

SCHEDULE IV**PART I****CLASS 1. DRY FORAGES AND ROUGHAGES****1.1**

Alfalfa-grass hay sun-cured ground (or Alfalfa-grass meal) (IFN 1-29-774) consists of the aerial part of a mixture of alfalfa and grass plants (predominantly alfalfa) that has been sun-cured and finely ground. It shall be labelled with guarantees for minimum crude protein, maximum crude fibre, maximum moisture, minimum alfalfa and minimum grass.

1.2

Alfalfa hay sun-cured ground (or Sun-cured alfalfa meal) (IFN 1-00-111) consists of the aerial part of the alfalfa plant, reasonably free of other crop plants, weeds and mold, that has been sun-cured and finely ground. It shall be labelled with guarantees for minimum crude protein, maximum crude fibre and maximum moisture.

1.3

Alfalfa leaves meal dehydrated (or Alfalfa leaf meal) (IFN 1-00-137) consists of leaves of alfalfa separated from the alfalfa plant that have been dried by thermal means and finely ground. It shall be reasonably free of other crop plants and weeds. It shall be labelled with guarantees for minimum crude protein, maximum crude fibre and maximum moisture.

1.4

Alfalfa meal dehydrated (IFN 1-00-025) consists of the aerial part of the alfalfa plant, reasonably free of other crop plants, weeds and mold, that has been finely ground and dried by thermal means. It shall be labelled with guarantees for minimum crude protein, maximum crude fibre and maximum moisture.

1.5

Alfalfa stems sun-cured ground (or Alfalfa stem meal) (IFN 1-00-165) consists of the finely ground sun-cured aerial part of the alfalfa plant from which the leaves have been removed. It shall be reasonably free of other crop plants and weeds. It shall be labelled with guarantees for minimum crude protein, maximum crude fibre and maximum moisture.

1.6

Grass-alfalfa hay sun-cured ground (or Grass-alfalfa meal) (IFN 1-29-775) consists of the aerial part of a mixture of grass and alfalfa plants (predominantly grass) that has been sun-cured and finely ground. It shall be labelled with guarantees for minimum crude protein, maximum crude fibre, maximum moisture, minimum alfalfa and minimum grass.

1.7

Cellulose powdered (or Cellulose) (IFN 1-15-514) is the purified, mechanically disintegrated polysaccharide consisting of glucose in a beta (1-4) linkage prepared by processing alpha cellulose obtained as a pulp from fibrous plant materials.

1.8

Cereals grass meal dehydrated (or Dehydrated cereal grass) (IFN 1-16-289) consists of the aerial part of a cereal grass, reasonably free of other crop plants, weeds and mold, that has been finely ground and dried by thermal means. It shall be labelled with guarantees for minimum crude protein, maximum crude fibre and maximum moisture.

1.9

Maize cobs, dehydrated, fine ground (or Corn cobs, dehydrated, fine ground or Fine grind maize cob meal or Fine grind corn cob meal) (IFN 1-02-781) consists of the entire corn cob that has been finely ground and dried by thermal means. It shall be labelled with guarantees for minimum crude protein, maximum crude fibre and maximum moisture.

1.10

Maize, cob fractions, screened (or Corn, cob fractions, screened or Maize cob fractions or Corn cob fractions) (IFN 1-02-779) consists of the hard woody, ring or beeswing fractions obtained by screening ground corn cobs. It shall be labelled with guarantees for minimum crude protein, maximum crude fibre and maximum moisture.

1.11

Oats hulls (IFN 1-03-281) consists of the outer coverings of threshed oats and any by-product obtained in the milling of table cereals or in the groating of oats, from clean oats and containing more than 22 per cent crude fibre. It shall be labelled with guarantees for minimum crude protein, maximum crude fibre and maximum moisture.

1.12

Oats groats by-product less than 22 per cent fibre (or Oat feed or Oat mill by-product) (IFN 1-03-332)

consists of the by-product obtained in the manufacture of oat groats, consisting of oat hulls and particles of the groat and containing not more than 22 per cent crude fibre. It shall be labelled with guarantees for minimum crude protein, maximum crude fibre and maximum moisture.

1.13

Peanut pods (or Peanut hulls) (IFN 1-08-028)

consists of the outer hull or the peanut shell. It shall be labelled with guarantees for minimum crude protein, maximum crude fibre and maximum moisture.

1.14

Peanut seed coats (or Peanut skins) (IFN 1-03-631)

consists of the outer covering of the peanut kernel, exclusive of hulls, as obtained in ordinary commercial processing. The product may contain broken peanut kernels. It shall be labelled with guarantees for minimum crude protein, maximum crude fibre and maximum moisture.

1.15

Rice hulls (IFN 1-08-075)

consists of the outer covering of the rice seed. It shall be labelled with guarantees for minimum crude protein, maximum crude fibre and maximum moisture.

1.16

Soybean seed coats (or Soybean hulls) (IFN 1-04-560)

consists of the outer covering of the soybean seed. It shall be labelled with guarantees for minimum crude protein, maximum crude fibre and maximum moisture.

1.17

Sunflower hulls (IFN 1-04-720)

consists of the outer covering of the sunflower seed. It shall be labelled with guarantees for minimum crude protein, maximum crude fibre and maximum moisture.

1.18

Artichoke, Jerusalem (or Helianthus tuberosus residue or Jerusalem artichoke, aerial part, residues)(IFN 1-19-121)

consists of the press extract obtained after removal of the sugars from the aerial part of Jerusalem Artichoke (Helianthus tuberosus) has been ensiled at pH 4.1 to 4.3. It shall be labelled with guarantees for maximum moisture, minimum crude protein and maximum crude fibre.

1.19

Walnut, persian, shells, ground (or Walnut shell meal) (IFN 1-18-668)

is obtained by drying and grinding the fibrous outer covering (shell) of the walnut nut. It shall be free from foreign matter. It shall be labelled with guarantees for minimum crude protein, maximum crude fibre and maximum moisture.

1.20

Citrus pomace without fines dehydrated (or Dried citrus pulp) (IFN 4-01-237)

consists of the dry product obtained after grinding peel, residue of the inside portions, and occasional cull fruits of the citrus family. It may contain other citrus by-products in such amounts as may unavoidable occur in good manufacturing practices. It may also contain calcium oxide or calcium hydroxide as an aid in processing. If it bears a name descriptive of kind, it shall correspond thereto. It shall be labelled with guarantees for minimum crude protein, maximum crude fibre, maximum moisture and maximum calcium.

1.21

Ground debarked aspen (IFN -- -- --)

consists of grade #2 Aspen material derived from the sawing of green virgin (no pesticides used in culture) Aspen populus which has been debarked, and dried at a high temperature (exit temperature - 130°F). It shall be labelled with guarantees for maximum moisture, maximum crude fiber and maximum ash.

1.22

Buckwheat hulls (IFN 1-12-238)

consists primarily of the outer covering of the buckwheat obtained in the milling of buckwheat flour. It shall be labelled with guarantees for minimum crude protein, maximum crude fibre, and maximum moisture.

1.23

Cottonseed Hulls (or Cotton hulls) (IFN 1-01-599)

consists primarily of the outer covering of the cotton seed. It shall be labelled with guarantees for minimum crude protein, maximum crude fibre and maximum moisture.

1.24

Yucca Mohave Pulp, dehydrated (or Yucca Schidigera Pulp, dehydrated) (IFN--)

consists of the dried fibrous residue of the aerial part of the Yucca plant from which the sap has been extracted. It shall be labelled with guarantees for maximum % moisture, minimum % crude protein, maximum % crude fibre and maximum % acid detergent

fibre.

1.25

Barley Grass Powder

consists of barley (*Hordeum vulgare*) harvested from the field to include the stems and leaves of the pre-flowering plant. It is dried to a maximum of 7% moisture by heat assisted air dryers. The product is ground. It shall be labelled with guarantees for minimum crude protein, maximum crude fibre, and maximum moisture.

1.26

Alfalfa Cubes dehydrated (or Dehydrated Alfalfa Cubes, or Cubed Alfalfa Dehydrated or Alfalfa cubes)

consists of the aerial part of the Alfalfa (Lucerne) plant, reasonably free of other crop plants, weeds and mold, that has been chopped, dried by thermal means, and cubed. It shall be labelled with guarantees for minimum crude protein, maximum crude fibre, and maximum moisture. If any pelleting aid(s) is used, the common name or names shall be indicated on the label.

1.27

Alfalfa-Maize Cubes Dehydrated (or Alfalfa-Corn Cubes Dehydrated, or Cubed Alfalfa-Corn Dehydrated, or Corn-Alfalfa Cubes Dehydrated, or Cubed Corn-Alfalfa Dehydrated, or Alfalfa Maize cubes, or Alfalfa Corn cubes.)

Consists of the aerial parts of the Alfalfa (Lucerne) and Maize (*Zea mays*) plants, reasonably free of other crop plants, weeds and mold, that has been chopped, dried by thermal means, and cubed. It shall be labelled with guarantees for minimum crude protein, maximum crude fibre, maximum moisture, minimum alfalfa and minimum maize. If any pelleting aid(s) is used, the common name or names shall be indicated on the label.

1.28

Alfalfa-timothy Cubes, dehydrated (or timothy-alfalfa cubes, dehydrated, or cubed alfalfa-timothy, dehydrated, or cubed timothy-alfalfa, dehydrated, or alfalfa timothy cubes, or timothy alfalfa cubes)

Consists of the aerial parts of the Alfalfa (*Medicago sativa*) and Timothy (*Phleum pratense*) plants, reasonably free of other crop plants, weeds and mold and foreign material, that has been chopped, dried by thermal means, and cubed. It shall be labelled with guarantees for minimum crude protein, maximum crude fibre, maximum moisture, minimum alfalfa and minimum timothy. If any pelleting aid(s) is (are) used, the common name or names shall be indicated on the label.

CLASS 2. PASTURE, RANGE PLANTS AND FORAGES FED GREEN

No entries

CLASS 3. SILAGES

No entries

CLASS 4. ENERGY FEEDS4.1 Cereal Grains**4.1.1**

Barley-cereals grain (or Barley mixed grain) (IFN 4-29-789)
consists of mixtures of grain traded on a sample basis. Barley is the predominant grain.

4.1.2

Barley grain (IFN 4-00-549)
consists of the entire seed of the barley plant.

4.1.3

Maize-cereals grains (or Corn-cereals grains or Cereals mixed grains) (IFN-4-29-790)
consists of mixtures of grain traded on a sample basis. Corn is the predominant grain.

4.1.4

Maize dent white grain (or Corn dent white grain) (IFN 4-02-928)
consists of the whole white corn kernel.

4.1.5

Maize dent yellow grain (or Corn dent yellow grain) (IFN 4-02-935)
consists of the whole yellow corn kernel.

4.1.6

Maize grain (or Corn grain) (IFN 4-02-879)
consists of the whole corn kernel.

4.1.7

Maize opaque 2 grain (high lysine) (or Corn opaque 2 grain (high lysine)) IFN 4-11-445)
consists of the whole opaque 2 corn kernel (high lysine).

4.1.8

Oats-cereals grain (IFN 4-29-791)
consists of mixtures of grain traded on a sample basis. Oats is the predominant grain.

4.1.9

Oats grain (IFN 4-03-309)
consists of the whole seed of the oat plant.

4.1.10

Oats wild-oats-cereals grain (or Mixed Feed Oats) (IFN 4-06-175)
means mixed feed oats referred to in the Off Grades of Grain and Grades of Screenings Order.

4.1.11

Rice grain (IFN 4-03-939)
consists of the whole seed from the rice plant.

4.1.12

Rye-cereals grain (or Rye mixed grain) (IFN 4-29-792)
consists of mixtures of grain traded on a sample basis. Rye is the predominant grain.

4.1.13

Rye grain (IFN 4-04-047)
consists of the whole grain of the rye plant.

4.1.14

Sorghum grain (IFN 4-04-383)
consists of the whole seed of the grain variety of the sorghum plant

4.1.15

Sorghum milo grain (or Milo)(IFN 4-04-444) consists of the whole seeds of the sorghum plant of the variety milo.

4.1.16

Wheat-cereals grain (IFN 4-29-793)

consists of mixtures of grain traded on a sample basis. Wheat is the predominant grain.

4.1.17

Wheat grain (IFN 4-05-211)

consists of the whole seed of the wheat plant.

4.1.19

Buckwheat grain (IFN -- --)

consists of the entire seed of the buckwheat plant.

4.1.21

Triticale grain (IFN -- --)

consists of the entire seed of the triticale plant Triticale hexaploide.

4.2 Milling By-Products

4.2.1

Barley mill run (or Barley mixed feed or Barley mill by-product) (IFN 4-00-523) consists of the entire offal from the milling of barley flour from clean barley and is composed of barley hulls and barley middlings.

4.2.2

Barley pearl by-product (or Barley feed) (IFN 4-00-548) consists of the entire by-product resulting from the manufacture of pearl barley from clean barley.

4.2.3

Maize bran (or Corn bran) (IFN 4-02-841) consists of the outer coating of the corn kernel with little or none of the starchy part or germ.

4.2.4

Maize ears ground (or Corn ears ground or Maize and cob meal or Corn and cob meal) (IFN 4-02-849) consists of the entire ground ear of corn, including the kernels, without husks, with no greater proportion of cob than occurs naturally in the ear.

4.2.5

Maize flour (or Corn flour) (IFN 4-08-024) consists of the fine sized hard flinty portions of ground corn containing little or none of the bran or germ.

4.2.6

Maize grain fines (or Corn grain fines or Maize feed meal or Corn feed meal) (IFN 4-02-880) consists of the fine siftings obtained from screened cracked corn, with or without its aspiration products added.

4.2.7

Maize grits (or Corn grits or Hominy grits) (IFN 4-02-886) consists of the medium sized hard flinty portions of ground corn containing little or none of the bran or germs.

4.2.8

Maize grits by-product (or Corn grits by-product or Hominy feed) (IFN 4-02-887) consists of a mixture of corn bran, corn germ and part of the starchy portion of either white or yellow corn kernels or mixture thereof, as produced in the manufacture of pearl hominy, hominy grits or table meal. It shall contain not less than 4 percent crude fat. If prefixed by the words "white" or "yellow", the product shall correspond thereto.

4.2.9

Maize extractives fermented condensed (or Corn extractives fermented condensed or Condensed fermented maize extractives or Condensed fermented corn extractives) (IFN 4-02-890) is obtained by the partial removal of water from the liquid resulting from steeping corn in a water and sulfur dioxide solution that is allowed to ferment by the action of naturally occurring lactic acid producing micro-organisms, as practised in the wet milling of corn. It shall be labelled with guarantees for minimum crude protein and minimum dry matter.

4.2.10

Oats groats (IFN 4-03-331) consists of cleaned oats without hulls.

4.2.11

Rice bran with germs (or Rice bran) (IFN 4-03-928) consists of the pericarp or bran layer and germ of rice, with only such quantity of hull fragments, chipped, broken, or brewer's rice, and calcium carbonate as is unavoidable in the regular milling of edible rice. It shall contain less than 13 percent crude fibre. It shall be labelled with a guarantee for maximum calcium when the calcium carbonate exceeds three per cent (i.e. Ca exceeds 1.2%).

4.2.12

Rye flour by-product less than 8.5 percent fibre (or Rye middlings) (IFN 4-04-031) consists of rye feed and rye red dog combined in the proportions obtained in the usual process of milling rye flour. It shall contain less than 8.5 percent crude fibre.

4.2.13

Soybean flour by-product (or Soybean mill feed) (IFN 4-04-594) consists of soybean hulls and the offal from the tail of the mill resulting from the manufacture of soy grits or flour. It shall be labelled with guarantees for minimum crude protein, maximum crude fibre and maximum moisture.

4.2.14

Wheat bran (IFN 4-05-190) consists of the coarse outer covering of the wheat kernel as separated from cleaned and scoured wheat in the usual process of commercial flour milling.

4.2.15Wheat flour less than 1.5 percent fibre (IFN 4-05-199)

consist principally of wheat flour together with fine particles of wheat bran, wheat germ and the offal from the "tail of the mill". It shall contain less than 1.5 percent crude fibre.

4.2.16Wheat flour by-product less than 7 percent fibre (or Wheat middlings) (IFN 4-05-201)

consists of a small proportion of fine bran particles, germ and a large proportion of floury endosperm particles as separated in the usual processes of commercial flour milling. It shall contain less than 7 percent crude fibre.

4.2.17Wheat flour by-product less than 9.5 percent fibre (or Wheat shorts) (IFN 4-05-205)

consists of the fine bran particles, germ and a small proportion of floury endosperm particles as separated in the usual processes of commercial flour milling. It shall contain less than 9.5 percent crude fibre.

4.2.18Wheat mill run less than 9.5 percent crude fibre (or Wheat mill run) (IFN 4-05-206)

consists of all parts of the wheat kernel, except flour, separated in the usual processes of commercial flour milling. The parts included are wheat bran, wheat shorts, and wheat middlings. It shall contain less than 9.5 percent crude fibre.

4.2.19Rice bran with germs, meal, solvent extracted (or Rice bran, solvent extract) (IFN 4-03-930)

consists of product obtained by removing part of the oil from rice bran by the use of solvents. It shall contain not less than 14 per cent crude protein and not more than 14 per cent crude fibre.

4.2.20Maize grain kibbled (or Kibbled corn or Corn, kibbled) (IFN 4-02-866)

consists of the dry product obtained by cooking cracked corn under steam pressure and extruding from an expeller or other mechanical pressure device.

4.2.21Rice groats, polished, broken (or Chipped rice or Broken rice or Brewer's rice)(IFN 4-03-932)

consists of the small fragments of rice kernels that have been separated from the larger kernels of milled rice.

4.2.23Buckwheat middlings (IFN -- --)

consists of the fine bran particles, germ and a small proportion of floury endosperm particles as separated in the usual processes of commercial buckwheat flour milling. It shall contain less than 10% crude fibre.

4.2.24Maize grain flaked (or Flaked corn)(IFN 4-02-859)

is obtained by running cracked corn which has been aspirated and properly tempered, over smooth flaking rolls and subsequently dried and cooled.

4.2.25Rye Flour (IFN -- --)

consists of the soft, finely ground meal obtained from the milling of rye grain. It consists essentially of the starch and gluten of the endosperm but may contain fine particles of the bran, germ and the offal from the "tail of the mill". It shall be labelled with a guarantee for maximum fibre.

4.2.26Feeding Oat Meal (or Oats cereal by-product less than 4% fibre) (IFN 4-03-303)

is obtained in the manufacture of rolled oat groats or rolled oats and consists of broken oat groats, oat groat chips, and floury portions of the oat groats, with only such quantity of finely ground oat hulls as is unavoidable in the usual process of commercial milling. It must not contain more than 4% crude fibre. It shall be labelled with guarantees for minimum crude protein, minimum crude fat, maximum crude fibre and maximum moisture.

4.3 Seed and Mill Screenings

4.3.1

Cereals grain screenings grade 1 (or No. 1 Feed screenings) (IFN 4-02-154)

means cereal grain screenings (ie from wheat, oats, rye, barley and tricale, solely or a mixture thereof) conforming to the No. 1 Feed Screenings standard referred to in the Off Grades of Grain and Grades of Screenings Order. If it bears a name descriptive of kind (eg wheat grain screenings) or form (ie pelleted) the product shall correspond thereto. If any pelleting aid(s) is used, the common name or names shall be indicated on the label.

4.3.2

Cereals grain screenings grade 2 (or No. 2 Feed screenings) (IFN 4-02-155)

means cereal grain screenings (ie from wheat, oats, rye, barley and tricale, solely or a mixture thereof) conforming to the No. 2 Feed Screenings standard referred to in the Off Grades of Grain and Grades of Screenings Order. If it bears a name descriptive of kind (eg wheat grain screenings) or form (ie pelleted) the product shall correspond thereto. If any pelleting aid(s) is used, the common name or names shall be indicated on the label.

4.3.3

Cereals grain screenings refuse (or Refuse screenings) (IFN 4-02-151)

means cereal grain screenings (ie from wheat, oats, rye, barley and tricale, solely or a mixture thereof) conforming to the refuse screenings standard referred to in the Off Grades of Grain and Grades of Screenings Order. If it bears a name descriptive of kind (eg wheat grain screenings) or form (ie pelleted) the product shall correspond thereto. If any pelleting aid(s) is used, the common name or names shall be indicated on the label.

4.3.4

Cereals grain screenings uncleaned (or Uncleaned screenings) (IFN 4-02-153)

means cereal grain screenings (ie from wheat, oats, rye, barley and tricale, solely or a mixture thereof) conforming to the uncleaned screenings standard referred to in the Off Grades of Grain and Grades of Screenings Order. If it bears a name descriptive of kind (eg wheat grain screenings) or form (ie pelleted) the product shall correspond thereto. If any pelleting aid(s) is used, the common name or names shall be indicated on the label.

4.3.5

Pulse grain screenings grade 1 (or No. 1 Feed screenings pulse grains)

means pulse grain screenings (ie from chickpeas, lentils, peas and beans, solely or a mixture thereof) conforming to the No. 1 Feed screenings standard referred to in the Off Grades of Grain and Grades of Screenings Order. If it bears a name descriptive of kind (eg lentil grain screenings) or form (ie pelleted) the product shall correspond thereto. If any pelleting aid(s) is used, the common name or names shall be indicated on the label.

4.3.6

Pulse grain screenings grade 2 (or No. 2 Feed screenings pulse grains)

means pulse grain screenings (ie from chickpeas, lentils, peas and beans, solely or a mixture thereof) conforming to the No. 2 Feed screenings standard referred to in the Off Grades of Grain and Grades of Screenings Order. If it bears a name descriptive of kind (eg lentil grain screenings) or form (ie pelleted) the product shall correspond thereto. If any pelleting aid(s) is used, the common name or names shall be indicated on the label.

4.3.7

Pulse grain screenings refuse (or Refuse screenings pulse grains)

means pulse grain screenings (ie from chickpeas, lentils, peas and beans, solely or a mixture thereof) conforming to the Refuse Screenings standard referred to in the Off Grades of Grain and Grades of Screenings Order. If it bears a name descriptive of kind (eg lentil grain screenings) or form (ie pelleted) the product shall correspond thereto. If any pelleting aid(s) is used, the common name or names shall be indicated on the label.

4.3.8

Pulse grain screenings uncleaned (or uncleaned screenings pulse grains)

means pulse grain screenings (ie from chickpeas, lentils, peas and beans, solely or a mixture thereof) conforming to the Uncleaned Screenings standard referred to in the Off Grades of Grain and Grades of Screenings Order. If it bears a name descriptive of kind (eg lentil grain screenings) or form (ie pelleted) the product shall correspond thereto. If any pelleting aid(s) is used, the common name or names shall be indicated on the label.

4.4 Molasses and Related Products

4.4.1

Beet Sugar Molasses (or Beet molasses) (IFN 4-30-289)

is a by-product of the manufacture or refining of sucrose from sugar beets. It shall be labelled with a guarantee for minimum total sugars expressed as invert.

4.4.2

Beet sugar pulp dehydrated (or Plain dried beet pulp) (IFN 4-00-669)

consists of the dried residue from sugar beets that have been cleaned and freed from crowns, leaves and sand and that have been extracted in the process of manufacturing sugar. It shall be labelled with guarantees for minimum crude protein, maximum moisture and maximum crude fibre.

4.4.3

Beet sugar pulp, molasses added dehydrated (or Dry molassed beet pulp)(IFN 4-00-672) consists of the dried residue from sugar beets that have been cleaned and freed from crowns, leaves and sand and which has been extracted in the process of manufacturing sugar to which has been added molasses. It shall be labelled with guarantees for minimum crude protein, minimum invert sugars, maximum crude fibre and maximum moisture.

4.4.4

Beet sugar molasses, soybean mill run dehydrated added (IFN 4-30-291)

consists of a free-flowing and friable dried molasses product made by dehydrating molasses that has been mixed with soybean mill run, an absorbent material. It shall be labelled with guarantees for minimum crude protein, minimum invert sugars, maximum crude fibre and maximum moisture.

4.4.5

Beet sugar molasses, com cob fractions dehydrated added (IFN 4-30-292)

consists of a free-flowing and friable dried molasses product made by dehydrating molasses that has been mixed with corn cob fractions, an absorbent material. It shall be labelled with guarantees for minimum crude protein, minimum invert sugars, maximum crude fibre and maximum moisture.

4.4.6

Sugarcane molasses (IFN 4-13-251)

is a by-product of the manufacture or refining of sucrose from sugarcane. It shall be labelled with a guarantee for minimum total sugars expressed as invert.

4.4.7

Sugarcane molasses distillers solubles condensed (or Molasses distillers condensed solubles) (IFN 4-04-697)

is obtained by condensing to a syrupy consistency the residue from the yeast fermentation of sugarcane molasses after the removal of alcohol by distillation. It shall be labelled with a guarantee for maximum moisture.

4.4.8

Sugarcane molasses, soybean mill run dehydrated added (IFN 4-16-831)

consists of a free flowing and friable dried molasses product made by dehydrating molasses that has been mixed with soybean mill run, an absorbent material. It shall be labelled with guarantees for minimum crude protein, minimum invert sugars, maximum crude fibre and maximum moisture.

4.4.9

Beet sugar pulp (or Plain beet pulp) (IFN 4000-671)

consists of the residue from sugar beets that have been cleaned and freed from crown, leaves and sand and that have been extracted in the process of manufacturing sugar. It shall be labelled with guarantees for minimum crude protein, maximum moisture and maximum crude fibre.

4.4.10

Sugarcane molasses, com cob fractions dehydrated added (IFN 4-30-479)

consists of a free flowing and friable dried molasses product made by dehydrating molasses that has been mixed with corn cob fractions, an absorbent material. It shall be labelled with guarantees for minimum crude protein, minimum invert sugars, maximum crude fibre and maximum moisture.

4.4.11

Sugarcane <molasses, sunflower hull dehydrated added (IFN -- -- --)

consists of a free flowing and friable dried molasses product made by dehydrating molasses that has been mixed with sunflower hulls, an absorbent material. It shall be labelled with guarantees for minimum crude protein, minimum invert sugars, maximum crude fibre and maximum moisture.

4.4.12

Malt Extract Syrup (IFN -- --)

is the human food grade product resulting from the multi-stage conversion of barley to produce a fully soluble syrup.

4.5 Animal and Vegetable Fats

4.5.1

Animal fat (or Feeding fat) (IFN 4-00-409)

consists of the fat obtained from the tissues of mammals or poultry or both. If the product bears a name descriptive of its kind or origin; eg. tallow, lard or grease, it shall correspond thereto. If an antioxidant(s) is used, the common name or names shall be indicated on the label. It shall be labelled with guarantees for maximum moisture, maximum insoluble matter, maximum unsaponifiable matter and maximum free fatty acid.

4.5.2

Animal vegetable fat (or Animal vegetable feeding fat) (IFN 4-12-249)

consists of the fat of mammals or poultry and vegetable fat in any combination. If an antioxidant(s) is used, the common name or names shall be indicated on the label. It shall be labelled with guarantees for maximum moisture, maximum insoluble matter, maximum unsaponifiable matter and maximum free fatty acid.

4.5.3

Canola oil low erucic acid low glucosinolates (or Canola oil) (IFN 4-06-144)

consists of the oil extracted from whole seeds of the species Brassica napus or Brassica rapa the oil component of which seed contains less than 2 percent erucic acid and the solid component of which seed contains less than 30 micromoles of any one or any mixture of 3-butenyl glucosinolate, 4-pentenyl glucosinolate, 2-hydroxy-3-butenyl glucosinolate and 2-hydroxy-4-pentenyl glucosinolate per gram of air dry, oil free solid (GLC method of the Canadian Grain Commission). It shall be refined, bleached and deodorized. It shall have a saponification value (milligrams potassium hydroxide per gram of oil) of not less than 182 and not more than 193. It shall have an erucic acid content of less than 2 percent (w/w) of the component fatty acids. If an antioxidant(s) is used, the common name or names shall be indicated on the label. It shall be labelled with guarantees for maximum moisture, maximum insoluble matter, maximum unsaponifiable matter, maximum free fatty acids and maximum erucic acid.

4.5.4

Coconut kernels with coats oil (or Coconut oil) (IFN 4-09-320)

consists of the oil extracted from the whole kernels of Cocos nucifera L. It consists predominantly of glyceride esters of fatty acids. If an antioxidant(s) is used, the common name or names shall be indicated on the label. It shall be labelled with guarantees for maximum moisture, maximum insoluble matter, maximum unsaponifiable matter and maximum free fatty acids.

4.5.5

Maize endosperm oil (or Corn endosperm oil or Maize oil or Corn oil) (IFN 4-02-852)

consists of the oil extracted from corn gluten. It consists predominantly of glyceride esters of fatty acids. If an antioxidant(s) is used, the common name or names shall be indicated on the label. It shall be labelled with guarantees for maximum moisture, maximum insoluble matter, maximum unsaponifiable matter and maximum free fatty acids.

4.5.6

Soybean seeds oil (or Oil of glycine max. (L) Merr. or Oil of Soya or Soya oil or Soy oil) (IFN 4-07-983)

consists of the oil from soybean seeds that are commonly processed for edible purposes. It consists predominantly of glyceride esters of fatty acids. If partially hydrogenated, it shall be so indicated on the label. If an antioxidant(s) is used, the common name or names shall be indicated on the label. It shall be labelled with guarantees for maximum moisture, maximum insoluble matter, maximum unsaponifiable matter and maximum free fatty acids.

4.5.7

Soybean lecithin (or Soy lecithin) (IFN 4-04-562)

is the product obtained from soybean oil by a degumming process. It contains lecithin, cephalin and inositol phosphatides together with glycerides of soybean oil and traces of tocopherols, glucosides and pigments. It shall be labelled with guarantees for maximum crude fat, maximum free fatty acids and maximum moisture.

4.5.8

Vegetable oil (IFN 4-05-077)

consists of the product of vegetable origin obtained by extracting the oil from seeds or fruits that are commonly processed for edible purposes. It consists predominantly of glyceride esters of fatty acids and contains no additions of free fatty acids or other material obtained from fats. If an antioxidant(s) is used, the common name or names shall be indicated on the label. It shall be labelled with guarantees for minimum total fatty acids, maximum moisture, maximum unsaponifiable matter and maximum insoluble matter.

4.5.9

Animal fat hydrolyzed (IFN 4-00-376)

consists of the dry residue obtained during the fat processing procedures commonly used in edible processing or soap making. It consists predominantly of fatty acids and must contain not less than 85 per cent total fatty acids, not more than 6 per cent unsaponifiable matter, and not more than 1 per cent insoluble matter. If an antioxidant(s) is used, the common name or names shall be indicated on the label. It shall be labelled with guarantees for minimum crude fat and maximum moisture.

4.5.10

Animal-plant distillers residue (or Animal vegetable fat residues) (IFN 4-30-432)

consists of a combination of still residues obtained from the distillation of animal and/or vegetable fat based fatty acids. It consists

predominantly of glyceride esters of fatty acids and may contain unconverted fat or oil, undistilled fatty acids and unsaponifiable matter. It shall be labelled with guarantees for maximum moisture, maximum insoluble matter, maximum unsaponifiable matter and maximum free fatty acids.

4.5.11

Acidulated soapstock (or Acidulated fatty acids) (IFN 4-18-661)

consists of the by-product of the refining of oil from oil seed crops, that has been acidulated and hot water washed to recover the fatty material from the water phase. It consists predominantly of fatty acids, phosphatides and triglycerides together with trace amounts of salt, phosphoric acid, oil and gums. If an antioxidant is used, the common name or names shall be indicated on the label. If it bears a name descriptive of kind, it shall correspond thereto. It shall be labelled with guarantees for maximum moisture, maximum insoluble matter, maximum unsaponifiable matter and maximum free fatty acids.

4.5.12

Calcium isobutyrate (IFN 4-18-973)

consists of the calcium salt of isobutyric acid. It shall be labelled with a statement indicating the equivalent minimum of the calcium salt of isobutyric acid. It shall be labelled with guarantees for minimum isobutyric acid and maximum moisture.

4.5.13

Calcium isovalerate (IFN 4-18-974)

consists of the calcium salt of isovaleric acid. It shall be labelled with a statement indicating the equivalent minimum of the calcium salt of isovaleric acid. It shall be labelled with guarantees for minimum isovaleric acid and maximum moisture.

4.5.14

Calcium 2-methylbutyrate (IFN 4-18-975)

consists of the calcium salt of 2-methylbutyric acid. It shall be labelled with a statement indicating the equivalent minimum of the calcium salt of 2-methylbutyric acid. It shall be labelled with guarantees for minimum 2-methylbutyric acid and maximum moisture.

4.5.15

Calcium n-valerate (IFN 4-18-977)

consists of the calcium salt of n-valeric acid. It shall be labelled with a statement indicating the equivalent minimum of the calcium salt of n-valeric acid. It shall be labelled with guarantees for minimum n-valeric acid and maximum moisture.

4.5.16

Glycerides hydrogenated (or Hydrogenated glycerides) is obtained by hydrogenation of animal, marine or vegetable oil glycerides. The source of the hydrogenated glycerides shall be indicated on the label. It shall be labelled with guarantees for maximum moisture, maximum insoluble matter, maximum unsaponifiable matter and maximum free fatty acids.

4.5.17

Cephalopod mollusc oil (IFN -- -- --)

consists of the oil extracted from the tissue of Mollusc. If the product bears a name descriptive of its kind (ie. liver) or origin, e.g. Squid, cuttlefish, octopus, etc., it shall correspond thereto. If an antioxidant(s) is used, the common name or names shall be indicated on the label. It shall be labelled with guarantees for maximum moisture, maximum insoluble matter, maximum unsaponifiable matter and maximum free fatty acids.

4.5.18

Partially hydrogenated animal fat (IFN -- -- --)

consists of animal fat to which hydrogen has been added under pressure to saturate some of the unsaturated fatty acids. If the product bears a name descriptive of its kind or origin; e.g. tallow, lard or grease it shall correspond thereto. If an antioxidant(s) is used, the common name or names shall be indicated on the label. It shall be labelled with guarantees for maximum moisture, maximum insoluble matter, maximum unsaponifiable matter, maximum free fatty acids and iodine value.

4.5.19

Hydrogenated vegetable oil (IFN -- -- --)

consists of distilled vegetable oil to which hydrogen has been added under pressure to saturate some of the unsaturated fatty acids. If the products bear a name descriptive of kind it shall correspond thereto. If an antioxidant(s) is used, the common name or names shall be indicated on the label. It shall be labelled with guarantees for maximum moisture, maximum insoluble matter, maximum unsaponifiable matter and maximum free fatty acids.

4.5.20

Wheat germ oil (IFN -- -- --)

consists of the oil extracted from wheat germ. It consists primarily of glyceride esters of fatty acids. If an antioxidant(s) is used, the common name(s) shall be indicated on the label. It shall be labelled with guarantees for maximum moisture, maximum insoluble matter, maximum unsaponifiable matter and maximum free fatty acids.

4.5.21

Flax oil (or Linseed oil) (IFN --)

consists of the oil extracted from flax seeds. It consists predominantly of glyceride esters of fatty acids and contains no additions of free fatty acids or other material obtained from fats. If an antioxidant (s) is used, the common name or names shall be indicated on

the label. It shall be labelled with guarantees for minimum total fatty acids, maximum free fatty acids, maximum moisture, maximum unsaponifiable matter and maximum insoluble matter.

4.5.22

Rice bran oil

consists of the oil extracted from rice bran. It consists predominantly of glyceride esters of fatty acids and shall not contain more than 1% insoluble impurities. It shall be labelled with guarantees for minimum total fatty acids, maximum unsaponifiable matter, maximum free fatty acids, maximum insoluble impurities and maximum moisture. If an antioxidant(s) is used, the common name(s) shall be indicated on the label.

4.5.23

Fish Oil (IFN :7-01-965)

consists of the oil obtained from the tissues of sound, undecomposed fish. If an antioxidant(s) is used, the common name(s) shall be indicated on the label. It shall be labelled with guarantees for maximum % moisture, minimum % crude fat , maximum % free fatty acids, minimum International Units of Vitamin A and minimum International Units of Vitamin D per kilogram.

4.6 Others

4.6.1

Bakery waste dehydrated (IFN 4-00-466)

consists of a mixture of bread, cookies, cake, crackers, flours and doughs that have been mechanically separated from non-edible material, artificially dried and ground. It shall be labelled with guarantees for minimum crude protein, maximum crude fibre, maximum moisture and maximum salt.

4.6.2

Cattle whey condensed (or Condensed whey) (IFN 4-01-180)

consists of the residue remaining after the removal of a portion of the moisture from whey by thermal means. It shall be labelled with guarantees for minimum crude protein, minimum lactose, maximum moisture, and minimum total solids.

4.6.3

Cattle whey cultured condensed (or Condensed cultured whey) (IFN 4-01-181)

is the residue obtained by partially removing water from lactic acid bacteria cultured whey. It shall be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable microbial cells."; or
«Ce produit est exempt d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes.»
 It shall also be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen and minimum total solids.

4.6.4

Cattle whey dehydrated (or Dried whey) (IFN 4-01-182)

consists of the residue remaining after the drying of or evaporating of whey by thermal means. It shall be labelled with guarantees for minimum crude protein, minimum lactose and maximum moisture.

4.6.5

Cattle whey low lactose dehydrated (or Dried whey product) (IFN 4-01-186)

consists of the residue obtained by drying whey by thermal means from which a portion of the lactose has been removed. It shall be labelled with guarantees for minimum crude protein, minimum lactose and maximum moisture.

4.6.6

Lactose C₁₂H₂₂O₁₁ (IFN 4-02-486)

is the disaccharide containing galactose and glucose. It shall be labelled with a guarantee for minimum lactose.

4.6.7

Cereals breakfast process residue (or Cereal-offal or Cereals food fines) (IFN 4-01-199)

consists of particles of breakfast cereals obtained as a by-product of their processing. It shall be labelled with guarantees for minimum crude protein, maximum crude fibre, maximum moisture and maximum salt.

4.6.8

Cornstarch (IFN 4-02-889)

is the granular polymer consisting of amylose and amylopectin which has been separated from the mature seed endosperm of corn.

4.6.9

Apple pomace dehydrated (or Dried apple pomace) (IFN 4-00-423)

consists of the sound, dried residue obtained by the removal of cider from apples. It shall be labelled with guarantees for minimum crude protein, maximum moisture and maximum crude fibre. It shall also be labelled with one or both of the following statements:
"Caution: Do not feed this product to poultry."; or «Précaution: Ne jamais servir ce produit aux volaille.»

4.6.10

Maize grain starch heat hydrolyzed (or Corn grain starch heat hydrolyzed or Malto dextrins) (IFN 4-08-023)

is the dried purified concentrated product of nutritive saccharides derived from the starch of corn and having a dextrose equivalent less than 20. It shall be labelled with a guarantee for maximum dextrose equivalent (as determined by A.O.A.C. method 31.245, 14th edition.)

4.6.11

Maize syrup (or Corn syrup) (IFN 4-20-104)

is the purified concentrated aqueous solution of nutritive saccharides obtained from corn starch and having a dextrose equivalent not less than 20. It shall be labelled with a guarantee for minimum dextrose equivalent (as determined by A.O.A.C. method 31.245, 14th edition.)

4.6.12

Maize syrup process residue (or Corn syrup process residue or Maize syrup refinery insolubles or Corn syrup refinery insolubles) (IFN 4-04-893)

consists predominantly of the fatty fraction of corn starch together with protein and residual carbohydrate obtained in the refining of corn syrup. It shall be labelled with guarantees for minimum crude fat, maximum ash and maximum moisture.

4.6.13

Potato process residue dehydrated (or Dried potato waste meal) (IFN 4-03-775) consists of the dried ground by-product of whole potatoes (culls), potato peelings, pulp, potato chips and off colour french fries obtained from the manufacture of processed potato products for human consumption. The product shall be free of all extraneous materials such as glass, metals, sand and dirt. The product shall not contain more than 3 percent hydrate of lime that may be added to aid in processing. It shall be labelled with guarantees for minimum crude protein, minimum crude fat, maximum crude fibre, maximum ash and maximum moisture.

4.6.14

Beet sugar (or Sucrose) (IFN 4-06-176) is a natural sweetener. It shall be labelled with guarantees for minimum principal sugar.

4.6.15

D-Glucose (or Dextrose, or Glucose,D-) (IFN 4-24-966) is a monosaccharide hexose. It shall be labelled with a guarantee for minimum glucose.

4.6.16

Honey bee honey (or Honey) (IFN 4-02-391) is a natural sweetener elaborated out of the nectar of flower blossoms in the honey sac of Apis mellifera. It shall be labelled with a guarantee for minimum invert sugar.

4.6.17

Sugarcane sugar (or Sucrose) (IFN 4-04-701) is a natural sweetener. It shall be labelled with guarantees for minimum principal sugar.

4.6.18

Cattle whey fresh (or Whey or Liquid whey) (IFN 4-08-134) is the product obtained as a fluid by separating the coagulum from milk, cream, skimmed milk or cheese. It shall be labelled with one or both of the following statements: "This product is free of antimicrobial activity and is not a source of viable microbial cells;" or «Ce produit est exempt d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes.» It shall also be labelled with guarantees for minimum protein, minimum lactose and minimum total solids.

4.6.19

Dextrin (IFN 4-32--157) is the dried product obtained from partial hydrolysis of the starch derived from corn, milo, potato, wheat, rice or sago.

4.6.20

Maize kemels heat processed (or Corn kernels heat processed, or Whole corn heat processed) (IFN 4-29-354) is the product resulting from heating whole corn kemels without removing any of the component parts. It shall be labelled with guarantees for minimum crude protein, maximum crude fat and maximum crude fibre.

4.6.21

Maize syrup dehydrated (or Corn syrup dehydrated or Dried corn syrup) (IFN 4-02-892) is the purified concentrated aqueous solution of nutritive saccharides obtained from corn starch having a dextrose equivalent of 20 or more. It shall be labelled with a guarantee for minimum dextrose equivalent (DE) (as determined by A.O.A.C. method 31.245, 14th edition).

4.6.22

Snack food waste dehydrated (IFN 4-12-175) consists of a mixture of potato chips, cheeses, pretzels and flours that have been mechanically separated from non-edible material, artificially dried and ground. The material may be obtained from food processing establishments. The waste product shall be picked up sufficiently often such that no decomposition is evident. It shall be labelled with guarantees for minimum crude protein, maximum crude fibre, maximum moisture and maximum salt.

4.6.23

Sugar foods process residue (or Sugar foods by-product) (IFN 4-20-865) consists of a mixture of sugar based food products such as candy, dry packaged drinks, dried gelatin mixes, and similar food products which are largely sugar, but excluding bakery by-products, which have been separated from non-edible packaging material, ground and mixed. The material may be obtained from food processing establishments. The waste product shall be picked up sufficiently often such that no decomposition is evident. It shall be labelled with a guarantee for minimum invert sugars.

4.6.24

Wheat starch (IFN 4-20-951) is the granular polymer consisting of amylose and amylopectin which has been separated from the mature seed endosperm of wheat.

4.6.25Fructose C₆H₁₂O₆ (IFN -- -- --)

is the monosaccharide derived from the chemical treatment of starch. It may contain one or both anomer forms of fructose; B-D-fructopyranose and B-D-fructofuranose and it is a sweetener. It shall be labelled with a guarantee for minimum percent fructose.

4.6.26Cattle whey solubles condensed modified (or Cattle whey solubles condensed) (IFN 4-01-188)

is the product obtained by concentrating the whey residue after removal of whey protein and partial removal of lactose, and modifying the sugar content so that there is a minimum of 0.3% nonlactose carbohydrate for each percent solids. It shall be labelled with guarantees for minimum crude protein, minimum lactose, maximum moisture and minimum total solids.

4.6.27Cattle whey and whey solubles, dehydrated (or Dried whey and whey solubles) (IFN -- -- --)

is the product obtained by mixing whey and whey solubles, which are then pasteurized, and spray dried. It shall be labelled with guarantees for minimum crude protein, minimum lactose and maximum moisture.

4.6.28Apple pomace, fresh (or Wet apple pomace) (IFN -- -- --)

consists of the sound residue obtained by the removal of cider from apples. It shall be labelled with guarantees for minimum crude protein, maximum moisture and maximum crude fiber. It shall also be labelled with one or both of the following statements:

"Caution: Do not feed this product to poultry." ; and/or «Précaution: Ne jamais servir ce produit aux volaille.»

4.6.29Apples, fresh crushed (or Fresh Crushed Apples) (IFN --)

consists of sound, properly ripened apples which have been washed, sorted and crushed in accordance with good manufacturing practices. All product must meet all standards for human consumption. It shall be labelled with one or both of the following statements: "Caution: Do not feed this product to poultry." and/or "Précaution: Ne jamais servir ce produit aux volaille".

4.6.30Apples, dehydrated, sliced, diced or ground (or dehydrated apples) (IFN --)

consists of sound, properly ripened apples which have been washed, mechanically peeled, cored, sorted, trimmed, cut to the desired size and properly dried to not more than 3.5% moisture by weight in accordance with good manufacturing practices. Product may or may not be treated with sodium sulfate (500-1500 mg/kg) or equivalent (erythorbic acid, citric acid or their salts). All product must meet all standards for human consumption. It shall be labelled with a guarantee for maximum % moisture. It shall also be labelled with one or both of the following statements:

"Caution: Do not feed this product to poultry." and/or "Précaution: Ne jamais servir ce produit aux volaille".

4.6.31Carrot root, fresh ground (or fresh carrots) (IFN --)

consists of sound carrot roots which have been washed and sorted in accordance with good manufacturing practices. All product must meet all standards for human consumption.

4.6.32Processed Cassava Root (or Tapioca or Cassava tubers, sun-cured and chipped) (IFN 4-18-896)

is the whole root chipped mechanically into small pieces and sun-dried on concrete surfaces for two to three days. It shall be free of sand and other debris except for that which occurs unavoidably as a result of good harvesting practices. The levels of HCN (Hydrogen cyanide) equivalent (HCN, linamarin and cyanohydrins combined) mg/kg shall not exceed 50 mg HCN equivalent/kg in the complete feed. It shall be labelled with one or both of the following statements: "This product is for use as an energy source in livestock feeds at a level not to exceed 40% of swine and cattle complete feeds, and 20 % of other livestock complete feeds"; and/or «Ce produit est destiné à être utilisé comme aliment énergétique pour le bétail, en quantité ne devant pas dépasser 40% de la ration totale des porcs et bovins, et 20 % de la ration totale des autres espèces de bétail.» This product shall also be labelled with guarantees for maximum moisture and maximum HCN equivalent mg/kg.

4.6.33Garden beet root, fresh (or fresh garden beets)

consists of sound roots of the garden beet plant, which have been washed and sorted in accordance with good manufacturing practices. All product must meet all standards for human consumption.

4.6.34Sweet potatoes, fresh (or Fresh sweet potatoes)

Consists of sound tuberous roots of the sweet potato plant (*Ipomoea batatas*), which have been washed and sorted in accordance with good manufacturing practices. All product must meet all standards for human consumption.

4.6.35Vegetable process residue, wet (or Wet vegetable process residue)

consists of the wet residue generated from the processing of washed, sorted vegetables for human consumption. It may contain any or all of the following: fresh, blanched or frozen vegetable by-products, excluding rotten vegetables. May include peelings, trimmings, off-coloured vegetables and other culls. It shall not contain waste by-products generated by the use of chemical processing aids unapproved for feed, e.g., flocculants, coagulants, anti-foaming agents, etc. The vegetables shall be picked up sufficiently often such that no decomposition is evident. If the product contains raw potatoes, it shall be labelled with the following statement in English or French or both official languages:

"It is recommended that whole raw potatoes in this ingredient be chopped as there is a potential choking hazard."

4.6.36Potatoes, cull and/or sound, fresh (or Cull and/or sound potatoes, fresh)

consists of fresh whole sound potatoes and/or potato culls pre-sorted to exclude rotten, sprouted or green potatoes. It may contain any or all of the following cull potatoes: cut or bruised potatoes, potatoes which are odd shaped or odd sized, hollow heart potatoes, or potatoes mechanically injured at harvest. It shall be free of soil and other debris, except for that which occurs unavoidably as a result of good harvesting practices. It shall not contain waste by-products generated with the use of chemical processing aids unapproved for feed, e.g., flocculants, coagulants, anti-foaming agents, etc. This feed is approved for use as an energy source in cattle diets. The potatoes shall be picked up sufficiently often such that no decomposition is evident. It shall be labelled with the following statement in English or French or both official languages:

"It is recommended that whole raw potatoes be chopped as there is a potential choking hazard."

4.6.37Potato process residue raw, wet (or Wet raw potato process residue)

consists of the wet residue generated from the manufacture of processed potato products for human consumption. It may contain any or all of the following: potato culls (pre-sorted to exclude rotten, sprouted or green potatoes), potato slivers, potato peels, dry starch, wet recovered starch, processed battered or unbattered potato products. The product shall not contain more than 3 percent hydrate of lime that may be added to aid in processing. It shall not contain waste by-products generated with the use of chemical processing aids unapproved for feed, e.g., flocculants, coagulants, anti-foaming agents, etc. This feed is intended for use as an energy source in cattle diets. The potatoes shall be picked up sufficiently often such that no decomposition is evident.

4.6.38Potato process residue heat-treated, wet (or Heat-treated potato process residue)

consists of the steamed or heat-treated residue generated from the manufacture of processed potato products for human consumption. It may contain any or all of the following: potato slivers, potato peels, heat-treated processed frozen battered or unbattered potato products pre-sorted to exclude rotten, green or sprouted potatoes. The product shall not contain more than 3 percent hydrate of lime that may be added to aid in processing. It shall not contain waste by-products generated with the use of chemical processing aids unapproved for feed, e.g., flocculants, coagulants, anti-foaming agents, etc. This feed is intended for use as an energy source in swine and cattle diets. The potatoes shall be picked up sufficiently often such that no decomposition is evident.

CLASS 5. PROTEIN FEEDS**5.1 Animal****5.1.1**Animal blood meal, conventional cooker dehydrated (IFN 5-26-005)

is a product obtained from clean, fresh blood, exclusive of all extraneous material such as hair, stomach contents or urine, except in such amounts as may occur unavoidably in good manufacturing practice. The moisture is removed from the crude blood by the conventional cooker method. It shall be labelled with guarantees for minimum crude protein and maximum moisture.

5.1.2Animal blood meal, flash or ring dehydrated (IFN 5-26-006)

is a product obtained from clean, fresh blood, exclusive of all extraneous material such as hair, stomach contents or urine, except in such amounts as may occur unavoidably in good manufacturing practice. The moisture is removed from the crude blood by dewatering and flash drying. The minimum available lysine (as determined by A.O.A.C. Method 43.224, 13th edition) shall be 80 percent. It shall be labelled with guarantees for minimum crude protein and maximum moisture.

5.1.3Animal blood meal, spray dehydrated (IFN 5-00-381)

is a product obtained from clean, fresh blood, exclusive of all extraneous material such as hair, stomach contents or urine, except in such amounts as may occur unavoidably in good manufacturing practice. The moisture is removed from the crude blood by spray drying. It shall be labelled with guarantees for minimum crude protein and maximum moisture.

5.1.4**Animal hair hydrolyzed (or Hydrolyzed hair)** (IFN 5-08-997)

is a product obtained from clean, undecomposed hair by heat and pressure to produce a product suitable for animal feeding. It shall be labelled with guarantees for minimum crude protein and minimum pepsin digestible protein (as determined by A.O.A.C. method 7.048, 13th edition).

5.1.5**Animal meat by-products fresh (or Meat by-products)** (IFN 5-00-395)

are intended to be fed solely to mink and foxes, and consists of the non-rendered, clean undecomposed parts, other than meat, derived from slaughtered mammals, exclusive of extraneous material such as hair, horns, bones, teeth, hoofs and stomach and intestine contents except in such amounts as may occur unavoidably. If it bears a name descriptive of kind, it shall correspond thereto. It shall be labelled with guarantees for minimum crude protein, minimum pepsin digestible protein (as determined by A.O.A.C. method 7.053, 14th edition), maximum moisture, minimum fat and maximum ash.

5.1.6**Animal meat meal rendered (or meat meal)** (IFN 5-00-385)

is a product obtained by rendering animal tissues, exclusive of hair, hoof, horn, hide trimmings, manure and stomach contents except in such amounts as may occur unavoidably in good manufacturing practice. If it bears a name descriptive of kind, it shall correspond thereto. It shall not contain added blood meal. It shall be labelled with guarantees for minimum crude protein, minimum pepsin digestible protein (as determined by A.O.A.C. method 7.048, 13th edition), maximum moisture and maximum ash.

If the product contains "prohibited material" as set forth in Section 162(1) of the Health of Animals Regulations, it shall be labelled with the statement(s) required by the Minister in English and/or French "Do not feed to cattle, sheep, deer or other ruminants" and/or « Ne pas nourrir les bovins, les ovins, les chevreuils ni d'autres ruminants de ce produit »

5.1.7**Animal meat and bone meal rendered (or Meat and bone meal)** (IFN 5-00-388)

is a product obtained by rendering animal tissues, exclusive of hair, hoof, horn, hide trimmings, manure and stomach contents except in such amounts as may occur unavoidably in good manufacturing practice. If it bears a name descriptive of kind, it shall correspond thereto. It shall not contain added blood meal. It shall be labelled with guarantees for minimum crude protein, minimum pepsin digestible protein (as determined by A.O.A.C. method 7.048, 13th edition), maximum moisture, maximum ash and minimum phosphorus.

If the product contains "prohibited material" as set forth in Section 162(1) of the Health of Animals Regulations, it shall be labelled with the statement(s) required by the Minister in English and/or French "Do not feed to cattle, sheep, deer or other ruminants" and/or « Ne pas nourrir les bovins, les ovins, les chevreuils ni d'autres ruminants de ce produit »

5.1.8**Animal tankage rendered (or Feeding tankage)** (IFN 5-00-386)

is a product obtained by rendering animal tissues, including blood, exclusive of hair, hoof, horn, hide trimmings, manure and stomach contents except in such amounts as may occur unavoidably in good manufacturing practice. If it bears a name descriptive of kind, it shall correspond thereto. It shall be labelled with guarantees for minimum crude protein, minimum pepsin digestible protein (as determined by A.O.A.C. method 7.048, 13th edition), maximum moisture and maximum ash.

If the product contains "prohibited material" as set forth in Section 162(1) of the Health of Animals Regulations, it shall be labelled with the statement(s) required by the Minister in English and/or French "Do not feed to cattle, sheep, deer or other ruminants" and/or « Ne pas nourrir les bovins, les ovins, les chevreuils ni d'autres ruminants de ce produit »

5.1.9**Animal tankage with bone meal rendered (or Feeding meat and bone tankage)** (IFN 5-00-387)

is a product obtained by rendering animal tissues, including blood, exclusive of hair, hoof, horn, hide trimmings, manure and stomach contents except in such amounts as may occur unavoidably in good manufacturing practice. If it bears a name descriptive of kind, it shall correspond thereto. It shall be labelled with guarantees for minimum crude protein, minimum pepsin digestible protein (as determined by A.O.A.C. method 7.048, 13th edition), maximum moisture, maximum ash and minimum phosphorus.

If the product contains "prohibited material" as set forth in Section 162(1) of the Health of Animals Regulations, it shall be labelled with the statement(s) required by the Minister in English and/or French "Do not feed to cattle, sheep, deer or other ruminants" and/or « Ne pas nourrir les bovins, les ovins, les chevreuils ni d'autres ruminants de ce produit »

5.1.10**Poultry by-products fresh (or Poultry by-products or Poultry residue)** (IFN 5-03-800)

are intended to be fed solely to mink and foxes, and consists of the non-rendered, clean undecomposed parts, of carcasses of slaughtered poultry, exclusive of excreta, stomach and intestine contents and foreign matter except in such amounts as may occur unavoidably in good manufacturing practice. It shall be labelled with guarantees for minimum crude protein, minimum pepsin digestible protein (as determined by A.O.A.C. method 7.053, 14th edition), minimum fat, maximum moisture and maximum ash.

5.1.11Poultry by-product meal rendered (IFN 5-03-798)

is a product obtained by rendering parts of slaughtered poultry, exclusive of feathers except in such amounts as may occur unavoidably in good manufacturing practice. It shall be labelled with guarantees for minimum crude protein, minimum pepsin digestible protein (as determined by A.O.A.C. method 7.048, 13th edition), maximum moisture, minimum crude fat, maximum ash and maximum acid-insoluble ash.

5.1.12Poultry feathers meal hydrolyzed (or Feather meal or Hydrolyzed poultry feathers) (IFN 5-03-795)

is a product obtained by hydrolyzing feathers from slaughtered poultry, free of additives or accelerators. It shall be labelled with guarantees for minimum crude protein, minimum pepsin digestible protein (as determined by A.O.A.C. method 7.048, 13th edition) and maximum moisture.

5.1.13Eggs without shells dehydrated (or Powdered egg or Spray dried whole egg) (IFN 5-01-214)

is the product obtained by spray drying eggs, exclusive of the shell, except in such amounts as may occur unavoidably in good manufacturing practice. It shall contain less than 0.5 per cent of a conditioning agent to reduce caking and improve flowability. The name of any conditioning agent shall be shown on the label. If an antioxidant(s) is used, the common name or names shall be indicated on the label. It shall be labelled with guarantees for minimum crude protein, maximum crude fat, maximum ash and maximum moisture.

5.1.14Cattle buttermilk dehydrated (or Dried buttermilk) (IFN 5-01-160)

is composed of the residue obtained by drying buttermilk by thermal means. It shall be labelled with guarantees for minimum crude protein, minimum crude fat, maximum moisture and maximum ash.

5.1.15Cattle milk dehydrated (or Dried whole milk) (IFN 5-01-167)

is the product obtained by drying whole milk. It shall be labelled with guarantees for minimum crude protein, minimum crude fat, maximum lactose and maximum moisture.

5.1.16Cattle skim milk dehydrated (or Dried skimmed milk) (IFN 5-01-175)

is composed of the residue obtained by drying defatted milk by thermal means. It shall be labelled with guarantees for minimum crude protein and maximum moisture.

5.1.17Cattle whey protein dehydrated (or Dried whey protein concentrate) (IFN 5-06-836)

is the product obtained by partial removal of water, lactose and minerals from whey by ultra-filtration followed by subsequent dehydration of the residue. It shall contain not less than 25 percent crude protein. It shall be labelled with guarantees for minimum crude protein, maximum lactose, maximum crude fat, maximum ash and maximum moisture.

5.1.18Casein acid precipitated dehydrated (or Casein) (IFN 5-01-162)

is the solid residue obtained by acid or rennet coagulation of defatted milk. It shall contain not less than 80 percent crude protein. It shall be labelled with guarantees for minimum crude protein, maximum crude fat, maximum ash and maximum moisture.

5.1.19Sodium caseinate (IFN 5-19-650)

is the sodium salt of casein obtained by protein precipitation of a casein suspension with sodium hydroxide. It shall be labelled with guarantees for minimum crude protein, maximum sodium, maximum crude fat, maximum ash and maximum moisture.

5.1.20Animal blood plasma spray dehydrated (or Animal blood serum spray dehydrated or Dried animal blood plasma or Dried animal blood serum) (IFN 5-00-382)

is the spray dried plasma fraction obtained from clean, fresh, blood exclusive of all extraneous material such as hair, stomach contents, or urine, except in such amounts as may occur unavoidably in good manufacturing practice. It shall be labelled with guarantees for minimum crude protein, maximum moisture, maximum ash, and maximum sodium.

5.1.21Animal meat solubles dehydrated (or Lard water dehydrated or Dried lard water) (IFN 5-00-393)

is the by-product of prime steam lard which comes from the heat hydrolysis of the connective tissue in fat and is obtained by spray drying the defatted water extract from the production of lard exclusive of extraneous material such as hair, hoof, horn, hide, bones, manure and stomach contents. If it bears a name descriptive of kind, it shall correspond thereto. It shall not contain less than 70 per cent crude protein. It shall be labelled with guarantees for minimum crude protein, maximum crude fat, maximum ash and maximum moisture. If the product contains "prohibited material" as set forth in Section 162(1) of the Health of Animals Regulations, it shall be labelled with the statement(s) required by the Minister in English and/or French "Do not feed to cattle, sheep, deer or other ruminants" and/or « Ne pas nourrir les bovins, les ovins, les chevreuils ni d'autres ruminants de ce produit »

5.1.22

Animal skin fleshing hydrolysed rendered dehydrated (or Dried fleshings hydrolysate) (IFN 5-08-094)

is the defatted, strained and neutralized product obtained by acid hydrolysis of the flesh from fresh or salted hides. If it bears a name descriptive of kind, it shall correspond thereto. It shall be labelled with guarantees for minimum crude protein, maximum crude fat, maximum sodium and maximum moisture.

If the product contains "prohibited material" as set forth in Section 162(1) of the Health of Animals Regulations, it shall be labelled with the statement(s) required by the Minister in English and/or French "Do not feed to cattle, sheep, deer or other ruminants" and/or « Ne pas nourrir les bovins, les ovins, les chevreuils ni d'autres ruminants de ce produit »

5.1.23

Cattle cheese rind (or Cheese powder, or Cheese rind) (IFN 5-01-163)

is the product obtained by cooking cheese trimming devoid of fat other than milk fat. If it bears a name descriptive of kind, it shall correspond thereto. It shall be labelled with guarantees for minimum crude protein, maximum crude fat, maximum salt and maximum moisture.

5.1.24

Cattle cheese trimming dehydrated (IFN 5-32-189)

is the by-product obtained when cheese is trimmed for final packaging. If it bears a name descriptive of kind it shall correspond thereto. It shall be labelled with guarantees for minimum crude protein, maximum crude fat, maximum salt and maximum moisture.

5.1.25

Cattle milk protein dehydrated (or Dried milk protein) (IFN 5-08-044)

is the product obtained by drying the coagulated protein residues resulting from the controlled precipitation of casein, lactalbumin and minor milk proteins from defatted milk. It shall be labelled with guarantees for minimum crude protein, minimum crude fat, maximum lactose and maximum moisture.

5.1.26

Casein hydrolysed dehydrated (or Dried hydrolysed casein) (IFN 5-08-055)

is the residue obtained by drying the water soluble product resulting from the enzymatic digestion of casein. It shall contain not less than 74 per cent crude protein. It shall be labelled with guarantees for minimum crude protein, maximum ash and maximum moisture.

5.1.27

Swine Pancreas extract dehydrated (or Dry pancreas extract) (IFN -- -- --)

is the dried product obtained after solvent extraction and concentration of clean hog pancreas. The extraction is conducted to maintain the enzymatic activity present in the pancreas. The product shall be labelled with guarantees for maximum moisture and minimum crude protein. Enzyme activity shall be guaranteed where the product is to be sold for its enzyme activity.

5.1.28

Dairy food product dehydrated (or Dried dairy food product) (IFN -- -- --)

is the product obtained after drying the liquid fraction resulting from processing outdated dairy food products such as milk, cottage cheese, yogourt, etc. The waste dairy food products shall be picked up sufficiently often so that no decomposition is evident. The product shall be free from harmful microorganisms. It shall be label with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable microbial cells."; or «Ce produit est exempt d'activité antimicrobienne et n'est pas une source de cellules microbiennes vivantes.»

It shall also be labelled with guarantees for minimum crude protein, maximum crude fat, maximum moisture and maximum salt.

5.1.29

Animal digest condensed (or Animal digest) (IFN 5-06-935)

is the product resulting from chemical and/or enzymatic hydrolysis of clean and undecomposed animal tissue exclusive of all extrogenous material such as hair, stomach contents or urine, except in such amounts as may occur unavoidably in good manufacturing practice. If it bears a name descriptive of its kind or flavour, it must correspond thereto. It shall be labelled with guarantees for minimum crude protein and maximum moisture.

If the product contains "prohibited material" as set forth in Section 162(1) of the Health of Animals Regulations, it shall be labelled with the statement(s) required by the Minister in English and/or French "Do not feed to cattle, sheep, deer or other ruminants" and/or « Ne pas nourrir les bovins, les ovins, les chevreuils ni d'autres ruminants de ce produit »

5.1.30

Cattle whey solubles dehydrated (or dried whey solubles, or dry whey solubles) (IFN 4-01-189)

is obtained by drying the whey residue after removal of whey protein, with or without partial removal of lactose. It shall be labelled with guarantees for minimum crude protein, maximum percent lactose, maximum percent ash and maximum percent moisture.

5.1.31

Animal digest dehydrated (or Dried animal digest) (IFN -)

consists of the material which results from chemical land/or enzymatic hydrolysis of clean and undecomposed animal tissue which is

then dried. The animal tissue used shall be exclusive of hair, horns, teeth, hooves, manure and stomach contents except in such amounts as might occur unavoidably in good manufacturing practice. If it bears a name descriptive of kind it must correspond thereto. It shall be labelled with guarantees for minimum crude protein and maximum ash.

If the product contains "prohibited material" as set forth in Section 162(1) of the Health of Animals Regulations, it shall be labelled with the statement(s) required by the Minister in English and/or French "Do not feed to cattle, sheep, deer or other ruminants" and/or « Ne pas nourrir les bovins, les ovins, les chevreuils ni d'autres ruminants de ce produit »

5.1.32

Animal by-products, dehydrated (or Dried animal by-products)(IFN 5 -- --)

consists of the product obtained by rendering, clean parts, other than meat, derived from slaughtered mammals, exclusive of extraneous material such as hair, bones, teeth and hooves except in such amounts as may occur unavoidably in good manufacturing practices. If it bears a name descriptive of kind, it shall correspond thereto. It shall be labelled with guarantees for minimum crude protein and maximum ash.

If the product contains "prohibited material" as set forth in Section 162(1) of the Health of Animals Regulations, it shall be labelled with the statement(s) required by the Minister in English and/or French "Do not feed to cattle, sheep, deer or other ruminants" and/or "Ne pas nourrir les bovins, les ovins, les chevreuils ni d'autres ruminants de ce produit"

5.1.33

Cheese Product Dehydrated (or Dried Cheese Product) (IFN -- --)

is the dried product obtained by grinding and screening packaged and bulk cheese powders that have been separated from packaging materials. The cheeses must be picked up sufficiently often so that no decomposition is evident and shall be free of harmful microorganisms. It shall be labelled with guarantees for minimum crude protein, maximum crude fat, maximum salt and maximum moisture.

5.1.34

Poultry and Blood Digest (IFN --)

is the product resulting from chemical and/or enzymatic hydrolysis of clean and undecomposed poultry parts and blood, with or without feathers and exclusive of extraneous materials such as stomach contents and urine, except in such amounts as may occur unavoidably in good manufacturing practice. It shall be labelled with guarantees for minimum crude protein, minimum pepsin digestible protein (as determined by A.O.A.C. method 7.048, 14th edition), minimum crude fat, maximum ash and maximum moisture.

5.1.35

Cattle whey solubles on carrier, dehydrated or Dry whey solubles on carrier, or Dried whey solubles on carrier)(IFN-)

is obtained by combining whey residue remaining after removal of whey protein with or without partial removal of lactose, with suitable carrier. The combination is then dried. It shall be labelled with guarantees for minimum crude protein, maximum percent lactose, maximum percent ash and maximum percent moisture. The carrier(s) shall be stated on the label.

5.1.36

Feather and Hog Hair Meal (or Feather Meal with Hog Hair)

is the hydrolysed product consisting predominately of feathers from slaughtered poultry and shall contain not more than 15% clean, undecomposed hog hair. This product shall be free of additives or accelerators. It shall be labelled with guarantees for minimum crude protein, minimum pepsin digestible protein (as determined by A.O.A.C. method 7.048, 13th edition) and maximum moisture. It shall also be labelled with one or both of the following statement: "This product does not contain more than 15% clean, undecomposed hog hair."and/or " Ce produit ne contient pas plus de 15 % de poils de porc propres, non décomposés"

5.1.37

Animal blood cells, spray dehydrated (or Spray dried animal blood cells)

is a product obtained by centrifugation and removal of plasma from clean, fresh blood, exclusive of all extraneous material except in such amounts as may occur unavoidably in good manufacturing practice. The product is then spray dried. If it bears a name descriptive of kind, it shall correspond thereto. It shall be labelled with guarantees for minimum crude protein, maximum moisture, maximum ash, and maximum sodium.

5.1.38

Animal meat products, cooked (or Cooked meat products)

consists of mis-shapen, out of date or freezer-burnt cooked meat products manufactured for human consumption, or products sampled for quality control reasons, exclusive of all extraneous packaging material. The waste product shall be picked up daily or sufficiently often that no decomposition is evident. If an antioxidant(s) is used, the common name or names shall be indicated on the label. The product shall be labelled with the guarantees for minimum crude protein, minimum crude fat, maximum moisture and maximum sodium. It shall be labelled with the following statements, "For use in mink and fox feeds only". "Do not feed to cattle, sheep, deer or other ruminants."

5.2 Marine

5.2.1

Crustacean (crab/lobster) process residue meal (or Crab/lobster meal or Crustacean meal) (Formerly IFN 5-01-663) consists of the undecomposed ground dried waste of crab and /or lobster and contains the shell, viscera and part or all of the flesh. The product name shall be Crustacean meal or the major component (Crab or Lobster Meal) or both components (Crab and Lobster Meal). This product shall contain less than 7 percent salt (NaCl). If an antioxidant(s)/preservative(s) is used, the common name or names shall be indicated on the label. It shall be labelled with guarantees for minimum crude protein and maximum salt.

5.2.2

Fish hydrolyzed condensed (or Condensed fish protein digest) (IFN 5-27-466) consists of the condensed enzymatic digest of clean undecomposed whole fish or fish cuttings using the enzyme hydrolysis process. The product shall be free of bones, scales, and undigested solids with or without the extraction of part of the oil. It shall contain not less than 30 percent protein. If an antioxidant(s)/preservative(s) is used, the common name or names shall be indicated on the label. It shall be labelled with guarantees for minimum crude protein, maximum crude fat, maximum salt, maximum ash and maximum moisture. If it bears a name descriptive of kind, it shall correspond thereto.

5.2.3

Fish hydrolyzed dehydrated (or Dried fish protein digest) (IFN 5-27-466) consists of the dried enzymatic digest of clean undecomposed whole fish or fish cuttings using the enzyme hydrolysis process. The product shall be free of bones, scales and undigested solids with or without the extraction of part of the oil. It shall contain not less than 80 percent protein and not more than 10 percent moisture. If an antioxidant(s)/preservative(s) is used, the common name or names shall be indicated on the label. It shall be labelled with guarantees for minimum crude protein, maximum crude fat, maximum salt, maximum ash and maximum moisture. If the degree of fineness is stated, it shall conform thereto. If it bears a name descriptive of kind, it shall correspond thereto.

5.2.4

Fish meal (IFN 5-01-974) consists of clean dried ground tissues of undecomposed whole fish or fish cuttings or both. If an antioxidant(s)/preservative(s) is used, the common name or names shall be indicated on the label. It shall be labelled with guarantees for minimum crude protein, minimum salt, maximum salt, minimum crude fat, maximum crude fat, maximum ash and maximum moisture. If it bears a name descriptive of kind, it shall correspond thereto.

5.2.5

Fish meal with solubles (IFN 5-17-896) consists of clean, dried ground tissues of undecomposed whole fish or fish cuttings or both with fish solubles incorporated. If an antioxidant(s)/preservative(s) is used, the common name or names shall be indicated on the label. It shall be labelled with guarantees for minimum crude protein, minimum salt, maximum salt, minimum crude fat, maximum crude fat, maximum ash and maximum moisture. If it bears a name descriptive of kind, it shall correspond thereto.

5.2.6

Fish protein concentrate solvent extracted (IFN 5-09-334) is prepared from eviscerated, partially deboned, clean undecomposed fish which is ground, solvent extracted and dried by thermal means with or without the extraction of part of the oil. It shall contain not less than 80 percent protein. If an antioxidant(s)/preservative(s) is used, the common name or names shall be indicated on the label. It shall be labelled with guarantees for minimum crude protein, maximum crude fat, maximum salt, maximum ash and maximum moisture. If the degree of fineness is stated, it shall conform thereto. If it bears a name descriptive of kind, it shall correspond thereto.

5.2.7

Fish meal mechanical extracted (IFN 5-01-977) consists of clean, dried ground tissues of undecomposed whole fish or fish cuttings or both after the extraction of the oil by a mechanical process. If an antioxidant(s)/preservative(s) is used, the common name or names shall be indicated on the label. It shall be labelled with guarantees for minimum crude protein, minimum salt, maximum salt, minimum crude fat, maximum crude fat, maximum ash and maximum moisture. If it bears a name descriptive of kind, it shall correspond thereto.

5.2.8

Fish solubles condensed (IFN 5-01-969) is obtained by condensing the aqueous portion (stickwater) of the mixture resulting from pressing the oil from the fish. If an antioxidant(s)/preservative(s) is used, the common name or names shall be indicated on the label. It shall be labelled with guarantees for minimum crude protein, maximum crude fat, maximum calcium, maximum salt and maximum moisture.

5.2.9

Fish solubles dehydrated (IFN 5-01-971) is obtained by dehydrating the aqueous portion (stickwater) of the mixture resulting from pressing the oil from the fish. If an antioxidant(s)/preservative(s) is used, the common name or names shall be indicated on the label. It shall be labelled with guarantees for minimum crude protein, maximum crude fat, maximum calcium, maximum salt and maximum moisture.

5.2.10

Shrimp process residue meal (or Shrimp meal) (IFN 5-04-226)

consists of the whole undecomposed ground dried waste of shrimp and contains parts of shrimp or whole shrimp. This product shall contain less than 7 percent salt (NaCl). If an antioxidant(s)/preservative(s) is used, the common name or names shall be indicated on the label. It shall be labelled with guarantees for minimum crude protein and maximum salt.

5.2.11

Fish autolysed dehydrated (or Dried fish autolysed) (IFN 5-18-662)

consists of the dried enzymatic digest of clean undecomposed fish cuttings using an enzyme autolysis process. The product shall be free of bones, scales and undigested solids with or without the extraction part of the oil. It shall not contain less than 70 per cent protein. If an antioxidant(s)/preservative(s) is used, the common name or names shall be indicated on the label. It shall be labelled with guarantees for minimum crude protein, minimum crude fat, maximum crude fat, minimum salt, maximum salt, maximum ash and maximum moisture.

5.2.12

Clam process residue meal (or Clam powder, or clam meal) (IFN - - -)

consists of the undecomposed ground dried waste of clam and contains the shell, viscera and part or all of the flesh. This product shall contain less than 7 percent salt (NaCl). If an antioxidant(s)/preservative(s) is used, the common name or names shall be indicated on the label. It shall be labelled with guarantees for minimum crude protein, maximum moisture, and maximum salt.

5.2.13

Fish autolysate, condensed (or Fish silage) (IFN - -)

is the condensed enzymatic digest of clean undecomposed whole fish or fish cuttings or both using an enzyme autolysis process. If an antioxidant(s)/preservative(s) is used, the common name or names shall be indicated on the label. It shall be labelled with guarantees for minimum crude protein, minimum salt, maximum salt, minimum crude fat, maximum crude fat, maximum ash, and maximum moisture. If it bears a name descriptive of kind it shall correspond thereto.

5.2.14

Fish meal condensed (IFN - -)

is the pasturized, condensed, clean ground tissues of undecomposed whole fish or fish cuttings or both. If an antioxidant(s)/preservative(s) is used, the common name or names shall be indicated on the label. It shall be labelled with guarantees for minimum crude protein, minimum salt, maximum salt, minimum crude fat, maximum crude fat, maximum ash and maximum moisture. If it bears a name descriptive of kind, it shall correspond thereto.

5.2.15

Fish Spawn dehydrated (or Spawn powder, or dry spawn) (IFN - - -)

consists of the ground, dried spawn of fish origin. This product shall contain less than 7 percent salt (NaCl). If the product bears a name descriptive of its origin; e.g. tuna, etc., it shall correspond thereto. If an antioxidant(s)/preservative(s) is used, the common names shall be indicated on the label. It shall be labelled with guarantees for minimum crude protein, maximum moisture, and maximum salt.

5.3 Seed from Plants**5.3.1**

Bean navy seeds heat processed (or White beans) (IFN 5-29-785)

is the product resulting from heating whole navy beans Phaseolus vulgaris without removing any of the component parts. It shall be labelled with guarantees for minimum crude protein, maximum crude fibre and maximum moisture.

5.3.2

Broadbean seeds (or Faba beans or Field beans or Horse beans) (IFN 5-09-262)

consists of the entire seed of the faba bean plant Vicia faba.

5.3.3

Canola meal prepress solvent extracted low erucic acid low glucosinolates (or Canola meal) (IFN 5-06-145)

consists of the meal obtained after the removal of most of the oil, by a prepress solvent extraction process, from whole seeds of the species Brassica napus, Brassica rapa or Brassica juncea, the oil component of which seed contains less than 2 percent erucic acid and the solid component of which seed contains less than 30 micromoles of glucosinolates per gram of air dry, oil free solid (GLC method of the Canadian Grain Commission). This product shall contain less than 30 micromoles of glucosinolates per gram of dried meal, and less than 5 micromoles of allyl glucosinolate per gram of dried meal. It shall be labelled with guarantees for minimum crude protein, maximum crude fat, maximum crude fibre, maximum moisture, maximum erucic acid and maximum glucosinolates.

5.3.4

Canola meal solvent extracted low erucic acid low glucosinolates (or Canola meal) (IFN 5-06-146)

consists of the meal obtained after the removal of most of the oil, by a direct solvent extraction process, from whole seeds of the species Brassica napus, Brassica rapa, or Brassica juncea, the oil component of which seed contains less than 2 percent erucic acid and the solid component of which seed contains less than 30 micromoles of glucosinolate per gram of air dry, oil free solid (GLC method of the Canadian Grain Commission). This product shall contain less than 30 micromoles of glucosinolates per gram of dried meal, and less than 5 micromoles of allyl glucosinolate per gram of dried meal. It shall be labelled with guarantees for minimum crude protein, maximum crude fat, maximum crude fibre, maximum moisture, maximum erucic acid and maximum glucosinolates.

5.3.5

Coconut kernels with coats meal mechanical extracted (or Coconut meal or Copra meal) (IFN 5-01-572)

consists of the ground residue after extraction of oil from the dried meat of the coconut by a mechanical extraction process. It shall be labelled with guarantees for minimum crude protein, maximum crude fat, maximum crude fibre and maximum moisture.

5.3.6

Coconut kernels with coats meal solvent extracted (or Coconut meal or Copra meal) (IFN 5-01-573)

consists of the ground residue after extraction of oil from the dried meat of the coconut by a solvent extraction process. It shall be labelled with guarantees for minimum crude protein, maximum crude fat, maximum crude fibre and maximum moisture.

5.3.7

Maize germs meal dry milled mechanical extracted (or Corn germ meal(dry milled)) (IFN 5-02-894)

consists of the commercial corn germ and all or part of the corn kernel remaining after removal of the oil by a mechanical extraction process. It shall be labelled with guarantees for minimum crude protein, maximum crude fat, maximum crude fibre and maximum moisture.

5.3.8

Maize gluten meal (or Corn gluten meal) (IFN 5-02-900)

consists of the dried residue from corn after the removal of the larger part of the starch and germ and the separation of the bran by the process employed in the wet milling manufacture of corn starch or syrup or by enzymatic treatment of the endosperm. It may contain fermented corn extractives or corn germ meal. It shall be labelled with guarantees for minimum crude protein and maximum moisture.

5.3.9

Maize gluten with bran (or Corn gluten with bran or Corn gluten feed or Maize gluten feed) (IFN 5-02-903)

consists of that part of the commercial shelled corn that remains after extraction of the larger portion of the starch, gluten, and germ by the process employed in the wet milling manufacture of corn starch or syrup. It may contain fermented corn extractives or corn germ meal. It shall be labelled with guarantees for minimum crude protein and maximum moisture.

5.3.10

Cotton, seeds (or Whole cottonseed) (IFN 5-01-614)

consists of the seed remaining after removal of fibre in the ginning process. It shall be labelled with guarantees for minimum crude protein, maximum crude fat, maximum crude fibre, maximum moisture and maximum gossypol.

5.3.11

Cotton seeds meal mechanical extracted (or Cottonseed meal) (IFN 5-01-609)

is the residual product obtained after extraction of most of the oil from cotton seeds by a mechanical extraction process. Various amounts of hulls are added to vary the protein content of the meal. It shall be labelled with guarantees for minimum crude protein, maximum crude fat, maximum crude fibre, maximum moisture and maximum gossypol.

5.3.12

Cotton seeds meal solvent extracted (or Cottonseed meal) (IFN 5-11-590) is the residual product obtained after extraction of most of the oil from cotton seeds by a solvent extraction process. Various amounts of hulls are added to vary the protein content of the meal. It shall be labelled with guarantees for minimum crude protein, maximum crude fat, maximum crude fibre, maximum moisture and maximum gossypol.

5.3.13

Flax seeds ground (IFN 5-30-286) is ground whole flaxseed.

5.3.14

Flax seeds meal mechanical extracted (or Linseed meal or Linseed oilcake meal) (IFN 5-30-287) is the meal obtained after the removal of some or most of the oil from whole flax seeds by a mechanical extraction process. It shall be labelled with guarantees for minimum crude protein, maximum crude fat, maximum crude fibre and maximum moisture.

5.3.15

Flax seeds meal solvent extracted (or Linseed meal or Linseed oilcake meal) (IFN 5-30-288) is the meal obtained after the removal of most of the oil from whole flax seeds by a solvent extraction process. It shall be labelled with guarantees for minimum crude protein, maximum crude fat, maximum crude fibre and maximum moisture.

5.3.16

Pea, field, protein product, spray dehydrated (or Pea protein) (IFN 5-17-726) is the product obtained after removal of most of the non-protein constituents from dried sound clean dehulled pea seeds Pisum sativum by wet milling followed by acid extraction, isoelectric precipitation and then spray drying. It shall be labelled with guarantees for minimum crude protein, maximum crude fat, maximum crude fibre, maximum ash and maximum moisture.

5.3.17

Pea field seeds (IFN 5-08-481) is the entire seed from the field pea plant Pisum sativum.

5.3.18

Peanut seeds without coats meal mechanical extracted (or Peanut meal) (IFN 5-03-649) is the ground residual product obtained after extraction of most of the oil from peanut kernels by a mechanical extraction process. It may contain such amounts of hulls as is unavoidable in good manufacturing practice. It shall be labelled with guarantees for minimum crude protein, maximum crude fat, maximum crude fibre and maximum moisture.

5.3.19

Peanut seeds without coats meal solvent extracted (or Peanut meal) (IFN 5-03-650) is the ground residual product obtained after extraction of most of the oil from peanut kernels by a solvent extraction process. It may contain such amounts of hulls as is unavoidable in good manufacturing practice. It shall be labelled with guarantees for minimum crude protein, maximum crude fat, maximum crude fibre and maximum moisture.

5.3.20

Safflower seeds meal mechanical extracted (or Safflower meal) (IFN 5-04-109) is the ground residue obtained after extracting the oil from whole safflower seed by a mechanical extraction process. It shall be labelled with guarantees for minimum crude protein, maximum crude fat, maximum crude fibre and maximum moisture.

5.3.21

Safflower seeds meal solvent extracted (or Safflower meal) (IFN 5-04-110) is the ground residue obtained after extracting the oil from whole safflower seeds by a solvent extraction process. It shall be labelled with guarantees for minimum crude protein, maximum crude fat, maximum crude fibre and maximum moisture.

5.3.22

Soybean flour mechanical extracted (or Soy flour) (IFN 5-12-177) is the finely powdered material resulting from the screened and graded product after removal of most of the oil from selected, sound, cleaned and dehulled soybeans by a mechanical extraction process. It shall contain less than 4 percent crude fibre. It shall be labelled with guarantees for minimum crude protein, maximum crude fat, maximum crude fibre and maximum moisture.

5.3.23

Soybean flour solvent extracted (or Soy flour) (IFN 5-04-593) is the finely powdered material resulting from the screened and graded product after removal of most of the oil from selected, sound, cleaned and dehulled soybeans by a solvent extraction process. It shall contain less than 4 percent crude fibre. It shall be labelled with guarantees for minimum crude protein, maximum crude fat, maximum crude fibre and maximum moisture.

5.3.24

Soybean protein concentrate (or Soy protein concentrate) (IFN 5-08-038) is the product obtained by removing most of the oil and water-soluble non-protein constituents from selected, sound, cleaned, dehulled

soybeans. It shall contain not less than 65 percent crude protein. It shall be labelled with guarantees for minimum crude protein, maximum crude fat, maximum crude fibre, maximum ash and maximum moisture.

5.3.25

Soybean protein isolate (or Soy protein isolate) (IFN 5-24-811)

is the dried product obtained by removing most of the non-protein constituents from selected, sound, cleaned, dehulled soybeans. It shall contain not less than 90 percent crude protein. It shall be labelled with guarantees for minimum crude protein, maximum ash and maximum moisture.

5.3.26

Soybean seeds heat processed (IFN 5-04-597)

is the product resulting from heating whole soybean seeds without removing any of the component parts. It shall be labelled with guarantees for minimum crude protein, maximum crude fat, maximum crude fibre and maximum moisture.

5.3.27

Soybean seeds meal solvent extracted (or Soybean meal) (IFN 5-04-604)

is the product obtained by grinding the flakes that remain after the removal of most of the oil from soybeans by a solvent extraction process. It shall contain less than 7 percent crude fibre. It may contain an approved conditioning agent, either nutritive or non-nutritive or any combination thereof, to reduce caking and improve flowability in an amount not to exceed that necessary to accomplish its intended effect but in no case shall the conditioning agent exceed 0.5 percent. The name of any conditioning agent shall be shown on the label. It shall be labelled with guarantees for minimum crude protein, maximum crude fat, maximum crude fibre and maximum moisture.

5.3.28

Soyflour chemically and physically modified (IFN 5-19-651)

is the product resulting from treating soyflour by chemical and physical (heat and pressure) means. It shall be labelled with guarantees for minimum crude protein, maximum crude fat, maximum crude fibre and maximum moisture.

5.3.29

Soybean seeds without hulls meal solvent extracted (or Dehulled soybean meal) (IFN 5-04-612)

is the product obtained by grinding the flakes remaining after the removal of most of the oil from dehulled soybeans by a solvent extraction process. It shall contain less than 3.3 percent crude fibre. It may contain an inert non-toxic conditioning agent, either nutritive or non-nutritive or any combination thereof, to reduce caking and improve flowability in an amount not to exceed that necessary to accomplish its intended effect but in no case shall the conditioning agent exceed 0.5 percent. The name of any conditioning agent shall be shown on the label. It shall be labelled with guarantees for minimum crude protein, maximum crude fat, maximum crude fibre and maximum moisture.

5.3.30

Sunflower seeds meal mechanical extracted (or Sunflower meal) (IFN 5-27-477)

is the meal obtained after the removal of most of the oil from whole sunflower seeds by a mechanical extraction process. It shall be labelled with guarantees for minimum crude protein, maximum crude fat, maximum crude fibre and maximum moisture.

5.3.31

Sunflower seeds meal solvent extracted (or Sunflower meal) (IFN 5-30-032)

is the meal obtained after the removal of most of the oil from whole sunflower seeds by a solvent extraction process. It shall be labelled with guarantees for minimum crude protein, maximum crude fat, maximum crude fibre and maximum moisture.

5.3.32

Sunflower seeds without hulls meal mechanical extracted (or Dehulled sunflower meal) (IFN 5-30-033)

is the meal obtained after the removal of most of the oil from sunflower seeds without hulls by a mechanical extraction process. It shall be labelled with guarantees for minimum crude protein, maximum crude fat, maximum crude fibre and maximum moisture.

5.3.33

Sunflower seeds without hulls meal solvent extracted (or Dehulled sunflower meal) (IFN 5-30-034)

is the meal obtained after the removal of most of the oil from sunflower seeds without hulls by a solvent extraction process. It shall be labelled with guarantees for minimum crude protein, maximum crude fat, maximum crude fibre and maximum moisture.

5.3.34

Wheat germ ground (IFN 5-05-218)

consists primarily of the germ of the wheat seed together with some bran and middlings or shorts. It shall be labelled with guarantees for minimum crude protein, maximum crude fat, maximum crude fibre and maximum moisture.

5.3.35

Palm kernels with coats oil residues, mechanical extracted (or Palm kernels expeller or Palm kernels with coats, mechanical extracted or Palm meal) (IFN 5-03-487)

is the ground product obtained after removal of most of the oil from whole seeds of Elaeis guineensis (Corozo oleifera) by a mechanical extraction process. It shall be labelled with guarantees for minimum crude protein, maximum crude fat, minimum crude fibre and

maximum moisture.

5.3.36

Soybean seeds extruded ground (or Ground extruded whole soybeans) (IFN 5-14-005)

is the meal product resulting from extrusion by friction heat and/or steam, whole soybeans without removing any of the component parts. It shall be labelled with a guarantee for minimum crude protein, maximum crude fat, maximum fibre and maximum moisture.

5.3.37

Sweet lupine seeds without hulls, ground (or Dehulled sweet lupine)(IFN 5-30-462)

consists of the ground seeds from species Lupinus labus, Lupinus angustifolius or Lupinus luteus containing less than 0.03 percent total alkaloids after the mechanical removal of the hulls. The species of seed must be listed after the name "Sweet lupine seeds without hulls, ground". It shall be labelled with guarantees for minimum crude protein, maximum crude fat, maximum crude fibre and maximum moisture.

5.3.38

Sweet lupine seeds solvent extracted (or Sweet lupine meal) (IFN 5-30-461)

is the product obtained by grinding the flakes that remain after the removal of most of the oil by a solvent extraction process from Sweet lupine seed of the species Lupinus albus, Lupinus angustifolius or Lupinus luteus which contain less than 0.03 percent total alkaloids. It shall contain less than 7 per cent crude fibre. The species of seed must be listed after the name "Sweet lupine seeds solvent extracted". It shall be labelled with guarantees for minimum crude protein, maximum crude fat, maximum crude fibre and maximum moisture.

5.3.39

Sweet lupine seeds ground (IFN 5-17-049)

is the ground whole seed of the species Lupinus albus, Lupinus angustifolius or Lupinus luteus. It shall contain less than 0.03 percent total alkaloids. The species of seed must be listed after the name "Sweet lupine seeds, ground". It shall be labelled with guarantees for minimum crude protein, maximum crude fat, maximum crude fibre and maximum moisture.

5.3.40

Maize zein (or Corn zein) (IFN - - -)

consist of the dried residue obtained from corn gluten meal by extraction with isopropanol. It shall be labelled with guarantees for minimum crude protein and maximum moisture.

5.3.41

Wheat gluten (IFN - - -)

is a dried residue obtained after the removal of the larger part of the starch from wheat flour. It shall be labelled with guarantees for minimum crude protein and maximum moisture.

5.3.42

Wheat gluten protein modified (or Modified wheat gluten)(IFN -- --)

consists of the product that results from treating wheat flour by chemical and physical means. It shall be labelled with guarantees for minimum crude protein, and maximum moisture.

5.3.43

Canola, whole low erucic acid, low glucosinolates (or Canola seed) (IFN -- --)

consists of the entire seed of the species Brassica napus or Brassica rapa, the oil component of which contains less than 2 percent erucic acid and the solid component of which contains less than 30 micromoles of any one or any mixture of 3-butenyl glucosinolate, 4-pentenyl glucosinolate, 2-hydroxy-3-butenyl glucosinolate and 2-hydroxy-4-pentenyl glucosinolate per gram of air dry, oil free solid (GLC method of the Canadian Grain Commission). The dried meal produced from this product shall contain less than 30 micromoles of glucosinolates per gram. It shall be labelled with guarantees for minimum crude protein, maximum crude fat, maximum crude fibre, maximum moisture, maximum erucic acid and maximum glucosinolates.

5.3.44

Pea Meal (IFN -- --)

is the product obtained by grinding cleaned whole pea seeds Pisum sativum. It shall be labelled with guarantees for minimum crude protein, maximum crude fat, maximum crude fibre, maximum ash and maximum moisture.

5.3.45

Soybean Feed, Solvent Extracted (or Soybean Feed)

is the product remaining after partial removal of protein and nitrogen free extract from dehulled solvent extracted soybean flakes. It shall be labelled with guarantees for minimum crude protein, maximum crude fat, maximum crude fibre and maximum moisture.

5.3.46

Crambe meal (Crambe meal, solvent extracted) IFN 5-30-280

Crambe meal solvent extracted consists of the meal obtained after the removal of most of the oil, either by pre-press solvent extraction or by solvent extraction alone, from the seed and hull of Crambe seeds (*Crambe abyssinica*). This product shall contain less than 60 micromoles of glucosinolates per gram of dried meal. It shall be labelled with guarantees for minimum crude protein, maximum crude fat, maximum crude fibre, maximum moisture, and maximum glucosinolates. It shall also be labelled with the following statements: "This ingredient is used or intended for use in the feed of feedlot (beef) cattle as a source of protein in an amount not to exceed 4.2 percent of the total ration. This feed is approved for feedlot (beef) cattle only."

5.3.47

Soybean seeds meal mechanical extracted (or Soybean meal) (IFN 5-04-600)

is the product obtained by grinding the flakes that remain after the removal of most of the oil from soybeans by a mechanical extraction process. It shall contain less than 7 percent crude fibre. It may contain an approved conditioning agent, either nutritive or non-nutritive or any combination thereof, to reduce caking and improve flowability in an amount not to exceed that necessary to accomplish its intended effect but in no case shall the conditioning agent exceed 0.5 percent. The name of any conditioning agent shall be shown on the label. It shall be labelled with guarantees for minimum crude protein, maximum crude fat, maximum crude fibre and maximum moisture.

5.3.48

Pulse seeds, pelleted pulse seeds (IFN—)

consist of whole or ground chickpeas, lentils, peas, beans, or a mixture thereof. If the label bears a name descriptive of kind or form, the product shall correspond thereto. It shall be labelled with guarantees for minimum crude protein, maximum fibre, maximum moisture. If any pelleting aid(s) is used, the name or names shall be indicated on the label.

5.4 Fermentation Products

5.4.1

Aspergillus niger fermentation extract dehydrated (or Dried Aspergillus niger fermentation extract)(IFN 5-06-148) is the dried product resulting from extracting and precipitating the water soluble materials from a fermentation conducted in accordance with good manufacturing practices. This fermentation is conducted for the production of enzymes, fermentation substances or other microbial metabolites using a non-pathogenic strain of the microorganism Aspergillus niger, which does not contain a novel trait. It shall be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable microbial cells"; or

«Ce produit est exempté d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes.»

It shall also be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen, maximum crude fibre and maximum moisture. Enzyme activity or nutrient metabolite level shall be guaranteed where the product is to be sold for its enzyme activity or nutrient metabolite.

5.4.2

Aspergillus niger fermentation product dehydrated (or Dried Aspergillus niger fermentation product)(IFN 5-06-151) is the product resulting from drying both solid and liquid materials from a fermentation conducted in accordance with good manufacturing practices. This fermentation is conducted for the production of enzymes, fermentation substances or other microbial metabolites using a non-pathogenic strain of the microorganism Aspergillus niger, which does not contain a novel trait. It shall be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable microbial cells"; or

«Ce produit est exempté d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes.»

It shall also be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen, maximum crude fibre and maximum moisture. Enzyme activity or nutrient metabolite level shall be guaranteed where the product is to be sold for its enzyme activity or nutrient metabolite.

5.4.3

Aspergillus niger fermentation product liquid (or Liquid Aspergillus niger fermentation product)(IFN 5-06-157) is the stabilized product of both solid and liquid materials from a fermentation conducted in accordance with good manufacturing practices. This fermentation is conducted for the production of enzymes, fermentation substances or other microbial metabolites using a non-pathogenic strain of the microorganism Aspergillus niger, which does not contain a novel trait. It shall be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable microbial cells"; or

«Ce produit est exempté d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes.»

It shall also be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen, maximum crude fibre and maximum moisture. Enzyme activity or nutrient metabolite level shall be guaranteed where the product is to be sold for its enzyme activity or nutrient metabolite.

5.4.4

Aspergillus niger fermentation solubles dehydrated (or Dried Aspergillus niger fermentation solubles)(IFN 5-29-781) is the product resulting from drying the liquid after the separation of suspended solids from a fermentation conducted in accordance with good manufacturing practices. This fermentation is conducted for the production of enzymes, fermentation substances or other microbial metabolites using a non-pathogenic strain of the microorganism Aspergillus niger, which does not contain a novel trait. It shall be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable cells"; or

«Ce produit est exempté d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes.»

It shall also be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen, maximum crude fibre and maximum moisture. Enzyme activity or nutrient metabolite level shall be guaranteed where the product is to be sold for its enzyme activity or nutrient metabolite.

5.4.5

Aspergillus niger fermentation solubles meal extracted dehydrated (IFN 5-18-670) is the product resulting from drying both the solid and liquid materials obtained from the fermentation of Aspergillus niger. This fermentation shall be conducted in accordance with good manufacturing practices for the production of enzymes, fermentation substances or other microbial metabolites using a non-pathogenic strain of Aspergillus niger, which does not contain a novel trait. It shall be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable microbial cells"; or

«Ce produit est exempté d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes.»

It shall also be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen, maximum crude fibre and maximum moisture. Enzyme activity or nutrient metabolite level shall be guaranteed where the product is to be sold for its enzyme activity or nutrient metabolite.

5.4.6

Aspergillus oryzae fermentation extract dehydrated (or Dried Aspergillus oryzae fermentation extract)(IFN 5-06-149) is the dried product resulting from extracting and precipitating the water soluble materials from a fermentation conducted in accordance with good manufacturing practices. This fermentation is conducted for the production of enzymes, fermentation substances or other microbial metabolites using a non-pathogenic strain of the microorganism Aspergillus oryzae, which does not contain a novel trait. It shall be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable microbial cells"; or

«Ce produit est exempté d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes.»

It shall also be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen, maximum crude fibre and maximum moisture. Enzyme activity or nutrient metabolite level shall be guaranteed where the product is to be sold for its enzyme activity or nutrient metabolite.

5.4.7

Aspergillus oryzae fermentation product dehydrated (or Dried Aspergillus oryzae fermentation product)(IFN 5-06-152) is the product resulting from drying both solid and liquid materials from a fermentation conducted in accordance with good manufacturing practices. This fermentation is conducted for the production of enzymes, fermentation substances or other microbial metabolites using a non-pathogenic strain of the microorganism Aspergillus oryzae, which does not contain a novel trait. It shall be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable microbial cells"; or

«Ce produit est exempté d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes.»

It shall also be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen, maximum crude fibre and maximum moisture. Enzyme activity or nutrient metabolite level shall be guaranteed where the product is to be sold for its enzyme activity or nutrient metabolite.

5.4.8

Aspergillus oryzae fermentation product liquid (or Liquid Aspergillus oryzae fermentation product)(IFN 5-06-158) is the stabilized product of both solid and liquid materials from a fermentation conducted in accordance with good manufacturing practices. This fermentation is conducted for the production of enzymes, fermentation substances or other microbial metabolites using a non-pathogenic strain of the microorganism Aspergillus oryzae, which does not contain a novel trait. It shall be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable microbial cells"; or

«Ce produit est exempté d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes.»

It shall also be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen, maximum crude fibre and maximum moisture. Enzyme activity or nutrient metabolite level shall be guaranteed where the product is to be sold for its enzyme activity or nutrient metabolite.

5.4.9

Aspergillus oryzae fermentation solubles dehydrated (or Dried Aspergillus oryzae fermentation solubles)(IFN 5-29-780) is the product resulting from drying the liquid after the separation of suspended solids from a fermentation conducted in accordance with good manufacturing practices. This fermentation is conducted for the production of enzymes, fermentation substances or other microbial metabolites using a non-pathogenic strain of the microorganism Aspergillus oryzae, which does not contain a novel trait. It shall be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable microbial cells"; or

«Ce produit est exempté d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes.»

It shall also be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen, maximum crude fibre and maximum moisture. Enzyme activity or nutrient metabolite level shall be guaranteed where the product is to be sold for its enzyme activity or nutrient metabolite.

5.4.10

Aspergillus oryzae fermentation solubles meal extracted dehydrated (IFN 5-18-671) is the product resulting from drying both the solid and liquid materials obtained from the fermentation of Aspergillus oryzae. This fermentation shall be conducted in accordance with good manufacturing practices for the production of enzymes, fermentation substances or other microbial metabolites using a non-pathogenic strain of Aspergillus oryzae, which does not contain a novel trait. It shall be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable microbial cells"; or

«Ce produit est exempté d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes.»

It shall also be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen, maximum crude fibre and maximum moisture. Enzyme activity or nutrient metabolite level shall be guaranteed where the product is to be sold for its enzyme activity or nutrient metabolite.

5.4.11

Bacillus acidopullulyticus fermentation extract dehydrated (or Dried Bacillus acidopullulyticus fermentation extract)(IFN 5-19-214) is the product resulting from drying the extracted or precipitated water soluble materials from a fermentation undertaken for the production of Bacillus acidopullulyticus. This fermentation shall be conducted in accordance with good manufacturing practices using a non-pathogenic strain of Bacillus acidopullulyticus, which does not contain a novel trait. It shall be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable microbial cells"; or

«Ce produit est exempté d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes.»

It shall also be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen, maximum crude fibre and maximum moisture. Enzyme activity or nutrient metabolite level shall be guaranteed where the product is to be sold for its enzyme activity or nutrient metabolite.

5.4.12

Bacillus lichenformis fermentation extract dehydrated (or Dried Bacillus lichenformis fermentation extract)(IFN 5-19-116) is the product resulting from drying the extracted or precipitated water soluble materials from a fermentation undertaken for the production of Bacillus lichenformis. This fermentation shall be conducted for the production of enzymes, fermentation substances or other microbial metabolites in accordance with good manufacturing practices using a non-pathogenic strain of Bacillus lichenformis, which does not contain a novel trait. It shall be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable microbial cells"; or

«Ce produit est exempté d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes.»

It shall also be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen, maximum crude fibre and maximum moisture. Enzyme activity or nutrient metabolite level shall be guaranteed where the product is to be sold for its enzyme activity or nutrient metabolite.

5.4.13

Bacillus subtilis fermentation extract dehydrated (or Dried Bacillus subtilis fermentation extract)(IFN 5-06-147)

is the dried product resulting from extracting and precipitating the water soluble materials from a fermentation conducted in accordance with good manufacturing practices. This fermentation is conducted for the production of enzymes, fermentation substances or other microbial metabolites using a non-pathogenic strain of the microorganism Bacillus subtilis, which does not contain a novel trait. It shall be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable microbial cells"; or

«Ce produit est exempté d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes.»

It shall also be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen, maximum crude fibre and maximum moisture. Enzyme activity or nutrient metabolite level shall be guaranteed where the product is to be sold for its enzyme activity or nutrient metabolite.

5.4.14

Bacillus subtilis fermentation product dehydrated (or Dried Bacillus subtilis fermentation product)(IFN 5-06-150)

is the product resulting from drying both solid and liquid materials from a fermentation conducted in accordance with good manufacturing practices. This fermentation is conducted for the production of enzymes, fermentation substances or other microbial metabolites using a non-pathogenic strain of the microorganism Bacillus subtilis, which does not contain a novel trait. It shall be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable microbial cells";

«Ce produit est exempté d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes.»

It shall also be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen, maximum crude fibre and maximum moisture. Enzyme activity or nutrient metabolite level shall be guaranteed where the product is to be sold for its enzyme activity or nutrient metabolite.

5.4.15

Bacillus subtilis fermentation product liquid (or Liquid Bacillus subtilis fermentation product)(IFN 5-06-156)

is the stabilized product of both solid and liquid materials from a fermentation conducted in accordance with good manufacturing practices. This fermentation is conducted for the production of enzymes, fermentation substances or other microbial metabolites using a non-pathogenic strain of microorganism Bacillus subtilis, which does not contain a novel trait. It shall be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable microbial cells"; or

«Ce produit est exempté d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes.»

It shall also be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen, maximum crude fibre and maximum moisture. Enzyme activity or nutrient metabolite level shall be guaranteed where the product is to be sold for its enzyme activity or nutrient metabolite.

5.4.16

Bacillus subtilis fermentation solubles dehydrated (or Dried Bacillus subtilis fermentation solubles)(IFN 5-29-779)

is the product resulting from drying the liquid after the separation of suspended solids from a fermentation conducted in accordance with good manufacturing practices. This fermentation is conducted for the production of enzymes, fermentation substances or other microbial metabolites using a non-pathogenic strain of the microorganism Bacillus subtilis, which does not contain a novel trait. It shall be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable microbial cells"; or

«Ce produit est exempté d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes.»

It shall also be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen, maximum crude fibre and maximum moisture. Enzyme activity or nutrient metabolite level shall be guaranteed where the product is to be sold for its enzyme activity or nutrient metabolite.

5.4.17

Citric acid fermentation presscake meal extracted (IFN 5-06-162)

is the filtered dried and ground mycelium obtained from the fermentation conducted for the production of citric acid in accordance with good manufacturing practices. Such fermentation shall use a non-pathogenic strain of microorganism, which does not contain a novel trait. It shall be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable microbial cells"; or

«Ce produit est exempté d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes.»

It shall also be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen, maximum crude fibre and maximum moisture. Enzyme activity or nutrient metabolite level shall be guaranteed where the product is to be sold for its enzyme activity or nutrient metabolite.

5.4.18

Citric acid fermentation solids with solubles, liquid (IFN 5-06-171)

is the stabilized product resulting from the fermentation undertaken for the production of citric acid. This fermentation shall be conducted

in accordance with good manufacturing practices using a non-pathogenic strain of microorganism, which does not contain a novel trait. It shall be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable microbial cells"; or

«Ce produit est exempté d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes.»

It shall also be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen, maximum crude fibre and maximum moisture. Enzyme activity or nutrient metabolite level shall be guaranteed where the product is to be sold for its enzyme activity or nutrient metabolite.

5.4.19

Citric acid fermentation solubles extracted dehydrated (IFN 5-06-165)

is the product resulting from drying the liquid obtained from the fermentation undertaken for the production of citric acid, after separation of suspended solids. This fermentation shall be conducted in accordance with good manufacturing practices using a non-pathogenic strain of microorganism, which does not contain a novel trait. It shall be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable microbial cells"; or

«Ce produit est exempté d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes.»

It shall also be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen, maximum crude fibre and maximum moisture. Enzyme activity or nutrient metabolite level shall be guaranteed where the product is to be sold for its enzyme activity or nutrient metabolite.

5.4.20

Citric acid fermentation solubles meal extracted dehydrated (IFN 5-06-168)

is the product resulting from drying both the solid and liquid materials obtained from the fermentation undertaken for the production of citric acid. This fermentation shall be conducted in accordance with good manufacturing practices using a non-pathogenic strain of microorganism, which does not contain a novel trait. It shall be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable microbial cells"; or

«Ce produit est exempté d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes.»

It shall also be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen, maximum crude fibre and maximum moisture. Enzyme activity or nutrient metabolite level shall be guaranteed where the product is to be sold for its enzyme activity or nutrient metabolite.

5.4.21

Humicola insolens fermentation extract dehydrated (IFN 5-32-158)

is the product resulting from drying the extracted or precipitated water soluble materials from a fermentation undertaken for the production of Humicola insolens. This fermentation shall be conducted for the production of enzymes, fermentation substances or other microbial metabolites in accordance with good manufacturing practices using a non-pathogenic strain of Humicola insolens, which does not contain a novel trait. It shall be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable microbial cells"; or

«Ce produit est exempté d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes.»

It shall also be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen, maximum crude fibre and maximum moisture. Enzyme activity or nutrient metabolite level shall be guaranteed where the product is to be sold for its enzyme activity or nutrient metabolite.

5.4.22

Lactobacillus acidophilus fermentation product dehydrated (or Dried Lactobacillus acidophilus fermentation product)(IFN 5-06-153)

is the product resulting from drying both solid and liquid materials from a fermentation conducted in accordance with good manufacturing practices. This fermentation is conducted for the production of enzymes, fermentation substances or other microbial metabolites using a non-pathogenic strain of the microorganism Lactobacillus acidophilus, which does not contain a novel trait. It shall be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable microbial cells"; or

«Ce produit est exempté d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes.»

It shall also be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen, maximum crude fibre and maximum moisture. Enzyme activity or nutrient metabolite level shall be guaranteed where the product is to be sold for its enzyme activity or nutrient metabolite.

5.4.23

Lactobacillus acidophilus fermentation product liquid (or Liquid Lactobacillus acidophilus fermentation product)(IFN 5-06-159)

is the stabilized product of both solid and liquid materials from a fermentation conducted in accordance with good manufacturing practices. This fermentation is conducted for the production of enzymes, fermentation substances or other microbial metabolites using a non-pathogenic strain of the microorganism Lactobacillus acidophilus, which does not contain a novel trait. It shall be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable microbial cells"; or

«Ce produit est exempté d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes.»

It shall also be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen, maximum crude fibre and maximum moisture. Enzyme activity or nutrient metabolite level shall be guaranteed where the product is to be sold for its enzyme activity or nutrient metabolite.

5.4.24

Lactobacillus bulgaricus fermentation product dehydrated (or Dried Lactobacillus bulgaricus fermentation product)(IFN 5-06-154) is the product resulting from drying both solid and liquid materials from a fermentation conducted in accordance with good manufacturing practices. This fermentation is conducted for the production of enzymes, fermentation substances or other microbial metabolites using a non-pathogenic strain of the microorganism Lactobacillus bulgaricus, which does not contain a novel trait. It shall be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable microbial cells"; or

«Ce produit est exempté d'activité et n'est pas une source de cellules microbiennes vivantes.»

It shall also be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen, maximum crude fibre and maximum moisture. Enzyme activity or nutrient metabolite level shall be guaranteed where the product is to be sold for its enzyme activity or nutrient metabolite.

5.4.25

Lactobacillus bulgaricus fermentation product liquid (or Liquid lactobacillus bulgaricus fermentation product) (IFN 5-06-160) is the stabilized product of both solid and liquid materials from a fermentation conducted in accordance with good manufacturing practices. This fermentation is conducted for the production of enzymes, fermentation substances or other microbial metabolites using a non-pathogenic strain of the microorganism Lactobacillus bulgaricus, which does not contain a novel trait. It shall be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable microbial cells"; or

«Ce produit est exempté d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes.»

It shall also be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen, maximum crude fibre and maximum moisture. Enzyme activity or nutrient metabolite level shall be guaranteed where the product is to be sold for its enzyme activity or nutrient metabolite.

5.4.26

Penicillium fermentation presscake meal extracted (IFN 5-06-163) is the filtered, dried and ground mycelium obtained from the fermentation conducted for the production of penicillin in accordance with good manufacturing practices. Such fermentation shall use a non-pathogenic strain of Penicillium, which does not contain a novel trait. It shall be labelled with one or both of the following statements.

"This product is free of antimicrobial activity and is not a source of viable microbial cells"; or

«Ce produit est exempté d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes.»

It shall also be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen, maximum crude fibre and maximum moisture. Enzyme activity or nutrient metabolite level shall be guaranteed where the product is to be sold for its enzyme activity or nutrient metabolite.

5.4.27

Penicillium fermentation solids with solubles, liquid (IFN 5-06-172) is the stabilized product resulting from the fermentation undertaken for the production of penicillin. This fermentation shall be conducted in accordance with good manufacturing practices using a non-pathogenic strain of microorganism, which does not contain a novel trait. It shall be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable microbial cells"; or

«Ce produit est exempté d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes.»

It shall also be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen, maximum crude fibre and maximum moisture. Enzyme activity or nutrient metabolite level shall be guaranteed where the product is to be sold for its enzyme activity or nutrient metabolite.

5.4.28

Penicillium fermentation solubles extracted dehydrated (IFN 5-06-166) is the product resulting from drying the liquid materials obtained after the separation of suspended solids from a fermentation undertaken for the production of penicillin. This fermentation shall be conducted in accordance with good manufacturing practices using a non-pathogenic strain of Penicillin, which does not contain a novel trait. It shall be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable microbial cells"; or

«Ce produit est exempté d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes.»

It shall also be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen, maximum crude fibre and maximum moisture. Enzyme activity or nutrient metabolite level shall be guaranteed where the product is to be sold for its enzyme activity or nutrient metabolite.

5.4.29

Penicillium fermentation solubles meal extracted dehydrated (IFN 5-06-169) is the product resulting from drying both the solid and liquid materials obtained from the fermentation undertaken for the production of penicillin. This fermentation shall be conducted in accordance with good manufacturing practices using a non-pathogenic strain of Penicillium, which does not contain a novel trait. It shall be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable microbial cells"; or

«Ce produit est exempté d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes.»

It shall also be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen, maximum crude fibre and maximum moisture. Enzyme activity or nutrient metabolite level shall be guaranteed where the product is to be sold for its enzyme activity or nutrient metabolite.

5.4.30

Rhizopus oryzae fermentation extract dehydrated (or Dried Rhizopus oryzae fermentation extract) (IFN 5-30-481)

is the product resulting from drying the extracted or precipitated water soluble materials from a fermentation undertaken for the production of Rhizopus oryzae. This fermentation shall be conducted for the production of enzymes, fermentation substances or other microbial metabolites in accordance with good manufacturing practices using a non-pathogenic strain of Rhizopus oryzae, which does not contain a novel trait. It shall be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable microbial cells"; or

«Ce produit est exempté d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes.»

It shall also be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen, maximum crude fibre and maximum moisture. Enzyme activity or nutrient metabolite level shall be guaranteed where the product is to be sold for its enzyme activity or nutrient metabolite.

5.4.31

Enterococcus faecium fermentation product dehydrated (or Dried Enterococcus faecium fermentation product) (IFN 5-06-155)

is the product resulting from drying both solid and liquid materials from a fermentation conducted in accordance with good manufacturing practices. This fermentation is conducted for the production of enzymes, fermentation substances or other microbial metabolites using a non-pathogenic strain of the microorganism Enterococcus faecium, which does not contain a novel trait. It shall be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable microbial cells"; or

«Ce produit est exempté d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes.»

It shall also be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen, maximum crude fibre and maximum moisture. Enzyme activity or nutrient metabolite level shall be guaranteed where the product is to be sold for its enzyme activity or nutrient metabolite.

5.4.32

Cattle skim milk cultured condensed (IFN 5-01-173)

is the residue obtained by evaporating lactic acid bacteria cultured defatted milk. It shall be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable microbial cells."; or

«Ce produit est exempt d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes.»

It shall also be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen and minimum total solids.

5.4.33

Cattle skim milk cultured dehydrated (IFN 5-01-174)

is the residue obtained by drying lactic acid bacteria cultured defatted milk. It shall be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable microbial cells."; or

«Ce produit est exempt d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes.»

It shall also be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen and maximum moisture.

5.4.34

Cattle whey fermentation solubles condensed (or Condensed whey fermentation solubles) (IFN 5-06-300)

is the product resulting from the removal of a considerable portion of the liquid by-product resulting from the action of the ferment on the basic medium of whey. It shall be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable microbial cells."; or

«Ce produit est exempt d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes.»

It shall also be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen and minimum riboflavin.

5.4.35

Sugarcane-beet sugar molasses yeast solubles condensed (or Molasses yeast condensed solubles) (IFN 5-29-782)

is obtained by condensing to a syrupy consistency the liquid from the manufacture of baker's yeast from sugarcane or sugarbeet molasses. It shall be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen and maximum moisture.

5.4.36

Enterococcus faecium fermentation product liquid (or Liquid Enterococcus faecium fermentation product) (IFN 5-06-161)

is the stabilized product of both solid and liquid materials from a fermentation conducted in accordance with good manufacturing practices. This fermentation is conducted for the production of enzymes, fermentation substances or other microbial metabolites using a non-pathogenic strain of the microorganism Enterococcus faecium which does not contain a novel trait. It shall be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable microbial cells"; or

«Ce produit est exempté d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes.»

It shall also be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen, maximum crude fibre and maximum moisture. Enzyme activity or nutrient metabolite level shall be guaranteed where the product is to be sold for its enzyme activity or nutrient metabolite.

5.4.37**Streptomyces fermentation presscake meal extracted** (IFN 5-06-164)

is the filtered, dried and ground mycelium obtained from the fermentation conducted for the production of streptomycin in accordance with good manufacturing practices. Such fermentation shall use a non-pathogenic strain of Streptomyces, which does not contain a novel trait. It shall be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable microbial cells"; or

«Ce produit est exempté d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes.»

It shall also be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen, maximum crude fibre and maximum moisture. Enzyme activity or nutrient metabolite level shall be guaranteed where the product is to be sold for its enzyme activity or nutrient metabolite.

5.4.38**Streptomyces fermentation solids with solubles, liquid** (IFN 5-06-173)

is the stabilized product resulting from the fermentation undertaken for the production of streptomycin. This fermentation shall be conducted in accordance with good manufacturing practices using a non-pathogenic strain of Streptomyces, which does not contain a novel trait. It shall be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable microbial cells"; or

«Ce produit est exempté d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes.»

It shall also be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen, maximum crude fibre and maximum moisture. Enzyme activity or nutrient metabolite level shall be guaranteed where the product is to be sold for its enzyme activity or nutrient metabolite.

5.4.39**Streptomyces fermentation solubles dehydrated (or Dried Streptomyces fermentation solubles)** (IFN 5-29-784)

is the product resulting from drying the liquid after the separation of suspended solids from a fermentation conducted in accordance with good manufacturing practices. This fermentation is conducted for the production of enzymes, fermentation substances or other microbial metabolites using a non-pathogenic strain of the microorganism Streptomyces, which does not contain a novel trait. It shall be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source viable microbial cells"; or

«Ce produit est exempté d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes.»

It shall also be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen, maximum crude fibre and maximum moisture. Enzyme activity or nutrient metabolite level shall be guaranteed where the product is to be sold for its enzyme activity or nutrient metabolite.

5.4.40**Streptomyces fermentation solubles extracted dehydrated** (IFN 5-06-167)

is the product resulting from drying the liquid materials obtained after the separation of suspended solids from a fermentation undertaken for the production of streptomycin. This fermentation shall be conducted in accordance with good manufacturing practices using a non-pathogenic strain of Streptomyces, which does not contain a novel trait. It shall be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable microbial cells"; or

«Ce produit est exempté d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes.»

It shall also be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen, maximum crude fibre and maximum moisture. Enzyme activity or nutrient metabolite level shall be guaranteed where the product is to be sold for its enzyme activity or nutrient metabolite.

5.4.41**Streptomyces fermentation solubles meal extracted dehydrated** (IFN 5-06-170)

is the product resulting from drying both the solid and liquid materials obtained from the fermentation undertaken for the production of streptomycin. This fermentation shall be conducted in accordance with good manufacturing practices using a non-pathogenic strain of Streptomyces, which does not contain a novel trait. It shall be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable microbial cells"; or

«Ce produit est exempté d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes.»

It shall also be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen, maximum crude fibre and maximum moisture. Enzyme activity or nutrient metabolite level shall be guaranteed where the product is to be sold for its enzyme activity or nutrient metabolite.

5.4.42**Trichoderma longibrachiatum fermentation extract condensed (or Trichoderma reesei fermentation extract condensed)** (IFN 5-32-159)

is the stabilized product resulting from concentrating the extracted water soluble materials from a fermentation undertaken for the production of Trichoderma longibrachiatum. This fermentation shall be conducted for the production of enzymes, fermentation substances or other microbial metabolites in accordance with good manufacturing practices using a non-pathogenic strain of Trichoderma longibrachiatum (formerly Trichoderma reesei), which does not contain a novel trait. It shall be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable microbial cells"; or

«Ce produit est exempté d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes.»

It shall also be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen, maximum

crude fibre and maximum moisture. Enzyme activity or nutrient metabolite level shall be guaranteed where the product is to be sold for its enzyme activity or nutrient metabolite.

5.4.43

Trichoderma longibrachiatum fermentation extract dehydrated (or Trichoderma reesei fermentation extract dehydrated) (IFN 5-32-160) is the product resulting from drying the extracted or precipitated water soluble materials from a fermentation undertaken for the production of Trichoderma longibrachiatum. This fermentation shall be conducted for the production of enzymes, fermentation substances or other microbial metabolites in accordance with good manufacturing practices using a non-pathogenic strain of Trichoderma longibrachiatum (formerly Trichoderma reesei), which does not contain a novel trait. It shall be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable microbial cells"; or

«Ce produit est exempté d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes.»

It shall also be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen, maximum crude fibre and maximum moisture. Enzyme activity or nutrient metabolite level shall be guaranteed where the product is to be sold for its enzyme activity or nutrient metabolite.

5.4.44

Trichoderma Viridae fermentation extract dehydrated (IFN -- --)

is the stabilized product resulting from concentrating the extracted water soluble materials from a fermentation undertaken for the production of Trichoderma viridae. This fermentation shall be conducted for the production of enzymes, fermentation substances or other microbial metabolites in accordance with good manufacturing practices using a non-pathogenic strain of Trichoderma viridae, which does not contain a novel trait. It shall be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable microbial cells"; or

«Ce produit est exempté d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes.»

It shall also be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen, maximum crude fibre and maximum moisture. Enzyme activity or nutrient metabolite level shall be guaranteed where the product is to be sold for its enzyme activity or nutrient metabolite.

5.4.45

Bacillus lichenformis fermentation solubles dehydrated (or Dried Bacillus lichenformis fermentation solubles) (IFN -- --)

is the product resulting from drying the liquid after the separation of suspended solids from a fermentation conducted in accordance with good manufacturing practices. This fermentation is conducted for the production of enzymes, fermentation substances or other microbial metabolites using a non-pathogenic strain of the microorganism Bacillus lichenformis, which does not contain a novel trait. It shall be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable microbial cells."; or

« Ce produit est exempt d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes.»

It shall also be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen, maximum crude fibre and maximum moisture. Enzyme activity or nutrient metabolite level shall be guaranteed where the product is to be sold for its enzyme activity or nutrient metabolite.

5.4.46

Enterococcus faecium fermentation product liquid (or liquid Enterococcus faecium fermentation product) (IFN 5-06-161)

is the stabilized product of both solid and liquid materials from a fermentation conducted in accordance with good manufacturing practices. This fermentation is conducted for the production of enzymes, fermentation substances or other microbial metabolites using a non-pathogenic strain of the microorganism Enterococcus faecium which does not contain a novel trait. It shall be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable microbial cells"; or

«Ce produit est exempté d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes.»

It shall also be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen, maximum crude fibre and maximum moisture. Enzyme activity or nutrient metabolite level shall be guaranteed where the product is to be sold for its enzyme activity or nutrient metabolite.

5.4.47

Candida famata fermentation solubles dehydrated (or Dried Candida famata fermentation solubles) (IFN -- --)

is the product resulting from drying liquid materials obtained after the separation of suspended solids from a fermentation conducted in accordance with good manufacturing practices. This fermentation is conducted for the production of nutrient metabolites using a non-pathogenic strain of Streptomyces which does not contain a novel trait. It shall be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable microbial cells."; or

«Ce produit est exempt d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes.»

It shall also be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen, maximum crude fibre and maximum moisture. Nutrient metabolite level shall be guaranteed where the product is to be sold for its nutrient metabolite.

5.4.48

Dried corn fermentation solubles (IFN -- --)

is a concentrated mixture of the liquor remaining from the extraction of lysine and the cells of Brevibacterium lactofermentum, Brevibacterium divaricatum, Corynebacterium lilium or Corynebacterium glutamicum used to produce lysine. This fermentation is conducted for the production of fermentation substances or other microbial metabolites using a non-pathogenic strain of the microorganisms listed above, which do not contain a novel trait. It shall be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable microbial cells."; or

"Ce produit est exempt d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes.»

It shall also be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen, maximum crude fibre and maximum moisture.

5.4.49

Glutamic acid fermentation residue concentrated (or Dried condensed extracted glutamic acid fermentation product) (IFN 5-01-595) is a concentrated mixture of the liquor remaining from the extraction of glutamic acid and the cells of *Brevibacterium lactofermentum*, *Brevibacterium divaricatum*, *Corynebacterium lilium* or *Corynebacterium glutamicum* used to produce the glutamic acid. This fermentation is conducted for the production of fermentation substances or other microbial metabolites using a non-pathogenic strain of the microorganisms listed above, which do not contain a novel trait. It shall be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable microbial cells."; or

«Ce produit est exempt d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes.»

It shall also be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen, maximum crude fibre and maximum moisture.

5.4.50

Rhizopus arrhizus fermentation extract dehydrated (or Dried Rhizopus arrhizus fermentation extract) (IFN ----)

is the product resulting from drying the extracted or precipitated water soluble materials from a fermentation undertaken for the production of *Rhizopus arrhizus*. This fermentation shall be conducted for the production of enzymes, fermentation substances or other microbial metabolites in accordance with good manufacturing practices using a non-pathogenic strain of *Rhizopus oryzae* which does not contain a novel trait. It shall be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable microbial cells."; or

«Ce produit est exempt d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes.»

It shall also be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen, maximum crude fibre and maximum moisture. Enzyme activity or nutrient metabolite level shall be guaranteed where the product is to be sold for its enzyme activity or nutrient metabolite.

5.4.51

Saccharomyces Fermentation Extract, liquid (or Liquid Saccharomyces Fermentation Extract) (IFN --)

is the extract obtained from the ultrafiltration and concentration of the liquid materials obtained from the fermentation of a non-pathogenic strain of *Saccharomyces* for the production of enzymes, fermentation substances, or other microbial metabolites in accordance with good manufacturing practices using a non-pathogenic strain of *Saccharomyces* which does not possess a novel trait. It shall be labelled with one or both of the following statements;

"This product is free of antimicrobial activity and is not a source of viable microbial cells" and/or

"Ce produit est exempt d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes"

It shall be labelled with guarantees for minimum crude protein, minimum crude fat, maximum moisture, maximum crude fibre and maximum ash. Enzyme activity or nutrient metabolite levels shall be guaranteed where the product is to be sold for its enzyme activity or nutrient metabolite.

5.4.52

Bacillus amyloliquefaciens fermentation solubles liquid (or Liquid Bacillus amyloliquefaciens fermentation solubles)

is the liquid after the separation of suspended solids from a fermentation conducted in accordance with good manufacturing practices. This fermentation is conducted for the production of enzymes, fermentation substances or other microbial metabolites using a non-pathogenic strain of the microorganism *Bacillus amyloliquefaciens*, which does not contain a novel trait. It shall be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable microbial cells."; or Ce produit est exempt d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes."

It shall also be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen, maximum crude fibre and maximum moisture. Enzyme activity or nutrient metabolite level shall be guaranteed where the product is to be sold for its enzyme activity or nutrient metabolite.

5.4.53

Dried Corynebacterium glutamicum Fermentation product (or L-lysine sulfate with fermentation product)

is the dried product containing a minimum of 45% alpha epsilon-diaminocaproic acid resulting from the drying of both solid and liquid materials from a fermentation conducted in accordance with good manufacturing practices. This fermentation is conducted for the production of L-lysine sulfate using a non-pathogenic strain of the microorganism *Corynebacterium glutamicum*. It shall be labelled with a minimum guarantee for L-lysine. It shall also be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable microbial cells."

Or, "Ce produit est exempt d'activité antimicrobienne et n'est pas une source de cellules microbiennes vivantes."

5.4.54

Trichoderma longibrachiatum fermentation solubles dehydrated (or Trichoderma reesei fermentation solubles dehydrated)

is the product resulting from drying the liquid after the separation of suspended solids from a fermentation conducted in accordance with good manufacturing practices. This fermentation is conducted for the production of enzymes, fermentation substances or other microbial metabolites using a non-pathogenic strain of the microorganism *Trichoderma longibrachiatum* (formerly *T. reesei*), which does not contain a novel trait. It shall be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable microbial cells."; or Ce produit est exempt

d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes."

It shall also be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen, maximum crude fibre and maximum moisture. Enzyme activity or nutrient metabolite level shall be guaranteed where the product is to be sold for its enzyme activity or nutrient metabolite.

5.4.55

Trichoderma longibrachiatum fermentation solubles condensed (or Trichoderma reesei fermentation solubles condensed)

is the product resulting from concentrating the liquid after the separation of suspended solids from a fermentation conducted in accordance with good manufacturing practices. This fermentation is conducted for the production of enzymes, fermentation substances or other microbial metabolites using a non-pathogenic strain of the microorganism *Trichoderma longibrachiatum* (formerly *T. reesei*), which does not contain a novel trait. It shall be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable microbial cells."; or Ce produit est exempt d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes."

It shall also be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen, maximum crude fibre and maximum moisture. Enzyme activity or nutrient metabolite level shall be guaranteed where the product is to be sold for its enzyme activity or nutrient metabolite.

5.4.56

Saccharomyces cerevisiae fermentation solubles extracted, dehydrated (or dried soluble Saccharomyces cerevisiae fermentation solubles extract)

is the product resulting from drying the soluble components of the internal cell structures after the separation of the liquid materials from a fermentation, autolysis of the cells and removal of cell debris by centrifugation in accordance with good manufacturing practices. The fermentation is conducted for the production of enzymes or other microbial metabolites using a non-pathogenic strain of the *Saccharomyces cerevisiae*, which does not possess a novel trait. It shall be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable microbial cells" or "ce produit est exempt d'activité anti-microbiennes et n'est pas une source de cellules microbiennes vivantes"

It shall be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen, maximum moisture and maximum crude fiber. Enzyme activity or nutrient metabolites levels shall be guaranteed where the product is to be sold for its enzyme activity or nutrient metabolite.

5.4.57

Lactobacillus buchneri fermentation product dehydrated(or: Dried Lactobacillus buchneri fermentation product)

is the product resulting from drying both solid and liquid materials from a fermentation conducted in accordance with good manufacturing practices. This fermentation is conducted for the production of enzymes, fermentation substances or other microbial metabolites using a non-pathogenic strain of the microorganism *Lactobacillus buchneri*, which does not contain a novel trait. It shall be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable microbial cells"; or

«Ce produit est exempté d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes.»

It shall also be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen, maximum crude fibre and maximum moisture. Enzyme activity or nutrient metabolite level shall be guaranteed where the product is to be sold for its activity or nutrient metabolite.

5.4.58

Bacillus amyloliquefaciens fermentation product liquid (or Liquid Bacillus amyloliquefaciens fermentation product)

is the stabilized product of both solid and liquid materials from a fermentation conducted in accordance with good manufacturing practices. This fermentation is conducted for the production of enzymes, fermentation substances or other microbial metabolites using a non-pathogenic strain of the microorganism *Bacillus amyloliquefaciens*, which does not contain a novel trait. It shall be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable microbial cells."; or "Ce produit est exempt d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes."

It shall also be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen, maximum crude fibre and maximum moisture. Enzyme activity or nutrient metabolite level shall be guaranteed where the product is to be sold for its enzyme activity or nutrient metabolite.

5.4.59

Bacillus licheniformis fermentation solubles liquid (Liquid Bacillus licheniformis fermentation solubles)

is the liquid after the separation of suspended solids from a fermentation conducted in accordance with good manufacturing practices. This fermentation is conducted for the production of enzymes, fermentation substances or other microbial metabolites using a non-pathogenic strain of the microorganism *Bacillus licheniformis*, which does not contain a novel trait. It shall be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable microbial cells."; or Ce produit est exempt d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes."

It shall also be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen, maximum crude fibre and maximum moisture. Enzyme activity or nutrient metabolite level shall be guaranteed where the product is to be sold for its enzyme activity or nutrient metabolite.

5.4.60

Trichoderma longibrachiatum fermentation solubles liquid (or Liquid Trichoderma longibrachiatum fermentation solubles)

is the liquid after the separation of suspended solids from a fermentation conducted in accordance with good manufacturing practices. This fermentation is conducted for the production of enzymes, fermentation substances or other microbial metabolites using a non-pathogenic strain of the microorganism *Trichoderma longibrachiatum*, which does not contain a novel trait. It shall be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable microbial cells."; or

« Ce produit est exempt d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes. »

It shall also be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen, maximum crude fibre and maximum moisture. Enzyme activity or nutrient metabolite level shall be guaranteed where the product is to be sold for its enzyme activity or nutrient metabolite.

5.4.61

Bacillus subtilis fermentation solubles liquid (or Liquid Bacillus subtilis fermentation solubles)

is the liquid after the separation of suspended solids from a fermentation conducted in accordance with good manufacturing practices. This fermentation is conducted for the production of enzymes, fermentation substances or other microbial metabolites using a non-pathogenic strain of the microorganism *Bacillus subtilis*, which does not contain a novel trait. It shall be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable microbial cells."; or

« Ce produit est exempt d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes. »

It shall also be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen, maximum crude fibre and maximum moisture. Enzyme activity or nutrient metabolite level shall be guaranteed where the product is to be sold for its enzyme activity or nutrient metabolite.

5.4.62

Aspergillus niger fermentation solubles liquid (or Liquid Aspergillus niger fermentation solubles)

is the liquid after the separation of suspended solids from a fermentation conducted in accordance with good manufacturing practices. This fermentation is conducted for the production of enzymes, fermentation substances or other microbial metabolites using a non-pathogenic strain of the microorganism *Aspergillus niger*, which does not contain a novel trait. It shall be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable microbial cells."; or

« Ce produit est exempt d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes. »

It shall also be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen, maximum crude fibre and maximum moisture. Enzyme activity or nutrient metabolite level shall be guaranteed where the product is to be sold for its enzyme activity or nutrient metabolite.

5.4.63

Saccharomyces cerevisiae fermentation extract dehydrated (or Dried Saccharomyces cerevisiae fermentation extract, Yeast extract dehydrated, Dried Yeast extract)

is the dried product resulting from extracting and precipitating the water soluble materials from a fermentation conducted in accordance with good manufacturing practices. This fermentation is conducted for the production of enzymes, fermentation substances or other microbial metabolites using a non-pathogenic strain of the microorganism *Saccharomyces cerevisiae*, which does not contain a novel trait. It shall be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable microbial cells"; or

«Ce produit est exempté d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes.»

It shall also be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen, maximum crude fibre and maximum moisture. Enzyme activity or nutrient metabolite level shall be guaranteed where the product is to be sold for its enzyme activity or nutrient metabolite.

5.4.64

Trichoderma longibrachiatum fermentation product dehydrated (or Dried Trichoderma longibrachiatum fermentation product)

is the product resulting from drying both solid and liquid materials from a fermentation conducted in accordance with good manufacturing practices. This fermentation is conducted for the production of enzymes, fermentation substances or other microbial metabolites using a non-pathogenic strain of the microorganism *Trichoderma longibrachiatum*, which does not contain a novel trait. It shall be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable microbial cells";

«Ce produit est exempté d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes.»

It shall also be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen, maximum crude fibre and maximum moisture. Enzyme activity or nutrient metabolite level shall be guaranteed where the product is to be sold for its enzyme activity or nutrient metabolite.

5.4.65

Aspergillus oryzae fermentation solubles liquid condensed (or Condensed Aspergillus oryzae fermentation solubles, liquid)

is the condensed liquid product after the separation of suspended solids from a fermentation conducted in accordance with good manufacturing practices. This fermentation is conducted for the production of enzymes, fermentation substances or other microbial metabolites using a non-pathogenic strain of the microorganism *Aspergillus oryzae*, which does not contain a novel trait. It shall be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable cells"; or

«Ce produit est exempté d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes.»

It shall also be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen, maximum crude fibre and maximum moisture. Enzyme activity or nutrient metabolite level shall be guaranteed where the product is to be sold for its enzyme activity or nutrient metabolite.

5.4.66

Bacillus amyloliquefaciens fermentation solubles condensed (or Condensed *Bacillus amyloliquefaciens* fermentation solubles) is the condensed liquid product after the separation of suspended solids from a fermentation conducted in accordance with good manufacturing practices. This fermentation is conducted for the production of enzymes, fermentation substances or other microbial metabolites using a non-pathogenic strain of the microorganism *Bacillus amyloliquefaciens*, which does not contain a novel trait. It shall be labelled with one or both of the following statements:

"This product is free of antimicrobial activity and is not a source of viable cells"; or

«Ce produit est exempté d'activité anti-microbienne et n'est pas une source de cellules microbiennes vivantes.»

It shall also be labelled with guarantees for minimum crude protein, maximum equivalent crude protein from non-protein nitrogen, maximum crude fibre and maximum moisture. Enzyme activity or nutrient metabolite level shall be guaranteed where the product is to be sold for its enzyme activity or nutrient metabolite

5.5 Brewers' and Distillers' Products

5.5.1

Barley brewers grains dehydrated (or Brewers dried grains) (IFN 5-00-516)

is the dried, extracted residue of barley malt, alone or in mixture with other cereal grains or grain products resulting from the manufacture of beer, and may contain pulverized spent hops evenly distributed. It shall be labelled with guarantees for minimum crude protein, maximum moisture and maximum dried spent hops.

5.5.2

Barley brewers grains wet (or Brewers wet grains) (IFN 5-00-517)

is the extracted residue of barley malt, alone or in mixture with other cereal grains or grain products resulting from the manufacture of beer. It shall be labelled with guarantees for minimum crude protein and maximum moisture.

5.5.3

Barley distillers dried grains dehydrated (IFN 5-00-518)

is the product obtained after the removal of ethyl alcohol by distillation from the yeast fermentation of a barley or a grain mixture in which barley predominates by separating the resultant coarse grain fraction of the whole stillage and drying it by methods employed in the grain distilling industry. It shall be labelled with guarantees for minimum crude protein, maximum moisture and maximum crude fibre.

5.5.4

Barley distillers grains with solubles dehydrated (IFN 5-12-185)

is the product obtained after the removal of ethyl alcohol by distillation from the yeast fermentation of barley or a grain mixture in which barley predominates and contains the major portion of the condensed screened stillage dried therewith by methods employed in the grain distilling industry. It shall be labelled with guarantees for minimum crude protein, maximum moisture and maximum crude fibre.

5.5.5

Barley distillers solubles condensed (IFN 5-12-210)

is the product obtained after the removal of ethyl alcohol by the distillation from the yeast fermentation of barley or a grain mixture in which barley predominates by condensing the screened stillage fraction to a semi-solid. It shall be labelled with guarantees for minimum crude protein and maximum moisture.

5.5.6

Barley distillers solubles dehydrated (IFN 5-00-520)

is the product obtained after the removal of ethyl alcohol by distillation from the yeast fermentation of barley or a grain mixture in which barley predominates by condensing the screened stillage fraction and drying it by methods employed in the grain distilling industry. It shall be labelled with guarantees for minimum crude protein and maximum moisture.

5.5.7

Barley malt sprouts dehydrated (or Malt sprouts) (IFN 5-00-545)

is obtained from malted barley by removal of the sprouts and may include some of the malt hulls, other parts of malt and foreign material unavoidably present. It shall be labelled with guarantees for minimum crude protein, maximum moisture and maximum crude fibre.

5.5.8

Maize distillers grains dehydrated (or Corn distillers grains dehydrated) (IFN 5-02-842)

is the product obtained after the removal of ethyl alcohol by distillations from the yeast fermentation of a corn or a grain mixture in which corn predominates by separating the resultant coarse grain fraction of the whole stillage and drying it by methods employed in the grain distilling industry. It shall be labelled with guarantees for minimum crude protein, maximum moisture and maximum crude fibre.

5.5.9

Maize distillers grains with solubles dehydrated (or Corn distillers grains with solubles dehydrated) (IFN 5-02-843)

is the product obtained after the removal of ethyl alcohol by distillation from the yeast fermentation of corn or a grain mixture in which corn predominates and contains the major portion of the condensed screened stillage dried therewith by methods employed in the grain distilling industry. It shall be labelled with guarantees for minimum crude protein, maximum moisture and maximum crude fibre.

5.5.10

Maize distillers solubles condensed (or Corn distillers solubles condensed) (IFN 5-12-211)

is the product obtained after the removal of ethyl alcohol by distillation from the yeast fermentation of corn or grain mixture in which corn predominates by condensing the screened stillage fraction to a semi-solid. It shall be labelled with guarantees for minimum crude protein and maximum moisture.

5.5.11

Maize distillers solubles dehydrated (or Corn distillers solubles dehydrated) (IFN 5-02-844)

is the product obtained after the removal of ethyl alcohol by distillation from the yeast fermentation of corn or a grain mixture in which corn predominates by condensing the screened stillage fraction and drying it by methods employed in the grain distilling industry. It shall be labelled with guarantees for minimum crude protein and maximum moisture.

5.5.12

Rye distillers grains dehydrated (IFN 5-04-023)

is the product obtained after the removal of ethyl alcohol by distillation from the yeast fermentation of rye or a grain mixture in which rye predominates by separating the resultant coarse grain fraction of the whole stillage and drying it by methods employed in the grain distilling industry. It shall be labelled with guarantees for minimum crude protein, maximum moisture and maximum crude fibre.

5.5.13

Rye distillers grains with solubles dehydrated (IFN 5-04-024)

is the product obtained after the removal of ethyl alcohol by distillation from the yeast fermentation of rye or a grain mixture in which rye predominates and contains the major portion of the condensed screened stillage dried therewith by methods employed in the grain distilling industry. It shall be labelled with guarantees for minimum crude protein, maximum moisture and maximum crude fibre.

5.5.14

Rye distillers solubles condensed (IFN 5-12-212)

is the product obtained after the removal of ethyl alcohol by distillation from the yeast fermentation of rye or a grain mixture in which rye predominates by condensing the screened stillage fraction to a semi-solid. It shall be labelled with guarantees for minimum crude protein and maximum moisture.

5.5.15

Rye distillers solubles dehydrated (IFN 5-04-026)

is the product obtained after the removal of ethyl alcohol by distillation from the yeast fermentation of rye or a grain mixture in which rye predominates by condensing the screened stillage fraction and drying it by methods employed in the grain distilling industry. It shall be labelled with guarantees for minimum crude protein and maximum moisture.

5.5.16

Rye malt sprouts dehydrated (IFN 5-04-048)

is obtained from malted rye by the removal of the sprouts and may include some of the malt hulls, other parts of malt and foreign material unavoidably present. It shall be labelled with guarantees for minimum crude protein, maximum moisture and maximum crude fibre.

5.5.17

Sorghum distillers grains dehydrated (IFN 5-04-374)

is the product obtained after the removal of ethyl alcohol by distillation from the yeast fermentation of sorghum or a grain mixture in which sorghum predominates by separating the resultant coarse grain fraction of the whole stillage and drying it by methods employed in the grain distilling industry. It shall be labelled with guarantees for minimum crude protein, maximum moisture and maximum crude fibre.

5.5.18

Sorghum distillers grains with solubles dehydrated (IFN 5-04-375)

is the product obtained after the removal of ethyl alcohol by distillation from the yeast fermentation of sorghum or a grain mixture in which sorghum predominates and contains the major portion of the condensed screened stillage dried therewith by methods employed in the grain distilling industry. It shall be labelled with guarantees for minimum crude protein, maximum moisture and maximum crude fibre.

5.5.19

Sorghum distillers solubles condensed (IFN 5-12-231)

is the product obtained after the removal of ethyl alcohol by distillation from the yeast fermentation of sorghum or a grain mixture in which sorghum predominates by condensing the screened stillage fraction to a semi-solid. It shall be labelled with guarantees for minimum crude protein and maximum moisture.

5.5.20

Sorghum distillers solubles dehydrated (IFN 5-04-376)

is the product obtained after the removal of ethyl alcohol by distillation from the yeast fermentation of sorghum or a grain mixture in which sorghum predominates by condensing the screened stillage fraction and drying it by methods employed in the grain distilling industry. It shall be labelled with guarantees for minimum crude protein and maximum moisture.

5.5.21

Wheat distillers grains dehydrated (IFN 5-05-193)

is the product obtained after the removal of ethyl alcohol by distillation from the yeast fermentation of a wheat or a grain mixture in which wheat predominates by separating the resultant coarse grain fraction of the whole stillage and drying it by methods employed in the grain distilling industry. It shall be labelled with guarantees for minimum crude protein, maximum moisture and maximum crude

fibre.

5.5.22

Wheat distillers grains with solubles dehydrated (IFN 5-05-194)

is the product obtained after the removal of ethyl alcohol by distillation from the yeast fermentation of wheat or grain mixture in which wheat predominates and contains the major portion of the condensed screened stillage dried therewith by methods employed in the grain distilling industry. It shall be labelled with guarantees for minimum crude protein, maximum moisture and maximum crude fibre.

5.5.23

Wheat distillers solubles condensed (IFN 5-12-213)

is the product obtained after the removal of ethyl alcohol by distillation from the yeast fermentation of wheat or a grain mixture in which wheat predominates by condensing the screened stillage fraction to a semi-solid. It shall be labelled with guarantees for minimum crude protein and maximum moisture.

5.5.24

Wheat distillers solubles dehydrated (IFN 5-05-195)

is the product obtained after the removal of ethyl alcohol by distillation from the yeast fermentation of wheat or a grain mixture in which wheat predominates by condensing the screened stillage fraction and drying it by methods employed in the grain distilling industry. It shall be labelled with guarantees for minimum crude protein and maximum moisture.

5.5.25

Wheat malt sprouts dehydrated (IFN 5-29-796)

is obtained from malted wheat by removal of the sprouts and may include some of the malt hulls, other parts of malt and foreign material unavoidably present. It shall be labelled with guarantees for minimum crude protein, maximum moisture and maximum crude fibre.

5.6 Amino Acids

5.6.1

L-Lysine (or Lysine, L-) (IFN 5-08-022)

is the product that contains a minimum of 95 percent of alpha epsilon-diaminocaproic acid. It shall be labelled with a guarantee for minimum L-lysine.

5.6.2

DL-Methionine (or Methionine, DL-) (IFN 5-03-086)

is the product that contains a minimum of 95 percent racemic 2-amino-4-methylthiobutyric acid. It shall be labelled with a guarantee for minimum L-methionine.

5.6.3

DL-Methionine hydroxy analogue calcium (IFN 5-03-087)

is the product that contains a minimum of 93 percent racemic 2-hydroxy-4-methylthiobutyric acid calcium salt. It shall be labelled with a guarantee for minimum L-methionine hydroxy analogue calcium.

5.6.4

Glycine (or Aminoacetic acid) (IFN 5-02-127)

is a product which contains a minimum of 97 per cent aminoacetic acid. It shall be labelled with a guarantee for minimum L-glycine.

5.6.5

N-Hydroxymethyl-DL-methionine dehydrated calcium salt (or Methionine, DL, N-hydroxymethyl, dehydrated calcium salt, or Hydroxymethyl, N, DL-methionine dehydrated calcium salt) (IFN 5-30-383)

is the product that contains a minimum of 98 per cent of the racemic dehydrated calcium salt of N- hydroxymethyl-DL-methionine. It shall be labelled with a statement indicating the equivalent minimum of L-methionine.

5.6.6

L-Threonine (or Threonine, L-) (IFN 5-08-092)

is the product that contains a minimum of 95 per cent of alpha-epsilon-2-amino-3-hydroxybutyric acid. It shall be labelled with a guarantee for minimum L-Threonine.

5.6.7

L-Tryptophan (or Tryptophan, L-) (IFN 5-18-776)

is the product that contains a minimum of 97 per cent alpha-epsilon-1-amino-3-indolepropionic acid. It shall be labelled with a guarantee for minimum L-Tryptophan.

5.6.8

DL-Tryptophan (or Tryptophan, DL-) (IFN 5-08--093)

is the product that contains a minimum of 97 per cent of racemic 1-alpha-amino-3-indolepropionic acid. It shall be labelled with a guarantee for minimum L-tryptophan.

5.6.9

L-Proline (or Proline, L-) (IFN 5-32-190)

is the product that contains a minimum of 97 per cent 2-pyrrolidine carboxylic acid. It shall be labelled with a guarantee for minimum L-proline.

5.6.10

DL-Sodium methionate, aqueous solution (or Sodium methionate DL-, aqueous solution) (IFN - - -)

is the aqueous solution of DL-Methionate Sodium that contains a minimum of 45.9% racemic 2-amino-4-(methyl mercapto)-butanoic acid sodium salt. It shall be labelled with guarantees for minimum DL-methionine and minimum L-methionine.

5.6.11

DL-Methionine hydroxy analogue (or Methionine hydroxy analogue-DL, or MHA, or MHB) (IFN 5-30-281)

is the product which contains a minimum of 88 percent racemic 2-amino-4-methylthiobutyric (2-hydroxy-4-(methyl mercapto) butyric acid). It shall be labelled with guarantees for minimum DL-methionine hydroxy analogue and minimum L-methionine hydroxy analogue.

5.6.12

Taurine (IFN - - -)

is 2-aminoethane sulfonic acid and is a non-essential amino-acid. It shall be labelled with a guarantee for minimum percent taurine.

5.6.13

L-Isoleucine (or Isoleucine, L-) (IFN -- --)

is 2-amino-3methylvaleric acid and is an essential amino acid. It shall contain a minimum of 90% L-Isoleucine. It shall be labelled with a guarantee for minimum percent L-isoleucine.

5.6.14

L-Lysine Monohydrochloride (or Lysine Monohydrochloride, L-) (IFN 5-19-118)

is the product that contains a minimum of 95 per cent of alpha epsilon-diaminocaproic acid monohydrochloride. It shall be labelled with a guarantee for minimum L-lysine.

5.6.15

L-Lysine solution (or L-Lysine liquid) (IFN --)

is the product that contains a minimum of 50% (w/v) alpha epsilon-diaminocaproic acid in water solution. It shall be labelled with a guarantee for minimum % L-Lysine.

5.6.16

L-Carnitine (or Carnitine, L-)

is the product than contains a minimum of 96% γ -trimethylamino- β -hydroxybutyrate. It shall be labelled with a guarantee for minimum % L-Carnitine. It shall also be labelled with the following statements: "This product is for use in swine feeds at a level not to exceed 0.1% (1000 mg/kg) of the total ration" and/or "Ce produit est ajouté à des aliments pour porcins et sa teneur ne doit pas dépasser 0,1 % (1 000 mg/kg) de la ration totale"

5.6.17

2-Hydroxy-4(methylthio) butanoic Acid on carrier(or DL-Methionine hydroxy analogue on carrier, MHA on carrier, MHB on carrier) is the product which contains racemic 2-amino-4-methylthiobutyric (2-hydroxy-4-(methyl mercapto) butyric) acid, this source having a minimum of 88 percent purity (as per 5.6.11), and which is applied to a carrier which listed in schedule IV part I or II. The carrier(s) used shall be indicated on the label. It shall be labelled with guarantees for minimum DL-methionine hydroxy analogue.

5.7 Non-protein Nitrogen Products**5.7.1**Anhydrous ammonia NH₃ (IFN 5-14-511)

is ammonia gas compressed to liquid form containing not less than 82 percent nitrogen. It shall be labelled with one or both of the following statements:

"This product is a source of non-protein nitrogen and should be used with care when feed contains urea or other sources of non-protein nitrogen."; or

«Ce produit est une source d'azote non protéique et doit être utilisé avec soin quand l'aliment du bétail contient de l'urée ou d'autres sources d'azote non protéique.»

It shall also be labelled with a guarantee for minimum nitrogen.

5.7.2Biuret (IFN 5-09-824)

consists predominantly of biuret together with related non-toxic nitrogenous compounds resulting from the controlled pyrolysis of urea and subsequent processing. It shall not contain more than 0.5 percent mineral oil. It shall be labelled with guarantees for minimum nitrogen and maximum nitrogen from urea.

5.7.3Urea 45 percent nitrogen 281 percent protein (or Urea) (IFN 5-05-070)

consists predominantly of urea, but may contain other non-toxic nitrogenous compounds that are present as by-products from the commercial synthesis and processing of urea. It may contain methylenediurea (MDU) as a conditioning agent. It shall be labelled with a guarantee for minimum nitrogen. If urea-formaldehyde is used in the process, it shall also be labelled with a guarantee for maximum percent MDU. This product shall contain less than 1.0% free formaldehyde. For liquid urea, it shall also be labelled with guarantees for maximum biuret and maximum free ammonia.

5.8 Other**5.8.1**

Beet sugar Steffens filtrate condensed (or Condensed Steffen filtrate) (IFN 5-00-679) is a by-product of the recovery of sucrose from beet molasses by precipitation with calcium oxide. It shall be labelled with guarantees for minimum crude protein, maximum crude fibre and maximum moisture.

5.8.2

Maize extractives condensed fermented with germ meal and bran dehydrated (or Corn extractives condensed fermented with germ meal and bran dehydrated or Condensed fermented maize extractives with germ meal and bran dehydrated or Condensed fermented corn extractives with germ meal and bran dehydrated) (IFN 5-09-333) is the product obtained by drying condensed fermented corn extractives on the germ meal and bran remaining after extraction of the larger portion of the starch, bran gluten and oil by the process employed in the wet milling manufacture of corn starch or syrup. It may contain corn gluten meal to adjust protein content. It shall be labelled with guarantees for minimum crude protein, maximum crude fibre and maximum moisture.

5.8.3

Tomato pomace dehydrated (or Dried tomato pomace) (IFN 5-05-041) consists of the dried mixture of tomato skins, pulp and crushed seeds. If the pomace contains spices used in the production of a tomato product, the name of this pomace product shall be tomato pomace spiced dehydrated. It shall be labelled with guarantees for minimum crude protein, maximum crude fat and maximum crude fibre.

5.8.4

Potato Protein Isolate (or Potato Protein) is the product derived from de-starched potato juice from which the proteinaceous fraction has been precipitated by thermal coagulation followed by dehydration. It shall be labelled with a guarantees for minimum crude protein, maximum moisture, maximum crude fibre and minimum crude fat.

CLASS 6. MINERAL PRODUCTS**6.1**

Ammonium phosphate dibasic $(\text{NH}_4)_2\text{HPO}_4$ (or Diammonium phosphate) (IFN 6-00-370) is the dibasic ammonium salt of phosphoric acid. It shall be labelled with guarantees for minimum percent of nitrogen, maximum percent of nitrogen, minimum percent of phosphorus and maximum milligrams of arsenic, iron, lead and fluorine per kilogram.

6.2

Ammonium phosphate monobasic $(\text{NH}_4)\text{H}_2\text{PO}_4$ (or Monoammonium phosphate) (IFN 6-09-338) is the monobasic ammonium salt of phosphoric acid. It shall be labelled with guarantees for minimum percent of nitrogen, maximum percent of nitrogen, minimum percent of phosphorus and maximum milligrams of arsenic, iron, lead and fluorine per kilogram.

6.3

Ammonium polyphosphate solution (IFN 6-08-042) is the ammonium salt of superphosphoric acid. It shall be labelled with guarantees for minimum percent of nitrogen, maximum percent of nitrogen, minimum percent of phosphorus and maximum milligrams of arsenic, iron, lead and fluorine per kilogram.

6.4

Ammonium sulfate $(\text{NH}_4)_2\text{SO}_4$ (IFN 6-09-339) is the ammonium salt of sulfuric acid. It shall be labelled with guarantees for minimum percent of nitrogen, maximum percent of nitrogen, minimum percent of sulfate and maximum milligrams of arsenic, iron and lead per kilogram.

6.5

Animal bone meal steamed (IFN 6-00-400) is the ground product obtained from undecomposed bones cooked with steam and dried. It shall be labelled with guarantees for minimum percent of calcium and minimum percent of phosphorus. If it bears a name descriptive of kind, it shall correspond thereto. If the product contains "prohibited materials", it shall be labelled with the following statements: "Do not feed to cattle, sheep, deer or other ruminants." and/or "<<Ne pas nourrir les bovins, les ovins, les chevreuils ni d'autres ruminants de ce produit.>>

6.6

Calcium carbonate CaCO_3 (or Calcium flour) (IFN 6-01-069) is the calcium salt of carbonic acid. It shall contain not less than 38 percent calcium. It shall be labelled with a guarantee for minimum percent of calcium.

6.7

Calcium chloride CaCl_2 (IFN 6-20-774) is the anhydrous calcium salt of hydrochloric acid. It shall be labelled with a guarantee for minimum percent of calcium.

6.8

Calcium hydroxide (or Hydrated lime) (IFN 6-14-014) is the hydrated form of calcium oxide generally expressed as $\text{Ca}(\text{OH})_2 \cdot \text{H}_2\text{O}$. It shall be labelled with a guarantee for minimum percent calcium.

6.9

Calcium iodate $\text{Ca}(\text{IO}_3)_2$ (IFN 6-01-075) is the anhydrous calcium salt of iodic acid. It shall be labelled with a guarantee for minimum percent of iodine.

6.10

Calcium phosphate dibasic CaHPO_4 (or Dicalcium phosphate) (IFN 6-01-080) is the anhydrous dibasic calcium salt of phosphoric acid. It shall be labelled with guarantees for minimum percent of phosphorus, minimum percent of calcium and maximum milligrams of fluorine and iron per kilogram.

6.11

Calcium phosphate monobasic $\text{CaH}_2(\text{PO}_4)_2$ (or Monocalcium phosphate) (IFN 6-01-082) is the anhydrous monobasic calcium salt of phosphoric acid. It shall be labelled with guarantees for minimum percent of phosphorus, minimum percent of calcium and maximum milligrams of fluorine and iron per kilogram.

6.12

Calcium phosphate tribasic $\text{Ca}_3(\text{PO}_4)_2$ (or Tricalcium phosphate) (IFN 6-01-084) is the anhydrous tribasic calcium salt of phosphoric acid. It shall be labelled with guarantees for minimum percent of phosphorus, minimum percent of calcium and maximum milligrams of fluorine and iron per kilogram.

6.14

Calcium sulfate anhydrous CaSO_4 (IFN 6-01-087) is the anhydrous calcium salt of sulfuric acid. It shall be labelled with guarantees for minimum percent of calcium, minimum percent of sulfur and maximum milligrams of iron per kilogram.

6.15

Calcium sulfate dihydrate $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$ (IFN 6-01-090) is the dihydrated calcium salt of sulfuric acid. It shall be labelled with guarantees for minimum percent of calcium, minimum percent of sulfur and maximum milligrams of iron per kilogram.

6.16

Cobaltous carbonate CoCO_3 (or Cobalt carbonate) (IFN 6-01-566) is the anhydrous divalent cobalt salt of carbonic acid. It shall be labelled with a guarantee for minimum percent of cobalt.

6.20

Cobaltous sulfate heptahydrate $\text{CoSO}_4 \cdot 7\text{H}_2\text{O}$ (or Cobalt sulfate heptahydrate) (IFN 6-01-564)

is the heptahydrated divalent cobalt salt of sulfuric acid. It shall be labelled with a guarantee for minimum percent of cobalt.

6.21

Cobaltous sulfate monohydrate $\text{CoSO}_4 \cdot \text{H}_2\text{O}$ (or Cobalt sulfate) (IFN 6-01-562)

is the monohydrated divalent cobalt salt of sulfuric acid. It shall be labelled with a guarantee for minimum percent of cobalt.

6.25

Cupric carbonate CuCO_3 (or Copper carbonate) (IFN 6-01-703)

is the anhydrous divalent copper salt of carbonic acid. It shall be labelled with guarantees for minimum percent of copper and maximum milligrams of lead per kilogram.

6.26

Cupric oxide CuO (or Copper oxide) (IFN 6-01-711)

is the anhydrous oxide of divalent copper. It shall be labelled with guarantees for minimum percent of copper and maximum milligrams of lead and iron per kilogram.

6.27

Cupric sulfate anhydrous CuSO_4 (IFN 6-01-717)

is the anhydrous divalent copper salt of sulfuric acid. It shall be labelled with guarantees for minimum percent of copper, minimum percent of sulfur and maximum milligrams of lead, arsenic and iron per kilogram.

6.28

Cupric sulfate pentahydrate $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$ (or Bluestone or Copper sulfate) (IFN 6-01-719)

is the pentahydrated divalent copper salt of sulfuric acid. It shall be labelled with guarantees for minimum percent of copper, minimum percent of sulfur and maximum milligrams of lead, arsenic and iron per kilogram.

6.29

Ethylenediamine dihydroiodide (or EDDI) (IFN 6-01-842)

is an organic compound of formula $\text{C}_2\text{H}_4(\text{NH}_2)_2 \cdot 2\text{HI}$. It shall be labelled with a guarantee for minimum percent of iodine.

6.30

Ferric ammonium citrate (IFN 6-01-857)

is an ammoniacally complexed iron salt of citric acid of indefinite composition sometimes expressed as $\text{Fe}(\text{NH}_4)_3\text{C}_6\text{H}_5\text{O}_7$. It shall be labelled with a guarantee for minimum percent of iron.

6.31

Ferric chloride (IFN 6-01-865)

is the iron salt of hydrochloric acid generally expressed as FeCl_3 and its hydrated forms. It shall be labelled with a guarantee for minimum percent of iron.

6.33

Ferrous carbonate FeCO_3 (or Iron carbonate) (IFN 6-01-863)

is the anhydrous divalent iron salt of carbonic acid. It shall be labelled with guarantees for minimum percent of iron and maximum milligrams of ferric iron per kilogram.

6.34

Ferrous fumarate $\text{FeC}_4\text{H}_2\text{O}_4$ (IFN 6-08-097)

is the iron salt of fumaric acid. It shall be labelled with a guarantee for minimum percent of iron.

6.35

Ferrous gluconate dihydrate $\text{Fe}(\text{C}_6\text{H}_{11}\text{O}_7)_2 \cdot 2\text{H}_2\text{O}$ (or Ferrous gluconate) (IFN 6-01-867)

is the iron salt of gluconic acid generally expressed as $\text{Fe}(\text{C}_6\text{H}_{11}\text{O}_7)_2$ and its hydrated forms. It shall be labelled with a guarantee for minimum percent of iron.

6.36

Ferrous sulfate heptahydrate $\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$ (or Iron sulfate or Copperas) (IFN 6-20-734)

is the heptahydrated divalent iron salt of sulfuric acid. It shall be labelled with guarantees for minimum percent of iron, minimum percent of sulfur and maximum milligrams of lead and ferric iron per kilogram.

6.37

Ferrous sulfate monohydrate $\text{FeSO}_4 \cdot \text{H}_2\text{O}$ (or Dried copperas) (IFN 6-01-869)

is the monohydrated divalent iron salt of sulfuric acid. It shall be labelled with guarantees for minimum percent of iron, minimum percent of sulfur and maximum milligrams of lead and ferric iron per kilogram.

6.41

Limestone ground (or Pulverized limestone) (IFN 6-02-632)

is composed predominantly of calcium carbonate. It shall be labelled with guarantees for minimum percent of calcium and maximum percent of magnesium.

6.42

Magnesium carbonate anhydrous $\text{MgCO}_3 \cdot \text{Mg}(\text{OH})_2$ (IFN 6-02-754)

is the anhydrous double salt of magnesium carbonate and magnesium hydroxide. It shall be labelled with a guarantee for minimum percent of magnesium.

6.43

Magnesium carbonate pentahydrate (or Magnesium carbonate hydroxide) $\text{MgCO}_3 \cdot \text{Mg}(\text{OH})_2 \cdot 5\text{H}_2\text{O}$ (IFN 6-29-798)

is the pentahydrated double salt of magnesium carbonate and magnesium hydroxide. It shall be labelled with a guarantee for minimum percent of magnesium.

6.44

Magnesium carbonate trihydrate $\text{MgCO}_3 \cdot \text{Mg}(\text{OH})_2 \cdot 3\text{H}_2\text{O}$ (IFN 6-08-797)

is the trihydrated double salt of magnesium carbonate and magnesium hydroxide. It shall be labelled with a guarantee for minimum percent of magnesium.

6.45

Magnesium chloride (IFN 6-20-872)

is the magnesium salt of hydrochloric acid generally expressed as $MgCl_2$ and its hydrated forms. It shall be labelled with a guarantee for minimum percent magnesium.

6.46

Magnesium oxide MgO (IFN 6-02-756)

is the anhydrous oxide of magnesium. It shall be labelled with a guarantee for minimum percent of magnesium.

6.47

Magnesium phosphate (IFN 6-23-294)

is the magnesium salt of phosphoric acid generally expressed as $MgHPO_4$ and its hydrated forms. It shall not contain more than one part fluorine to 100 parts phosphorus. It shall be labelled with guarantees for minimum percent magnesium, minimum percent phosphorus and maximum percent fluorine.

6.50

Magnesium sulfate anhydrous MgSO₄ (IFN 6-26-134)

is the anhydrous magnesium salt of sulfuric acid. It shall be labelled with guarantees for minimum percent of magnesium, minimum percent of sulfur and maximum milligrams of lead and iron per kilogram.

6.51

Magnesium sulfate heptahydrate MgSO₄·7H₂O (IFN 6-02-758)

is the heptahydrated magnesium salt of sulfuric acid. It shall be labelled with guarantees for minimum percent of magnesium, minimum percent of sulfur and maximum milligrams of lead and iron per kilogram.

6.52

Manganous oxide MnO (IFN 6-03-054)

is the anhydrous oxide of divalent manganese. It shall be labelled with guarantees for minimum percent of manganese and maximum milligrams of lead, arsenic and iron per kilogram.

6.55

Manganous sulfate monohydrate MnSO₄·H₂O (IFN 6-26-136)

is the monohydrated divalent manganese salt of sulfuric acid. It shall be labelled with guarantees for minimum percent of manganese, minimum percent of sulfur and maximum milligrams of lead and iron per kilogram.

6.56

Manganous sulfate pentahydrate MnSO₄·5H₂O (IFN 6-28-109)

is the pentahydrated divalent manganese salt of sulfuric acid. It shall be labelled with guarantees for minimum percent of manganese, minimum percent of sulfur and maximum milligrams of lead and iron per kilogram.

6.57

Manganous sulfate tetrahydrate MnSO₄·4H₂O (IFN 6-03-050)

is the tetrahydrated divalent manganese salt of sulfuric acid. It shall be labelled with guarantees for minimum percent of manganese, minimum percent of sulfur and maximum milligrams of lead and iron per kilogram.

6.58

Oyster shells ground (or Oyster shell flour) (IFN 6-03-481)

is composed predominantly of calcium carbonate. It shall be labelled with a guarantee for minimum percent of calcium.

6.59

Phosphate defluorinated (or Defluorinated phosphate) (IFN 6-01-780)

includes either calcined, fused, precipitated or reacted calcium phosphate. It shall contain not more than one part fluorine to 100 parts phosphorus. It shall be labelled with guarantees for minimum percent of calcium, minimum percent of phosphorus and maximum milligrams of fluorine per kilogram.

6.60

Phosphoric acid H₃PO₄ (or orthophosphoric acid) (IFN 6-03-707)

is a solution of phosphoric acid in water. It shall be labelled with guarantees for minimum percent of phosphorus and maximum milligrams of fluorine, arsenic and iron per kilogram.

6.61

Potassium bicarbonate (IFN 6-09-337)

is the potassium salt of carbonic acid generally expressed as $KHCO_3$. It shall be labelled with a guarantee for minimum percent potassium.

6.62

Potassium chloride KCl (IFN 6-03-755)

is the anhydrous potassium salt of hydrochloric acid. It shall be labelled with a guarantee for minimum percent of potassium.

6.63

Potassium iodate KIO₃ (IFN 6-08-072)

is the anhydrous potassium salt of iodic acid. It shall be labelled with a guarantee for minimum percent of iodine.

6.64Potassium iodide KI (IFN 6-03-759)is the anhydrous potassium salt of hydriodic acid. It shall be labelled with a guarantee for minimum percent of iodine.**6.65**Potassium and magnesium sulfate $K_2SO_4 \cdot 2MgSO_4$ (IFN 6-06-177)is the double salt of potassium and magnesium sulfates. It shall be labelled with guarantees for minimum percent of potassium, minimum percent of magnesium, minimum percent of sulfur and maximum milligrams of lead and iron per kilogram.**6.66**Potassium sulfate K_2SO_4 (IFN 6-08-098)is the anhydrous potassium salt of sulfuric acid. It shall be labelled with guarantees for minimum percent of potassium, minimum percent of sulfur and maximum milligrams of iron and lead per kilogram.**6.67**Rock phosphate curacao ground (or Curacao rock phosphate) (IFN 6-05-586)is ground phosphate rock. It shall be labelled with guarantees for minimum percent of calcium, minimum percent of phosphorus and maximum milligrams of fluorine per kilogram.**6.68**Salt (or NaCl) (IFN 6-04-152)is the anhydrous sodium salt of hydrochloric acid. If an anticaking agent is used, the common name or names shall be indicated on the label. It shall be labelled with guarantees for minimum percent of sodium and minimum percent of sodium chloride.**6.69**Smectite-vermiculite (or Magnesium-mica) (IFN 6-08-999)is a naturally occurring magnesium, iron and potassium layered aluminum silicate. It shall be labelled with guarantees for minimum percent of magnesium, minimum percent of iron and minimum percent of potassium.**6.70**Sodium acid pyrophosphate (IFN 6-16-830)is the disodium salt of pyrophosphoric acid, generally expressed as $Na_2H_2P_2O_7 \cdot 6H_2O$ and other hydrated forms. It shall not contain more than one part of fluorine to 100 parts phosphorus. It shall be labelled with guarantees for minimum percent of phosphorus, minimum percent of sodium and maximum milligrams of fluorine per kilogram.**6.71**Sodium bicarbonate $NaHCO_3$ (IFN 6-04-272)is the anhydrous monobasic sodium salt of carbonic acid. It shall be labelled with a guarantee for minimum percent of sodium.**6.72**Sodium carbonate (IFN 6-12-316)is the sodium salt of carbonic acid generally expressed as Na_2CO_3 and its hydrated forms. It shall be labelled with a guarantee for minimum percent of sodium.**6.73**Sodium phosphate dibasic Na_2PHO_4 (or Disodium phosphate) (IFN 6-04-286)is the anhydrous dibasic sodium salt of phosphoric acid. It shall be labelled with guarantees for minimum percent of sodium, minimum percent of phosphorus and maximum milligrams of fluorine and iron per kilogram.**6.74**Sodium phosphate monobasic NaH_2PO_4 (or Monosodium phosphate) (IFN 6-04-288)is the anhydrous monobasic sodium salt of phosphoric acid. It shall be labelled with guarantees for minimum percent of sodium, minimum percent of phosphorus and maximum milligrams of fluorine and iron per kilogram.**6.75**Sodium phosphate tribasic Na_3PO_4 (IFN 6-20-871)is the anhydrous tribasic sodium salt of phosphoric acid. It shall be labelled with guarantees for minimum percent of sodium, minimum percent of phosphorus and maximum milligrams of fluorine and iron per kilogram.**6.76**Sodium selenate Na_2SeO_4 (IFN 6-26-014)is the anhydrous sodium salt of selenic acid. It shall be labelled with a guarantee for minimum percent of selenium.**6.77**Sodium selenite Na_2SeO_3 (IFN 6-26-013)is the anhydrous sodium salt of selenious acid. It shall be labelled with a guarantee for minimum percent of selenium.**6.78**Sodium sesquicarbonate (IFN 6-17-895)is the mixed sodium salt of carbonic acid generally expressed as $Na_2CO_3 \cdot NaHCO_3 \cdot 2H_2O$. It shall be labelled with a guarantee for minimum percent of sodium.**6.79**

Sodium sulfate anhydrous Na_2SO_4 (IFN 6-16-022)

is the anhydrous sodium salt of sulfuric acid. It shall be labelled with guarantees for minimum percent of sodium, minimum percent of sulfur and maximum milligrams of lead and iron per kilogram.

6.80

Sodium sulfate decahydrate $\text{Na}_2\text{SO}_4 \cdot 10\text{H}_2\text{O}$ (IFN 6-04-291)

is the decahydrated sodium salt of sulfuric acid. It shall be labelled with guarantees for minimum percent of sodium, minimum percent of sulfur and maximum milligrams of lead and iron per kilogram.

6.81

Sodium tripolyphosphate $\text{Na}_3\text{P}_3\text{O}_{10}$ (IFN 6-08-076)

is the anhydrous sodium salt of trimeric phosphoric acid. It shall be labelled with guarantees for minimum percent of sodium, minimum percent of phosphorus and maximum milligrams of fluorine and iron per kilogram.

6.82

Sulfur (or Flowers of sulfur) (IFN 6-04-705)

is elemental sulfur. It shall be labelled with a guarantee for minimum percent of sulfur.

6.83

Sulfuric acid solution H_2SO_4 (IFN 6-29-778)

is the solution of sulfuric acid in water. It shall be labelled with a guarantee for minimum percent of sulfuric acid.

6.85

Zinc oxide anhydrous ZnO (IFN 6-05-553)

is the anhydrous oxide of zinc. It shall be labelled with guarantees for minimum percent of zinc and maximum milligrams of arsenic, iron and lead per kilogram.

6.88

Zinc sulfate heptahydrate $\text{ZnSO}_4 \cdot 7\text{H}_2\text{O}$ (IFN 6-20-729)

is the heptahydrated zinc salt of sulfuric acid. It shall be labelled with guarantees for minimum percent of zinc and maximum milligrams of arsenic, iron and lead per kilogram.

6.89

Zinc sulfate monohydrate $\text{ZnSO}_4 \cdot \text{H}_2\text{O}$ (IFN 6-05-555)

is the monohydrated zinc salt of sulfuric acid. It shall be labelled with guarantees for minimum percent of zinc and maximum milligrams of arsenic, iron and lead per kilogram.

6.91

Calcium carbonate CaCO_3 , precipitated (or Chalk, precipitated) (IFN 6-01-201)

is a commercial form of calcium carbonate (CaCO_3) produced by chemical means. It shall contain not less than 33 per cent calcium. It shall be labelled with a guarantee for minimum per cent calcium.

6.92

Calcium periodate (IFN 6-09-355)

is the product obtained by mixing calcium iodate and calcium hydroxide or calcium oxide. It shall contain between 28 to 31 per cent by weight of iodine. It shall be labelled with guarantees for minimum milligrams iodine per kilogram, and minimum per cent calcium.

6.96

Iron reduced (IFN 6-02-429)

is the metallic form of iron obtained by reducing ferric oxide with hydrogen. It shall be labelled with a guarantee for minimum per cent iron.

6.97

Limestone, dolomitic, ground (or Dolomitic limestone or Magnesium limestone) (IFN 6-02-633)

is composed predominantly of magnesium and calcium carbonate. It must contain not less than 10 per cent magnesium. It shall be labelled with guarantees for minimum per cent magnesium, and minimum per cent calcium.

6.99

Magnesium gluconate (IFN 6-30-384)

is the magnesium salt of gluconic acid generally expressed as $\text{C}_{12}\text{H}_{22}\text{O}_{14}\text{Mg}$. It shall be labelled with a guarantee for minimum per cent magnesium.

6.100

Magnesium hydroxide (or Magnesium hydrate) (IFN 6-26-012)

is the hydrated form of magnesium, generally expressed as $\text{Mg}(\text{OH})_2$. It shall be labelled with a guarantee for minimum per cent magnesium.

6.104

Potassium phosphate dibasic K_2HPO_4 , (or Dipotassium phosphate) (IFN 6-18-673)

is the anhydrous dibasic potassium salt of phosphoric acid. It shall be labelled with guarantees for minimum per cent potassium, minimum per cent phosphorus and maximum milligrams fluorine, arsenic and iron per kilogram.

6.105

Potassium phosphate monobasic KH_2HPO_4 , (or Monopotassium phosphate) (IFN 6-18-673)

is the anhydrous monobasic potassium salt of phosphoric acid. It shall be labelled with guarantees for minimum per cent potassium, minimum per cent phosphorus and maximum milligrams fluorine, arsenic and iron per kilogram.

6.106

Sodium molybdate (IFN 6-19-300)

is the sodium salt of molybdenum, generally expressed as Na_2MoO_4 and its hydrated forms. It shall be labelled with a guarantee for minimum per cent molybdenum.

6.109

Cobalt glucoheptonate (IFN - - -)

is the cobalt salt of glucoheptonic acid having the chemical formula $\text{C}_{14}\text{H}_{26}\text{O}_{16}\text{COXH}_2\text{O}$. It shall be labelled with a guarantee for minimum percent cobalt.

6.112

Manganous chloride tetrahydrate (or Manganese chloride)(IFN - - -) $\text{MnCl}_2\cdot 4\text{H}_2\text{O}$

is the manganese salt of hydrochloric acid generally expressed as MnCl_2 and its hydrated form. It shall be labelled with a guarantee for minimum percent manganese.

6.113

Monocalcium dicalcium phosphate (or Mono and dicalcium phosphate) (IFN 6- -- --)

is the anhydrous monobasic and dibasic calcium salts of phosphorus acid. It shall be labelled with guarantees for minimum percent of phosphorus, minimum percent of calcium and maximum milligrams of fluorine and iron per kilogram.

6.114

Phosphoric acid on carrier (or Orthophosphoric acid on carrier) (IFN-6 - -)

is a solution of phosphoric acid applied to a suitable carrier. The carrier(s) used shall be indicated on the label. It shall be labelled with guarantees for minimum percent of phosphorus and maximum milligrams of fluorine, arsenic and iron per kilogram.

6.115

Manganese carbonate (IFN 6-03-036)

is the manganese salt of carbonic acid generally expressed as MnCO_3 and its hydrated forms. It shall be labelled with a guarantee for minimum percent manganese.

6.116

Sodium iodide (IFN 6-04-279)

is the sodium salt of hydriodic acid generally expressed as NaI . It shall be labelled with guarantee for minimum percent sodium and minimum percent iodine.

6.119

Manganous sulfate trihydrate $\text{MnSO}_4\cdot 3\text{H}_2\text{O}$ (IFN -- -- ---)

is the trihydrated divalent manganese salt of sulfuric acid. It shall be labelled with guarantees for minimum percent manganese, minimum percent sulfur and maximum milligrams lead and iron per kilogram.

6.120

Copper Gluconate (or Cupric Gluconate) (IFN 6-01-707)

is the copper salt of gluconic acid, generally expressed as $\text{Cu}(\text{C}_6\text{H}_{11}\text{O}_7)_2$, and its hydrated forms. It shall be labelled with a guarantee for minimum copper.

6.121

Cobalt Gluconate (IFN 6-19-210)

is the cobalt salt of gluconic acid, generally expressed as $\text{Co}(\text{C}_6\text{H}_{11}\text{O}_7)_2$, and its hydrated forms. It shall be labelled with a guarantee for minimum cobalt.

6.122

Potassium carbonate K_2CO_3 (IFN 6-09-336)

is a potassium salt of carbonic acid generally expressed as K_2CO_3 . Minimum potassium (K) must be specified.

6.123

Dried Egg Shell Meal (egg shell meal dehydrated)

is a product obtained from drying and crushing chicken egg shells, exclusive of albumen, yolk, and whole egg except in such amounts as may occur unavoidably in good manufacturing practice. It is predominantly calcium carbonate. It shall be labelled with a guarantee for minimum per cent calcium.

CLASS 7. VITAMIN PRODUCTS AND YEAST PRODUCTS7.1 Vitamin Products**7.1.1**

p-Aminobenzoic acid (or Aminobenzoic acid, p-) (IFN 7-03-513)
is para-aminobenzoic acid. It shall be labelled with a guarantee for minimum milligrams of para-aminobenzoic acid per kilogram.

7.1.2

Ascorbic acid (IFN 7-00-433)
is vitamin C. It shall be labelled with a guarantee for minimum milligrams of ascorbic acid per kilogram.

7.1.3

Betaine hydrochloride (IFN 7-00-722)
is the hydrochloride of betaine. It shall be labelled with a guarantee for minimum milligrams of betaine hydrochloride per kilogram.

7.1.4

d-Biotin (or Biotin, d-) (IFN 7-00-723)
is hexahydro-2-oxo-1H-thieno 3,4-d imidazole-4-pentanoic acid. It shall be labelled with a guarantee for minimum milligrams of d-biotin per kilogram.

7.1.5

Calcium d-pantothenate (IFN 7-01-079)
is the calcium salt of d-pantothenic acid. It shall be labelled with a guarantee for minimum milligrams of calcium d-pantothenate per kilogram. It shall also be labelled with a statement indicating the equivalent minimum milligrams of d-pantothenic acid per kilogram.

7.1.6

Calcium dl-pantothenate (IFN 7-17-904)
is the calcium salt of racemic dl-pantothenic acid. It shall be labelled with a guarantee for minimum milligrams of calcium dl-pantothenate per kilogram. It shall also be labelled with a statement indicating the equivalent minimum milligrams of d-pantothenic acid per kilogram.

7.1.7

Choline chloride solution (IFN 7-17-881)
is an aqueous solution of choline chloride. It shall be labelled with a guarantee for minimum milligrams of choline chloride per kilogram. It shall also be labelled with a statement indicating the equivalent minimum milligrams of choline per kilogram.

7.1.8

Choline chloride with carrier (IFN 7-17-900)
is aqueous choline chloride applied to a suitable carrier. The carrier(s) and any anticaking agent used shall be indicated on the label. It shall be labelled with guarantees for minimum milligrams of choline chloride per kilogram and maximum percent moisture. It shall also be labelled with a statement indicating the equivalent minimum milligrams of choline per kilogram.

7.1.9

(Moved to 4.5.23 August 30, 2005)

7.1.10

Folic acid (or Folacin) (IFN 7-02-066)
is N-[4-[[[2-amino-1,4-dihydro-4-oxo-6-pteridiny]methyl]amino]benzoyl]-L-glutamic acid. It shall be labelled with a guarantee for minimum milligrams of folic acid per kilogram.

7.1.11

Inositol (IFN 7-09-354)
is cyclohexanehexol, also referred to as i-inositol or meso-inositol. It shall be labelled with a guarantee for minimum milligrams of inositol per kilogram.

7.1.12

Menadione dimethylpyrimidinol bisulphite (IFN 7-08-102)
is the dimethylpyrimidinol salt of menadione. It shall be labelled with a guarantee for minimum milligrams of menadione per kilogram.

7.1.13

Menadione sodium bisulphite (IFN 7-03-077)
is the addition product of menadione and sodium bisulphite containing not less than 50 percent of menadione. It shall be labelled with a guarantee for minimum milligrams of menadione per kilogram.

7.1.14

Menadione sodium bisulphite complex (IFN 7-03-078)
is the bisulphite salt of menadione. It shall be labelled with a guarantee for minimum milligrams of menadione per kilogram.

7.1.15

Niacin (or Nicotinic acid) (IFN 7-03-219)
is 3-pyridinecarboxylic acid. It shall be labelled with a guarantee for minimum milligrams of niacin per kilogram.

7.1.16

Niacinamide (or Nicotinamide) (IFN 7-03-215)

is the amide of nicotinic acid. It shall be labelled with a guarantee for minimum milligrams of niacinamide per kilogram. It shall also be labelled with a statement indicating the equivalent minimum milligrams of niacin per kilogram.

7.1.17

Pyridoxine hydrochloride (IFN 7-03-822)

is the hydrochloride of pyridoxine. It shall be labelled with a guarantee for minimum milligrams of pyridoxine hydrochloride per kilogram. It shall also be labelled with a statement indicating the equivalent minimum milligrams of pyridoxine per kilogram.

7.1.18

Riboflavin (IFN 7-03-920)

is 7,8-dimethyl-10-(D-ribo-2,3,4,5-tetrahydro xypentyl) isoalloxazine. It shall be labelled with a guarantee for minimum milligrams of riboflavin per kilogram.

7.1.19

Riboflavin-5'-phosphate sodium (IFN 7-17-901)

is the sodium salt of the phosphate ester of riboflavin. It shall be labelled with a guarantee for minimum milligrams of riboflavin-5'-phosphate sodium per kilogram. It shall also be labelled with a statement indicating the equivalent minimum milligrams of riboflavin per kilogram.

7.1.20

Thiamine hydrochloride (IFN 7-04-828)

is the hydrochloride of thiamine. It shall be labelled with a guarantee for minimum milligrams of thiamine hydrochloride per kilogram.

7.1.21

Thiamine mononitrate (IFN 7-04-829)

is the mononitrate of thiamine. It shall be labelled with a guarantee for minimum milligrams of thiamine mononitrate per kilogram. It shall also be labelled with a statement indicating the equivalent minimum milligrams of thiamine hydrochloride per kilogram.

7.1.22

Vitamin B₁₂ (IFN 7-05-146)

is cyanocobalamin. It shall be labelled with a guarantee for minimum milligrams of vitamin B₁₂ per kilogram.

7.1.23

Sodium ascorbate (IFN 7-00-433)

is the sodium salt of ascorbic acid. It shall be labelled with a guarantee for minimum milligrams of sodium ascorbate per kilogram. It shall also be labelled with a statement indicating the equivalent minimum milligrams of ascorbic acid per kilogram.

7.1.24

L-Ascorbyl-2-polyphosphate (or Ascorbic acid polyphosphate) (IFN 7-32-162)

is the tri-, di-, and mono- phosphate esters of L-ascorbic acid. It shall be labelled with one or both of the following statements: "This product is for use as a source of ascorbic acid in livestock and fish feeds"; and/or «Ce produit doit être utilisé comme une source d'acide ascorbique dans les aliments pour les bétails ou les poissons.» It shall be labelled with guarantees for minimum milligrams of phosphorylated ascorbic acid per kilogram. It shall be labelled with a statement indicating the equivalent minimum milligrams of ascorbic acid per kilogram.

7.1.25

Di-sodium-L-ascorbate-2-sulphate (IFN 7-30-458)

is the disodium salt of L-ascorbate-2-sulphate. It shall be labelled with one or both of the following statements:

"This product is for use as a source of ascorbic acid for salmon and trout feeds"; or

«Ce produit doit être utilisé comme une source d'acide ascorbique dans les aliments pour les saumons et les truites.»

It shall be labelled with a guarantee for minimum milligrams of ascorbate-2-sulphate per kilogram. It shall also be labelled with a guarantee for equivalent minimum milligrams of ascorbic acid per kilogram.

7.1.26

Choline bitartrate (IFN 7-18-674)

is a non-hygroscopic source of choline containing 46.9 per cent choline. It shall be labelled with a guarantee for minimum choline bitartrate.

7.1.27

Betaine (IFN 7-32-193)

is the inner salt of 1-carboxy-N,N,N-trimethylmethanaminium hydroxide and which can be either in a liquid (prior to crystallisation) or solid (anhydrous) form. It shall be labelled with a guarantee for minimum milligrams betaine per kilogram.

7.1.28

Acetomenaphthone (or Menadiol diacetate, or Vitamin K₃) (IFN 7-32-194)

is a product which contains a minimum of 98 per cent 2-methyl-1, 4-naphthalenedial diacetate. It shall be labelled with a guarantee for minimum milligrams of menadiol diacetate per kilogram. It shall also be labelled with a statement indicating the equivalent minimum milligrams menadione per kilogram.

7.1.29

Menadione nicotinamide bisulfite (IFN - - -)

is the salt obtained from the precipitation of a mixture of menadione sodium bisulphite, nicotinamide hydrochloric acid and water. It shall be labelled with guarantees for minimum milligrams of menadione per kilogram. It shall also be labelled with a statement indicating the equivalent minimum milligrams of niacin per kilogram.

7.1.30

L-Ascorbic acid-2-monophosphate-calcium salt (or Ascorbic acid monophosphate) (IFN --)

is the mono-phosphate ester of L-ascorbic acid in the calcium salt form. It shall be labelled with one or both of the following statements:

"This product is for use as a source of ascorbic acid in fish feeds"; or

«Ce produit doit être utilisé comme une source d'acide ascorbique dans les aliments pour les poissons.»

It shall be labelled with guarantees for minimum milligrams of phosphorylated ascorbic acid per kilogram. It shall also be labelled with a statement indicating the equivalent minimum milligrams of ascorbic acid per kilogram.

7.1.31

Vitamin A (IFN 7-05-142)

is an acetate ester, a palmitate ester, a propionate ester or a mixture of these esters of retinol formulated in an organic matrix. It shall be labelled with a guarantee for minimum international units of vitamin A per kilogram.

7.2 Yeast Products

7.2.2

Yeast brewers dehydrated (IFN 7-05-527)

is the dried, non-fermentative, non-extracted yeast produced from an unmodified strain of the botanical classification Saccharomyces resulting as a by-product from the brewing of beer and ale. It shall be labelled with one or both of the following statements:

"This product is not a source of viable Saccharomyces cells"; or

«Ce produit n'est pas une source de cellules de Saccharomyces vivantes.»

It shall also be labelled with guarantees for minimum crude protein, maximum crude fibre and maximum moisture.

7.2.3

Yeast culture dehydrated (IFN 7-05-520)

is the dried product composed of yeast produced from an unmodified strain of the botanical classification Saccharomyces and the medium in which it is grown. Such media shall not be fortified with levels of minerals and vitamins above those required for optimal growth of the yeast cells. The media shall be stated on the label. It shall be labelled with one or both of following statements:

"This product is not a source of viable Saccharomyces cells"; or

«Ce produit n'est pas une source de cellules de Saccharomyces vivantes.»

It shall be labelled with guarantees for minimum crude protein, maximum crude fibre and maximum moisture.

7.2.4

Yeast irradiated dehydrated (IFN 7-05-529)

is dried, non-fermentative yeast produced from an unmodified strain of the botanical classification Saccharomyces that has been subjected to ultraviolet rays to produce antirachitic potency. The media in which the yeast is grown shall not be fortified with levels of minerals and vitamins above those required for optimal growth of the yeast cells. It shall be labelled with one or both of the following statements:

"This product is not a source of viable Saccharomyces cells"; or

«Ce produit n'est pas une source de cellules de Saccharomyces vivantes.»

It shall also be labelled with guarantees for minimum crude protein, maximum crude fibre and maximum moisture.

7.2.5

Yeast primary dehydrated (IFN 7-05-533)

is dried, non-fermentative yeast produced from an unmodified strain of the botanical classification Saccharomyces that is separated from the medium in which it is propagated. The media in which the yeast is grown shall not be fortified with levels of minerals and vitamins above those required for optimal growth of the yeast cells. It shall be labelled with one or both of the following statements:

"This product is not a source of viable Saccharomyces cells"; or

«Ce produit n'est pas une source de cellules de Saccharomyces vivantes.»

It shall also be labelled with guarantees for minimum crude protein, maximum crude fibre and maximum moisture.

7.2.6

Yeast torula dehydrated (IFN 7-05-534)

is dried, non-fermentative yeast produced from an unmodified strain of the botanical classification Torulopsis that is separated from the medium in which it is propagated. The media in which the yeast is grown shall not be fortified with levels of minerals and vitamins above those required for optimal growth of the yeast cells. It shall be labelled with one or both of the following statements:

"This product is not a source of viable Torulopsis cells"; or

«Ce produit n'est pas une source de cellules de Torulopsis vivantes.»

It shall also be labelled with guarantees for minimum crude protein, maximum crude fibre and maximum moisture.

7.2.7

Yeast autolysate dehydrated (IFN 7-30-385)

is the dried enzymatic digest of primary grown yeast produced from an unmodified strain of the botanical classification Saccharomyces using an autolysis process. The media in which the yeast is grown shall not be fortified with levels of minerals and vitamins above those required for optimal growth of the yeast cells. It shall be labelled with one or both of the following statements:

"This product is not a source of viable Saccharomyces cells"; or

«Ce produit n'est pas une source de cellules de Saccharomyces vivantes.»

It shall also be labelled with guarantees for minimum crude protein, maximum crude fibre and maximum moisture.

7.2.9

Yeast brewers liquid (IFN 7-20-878)

is the non-fermentative, non-extracted yeast produced from an unmodified strain of the botanical classification Saccharomyces resulting as a by-product from the brewing of beer and ale. It shall contain not less than 35 percent crude protein on a dry matter basis. It shall be labelled with one or both of the following statements:

"This product is not for use as a source of viable Saccharomyces cells"; or

«Ce produit n'est pas une source de cellules de Saccharomyces vivantes.»

It shall also be labelled with guarantees for minimum crude protein, maximum crude fibre and maximum moisture.

CLASS 8. MISCELLANEOUS PRODUCTS**8.1**

Acetic acid (IFN 8-19-655)
is ethanoic acid.

8.2

Animal bone collagen hydrolysed (IFN 8-16-472)

is the dried ground collagen colloid obtained after removal of the fat and minerals from the hydrolysis of clean undecomposed ground beef bone under heat and pressure. It shall be labelled with one or both of the following statements:

"This product is for use in feeds as a pelleting aid. Consult the Compendium of Medicating Ingredient Brochures for acceptable drug compatibilities with this product"; or

«Ce produit est destiné à être utilisé comme agent de pelletisation dans les aliments du bétail. Consulter le Recueil des notices sur les substances médicamenteuses pour connaître les compatibilités de médicaments acceptables avec ce produit.»

If the product contains "prohibited material", it shall be labelled with the statement(s) "Do not feed to cattle, sheep, deer or other ruminants" and/or « Ne pas nourrir les bovins, les ovins, les chevreuils ni d'autres ruminants de ce produit »

8.3

Ascorbyl palmitate (IFN 8-26-245)
is 6-hexadecanoate L-ascorbic acid.

8.4

Barley malt flour dehydrated (or Dried barley malt flour or Malted barley flour of Malt diastase) (IFN8-16-303)

is obtained by milling cleaned malted barley for the production of diastase. It shall be labelled with guarantees for minimum amylase enzyme activity.

8.5

Bentonite calcium (IFN 8-00-695)

is a naturally occurring mineral consisting primarily of montmorillonite (a tri-layered aluminum silicate). It contains calcium as the predominant available or exchange ion. It shall be labelled with one or both of the following statements:

"This product is for use in feeds as an anticaking agent or pelleting aid in an amount not to exceed 2 percent of the total diet. Consult the Compendium of Medicating Ingredient Brochures for acceptable drug compatibilities with this product."; or

«Ce produit est destiné à être utilisé comme agent antiagglutinant ou de pelletisation dans les aliments du bétail, en quantité ne devant pas dépasser 2 pour cent de la ration totale. Consulter le Recueil des notices sur les substances médicamenteuses pour connaître les compatibilités de médicaments acceptables avec ce produit.»

It shall also be labelled with guarantees for minimum calcium and maximum moisture.

8.6

Bentonite sodium (IFN 8-14-512)

is a naturally occurring mineral consisting primarily of montmorillonite (a tri-layered aluminum silicate). It contains sodium as the predominant available or exchange ion. It shall be labelled with one or both of the following statements:

"This product is for use in feeds as an anticaking agent or pelleting aid in an amount not to exceed 2 percent of the total diet. Consult the Compendium of Medicating Ingredient Brochures for acceptable drug compatibilities with this product."; or

«Ce produit est destiné à être utilisé comme agent antiagglutinant ou de pelletisation dans les aliments du bétail, en quantité ne devant pas dépasser 2 pour cent de la ration totale. Consulter le Recueil des notices sur les substances médicamenteuses pour connaître les compatibilités de médicaments acceptables avec ce produit.»

It shall also be labelled with guarantees for minimum sodium and maximum moisture.

8.7

Benzoic acid (IFN 8-26-244)

is benzenecarboxylic acid. It shall be labelled with one or both of the following statements:

"This product is for use as a preservative in an amount not to exceed 0.1 percent."; or

«Ce produit est destiné à être utilisé comme agent de conservation en quantité ne devant pas dépasser 0,1 pour cent.»

8.8

Brilliant Blue FCF lake (or FD & C Blue No. 1 lake)(IFN 8-15-911)

is the disodium salt of N-ethyl-N-(4-((4-(ethyl((3-sulfophenyl)methyl)amino) phenyl)methylene)-2,5-cyclohexadien-1-ylidene) -3-sulfobenzenemethanaminium hydroxide inner salt and is a colouring agent. It shall be labelled with a guarantee for minimum primary dye content.

8.9

Butylated hydroxyanisole (or Butylated hydroxyanisole (BHA)) (IFN 8-01-044)

is 2-5-butyl-4-methoxy phenol. It shall be labelled with one or both of the following statements:

"This product is for use as an antioxidant at a level not to exceed 0.02 percent (butylated hydroxyanisole plus butylated hydroxytoluene) of the fat or oil content of the complete feed"; or

«Ce produit est destiné à être utilisé comme antioxydant en quantité totale (hydroxyanisole butylique plus hydroxytoluène butylique) ne devant pas dépasser 0,02 pour cent de la teneur totale en matières grasses ou en huile de l'aliment complet du bétail.»

It shall also be labelled with a guarantee for minimum butylated hydroxyanisole.

8.10

Butylated hydroxytoluene (or Butylated hydroxytoluene (BHT)) (IFN 8-01-045)

is 2,6-di-tert-butyl para cresol. It shall be labelled with one or both of the following statements:

"This product is for use as an antioxidant at a level not to exceed 0.02 percent (butylated hydroxyanisole plus butylated hydroxytoluene) of the fat or oil content of the complete feed"; or

«Ce produit est destiné à être utilisé comme antioxydant en quantité totale (hydroxyanisole butylique plus hydroxytoluène butylique) ne devant pas dépasser 0,02 pour cent de la teneur totale en matières grasses ou en huile de l'aliment complet du bétail.»

It shall also be labelled with a guarantee for minimum butylated hydroxytoluene.

8.11

Calcium acetate (IFN 8-15-814)

is the calcium salt of acetic acid.

8.12

Calcium propionate (IFN 8-01-085)

is the calcium salt of propionic acid. It shall be labelled with a guarantee for minimum calcium propionate.

8.13

Calcium silicate CaSiO_3 (IFN 8-08-043)

is the calcium salt of silicic acid. It shall be labelled with one or both of the following statements:

"This product is for use as an anticaking agent in feeds in an amount not to exceed 2 percent of the finished feed";

or

«Ce produit est destiné à être utilisé comme agent antiagglutinant dans les aliments du bétail, en quantité ne devant pas dépasser 2 pour cent de l'aliment fini.»

8.14

Calcium stearate $\text{Ca}(\text{C}_{17}\text{H}_{33}\text{O}_2)_2$ (IFN 8-09-345)

is the calcium salt of octadecanoic acid.

8.15

Citric acid (IFN 8-01-233)

is 2-hydroxy-1,2,3-propanetricarboxylic acid.

8.16

Diatomaceous earth (IFN 8-09-363)

consists of siliceous skeletal material derived from various species of diatoms. It shall be labelled with one or both of the following statements:

"This product is for use as an inert carrier or anticaking agent in feeds in an amount not to exceed 2 percent of the total diet"; or

«Ce produit est destiné à être utilisé comme support inerte ou agent antiagglutinant dans les aliments du bétail, en quantité ne devant pas dépasser 2 pour cent de la ration totale.»

8.17

Disodium EDTA $\text{C}_{10}\text{H}_{14}\text{O}_8\text{N}_2\text{Na}_2 \cdot 2\text{H}_2\text{O}$ (or Disodium ethylenediamine tetraacetate) (IFN 8-05-689)

is N,N'-1,2-Ethanediylibis (N-(carboxymethyl) glycine) disodium salt. It shall be labelled with one or both of the following statements:

"This product is for use as a sequestering or chelating agent in an amount not to exceed 0.024 percent of the finished feed"; or

«Ce produit est destiné à être utilisé comme agent séquestrant ou chélateur, en quantité ne devant pas dépasser 0,024 pour cent de l'aliment fini.»

8.18

Ethoxyquin (IFN 8-01-841)

is 1,2-dihydro-6 ethoxy- 2,2,4-tri-methylquinoline. It shall be labelled with one or both of the following statements:

"This product is for use as an antioxidant in feeds in an amount not to exceed 0.015 percent of the total diet"; or

«Ce produit est destiné à être utilisé comme antioxydant dans les aliments du bétail, en quantité ne devant pas dépasser 0,015 pour cent de la ration totale.»

It shall also be labelled with a guarantee for minimum ethoxyquin.

8.19

Ferric oxide (or Iron oxide) (IFN 6-02-431)

is the anhydrous oxide of iron present in several valencies and colours generally expressed as Fe_2O_3 (trivalent).

8.20

Formic acid HCOOH (IFN 8-20-739)

is an organic acid.

8.21

Glycerol (or Glycerin) (IFN 8-19-674)

is 1,2,3-propanetriol.

8.22

Glycerol mono-oleate (IFN 8-15-844)

is 9-octadecanoic acid mono-ester with 1,2,3-propanetriol.

- 8.23**
Glyceryl triacetate (or Triacetin) (IFN 8-19-675)
 is 1,2,3-propanetriol triacetate.
- 8.24**
Guar mucilage (or Guar gum) (IFN 4-28-796)
 is the substance obtained by grinding the endosperms derived from the plant source Cyamopsis tetragonolobus.
- 8.25**
Isoamyl alcohol (or Isopentyl alcohol) (IFN 8-15-919)
 is 3-methyl-1-butanol.
- 8.26**
Isopropyl alcohol (or Isopropanol) (IFN 8-15-850)
 is 2-propanol.
- 8.27**
DL-Lactic acid (or Lactic Acid, DL-) (IFN 8-26-409)
 is 2-hydroxypropanoic acid ($\text{CH}_3\text{CH}(\text{OH})\text{COOH}$)
- 8.29**
Lignin sulfonate condensed (IFN 8-29-786)
 consists of either one or a combination of the ammonium, calcium, magnesium or sodium salts of the extract of spent sulfite liquor derived from the sulfite digestion of wood or of abaca (Musa textilis). The moisture content of this product shall not exceed 50 percent by weight. It shall be labelled with one or both of the following statements:
 "This product is for use in feeds as a pelleting aid in amounts calculated on a dry weight basis not to exceed 4 percent of the finished pellets. Consult the Compendium of Medicating Ingredient Brochures for acceptable drug compatibilities with this product"; or
 «Ce produit est destiné à être utilisé comme agent de pelletisation dans les aliments du bétail, en quantité ne devant pas dépasser 4 pour cent dans les agglomérés finis. Consulter le Recueil des notices sur les substances médicamenteuses pour connaître les compatibilités de médicaments acceptables avec ce produit.»
 It shall also be labelled with guarantees for maximum ash and minimum total solids.
- 8.30**
Lignin sulfonate dehydrated (IFN 8-02-627)
 consists of either one or a combination of the ammonium, calcium, magnesium or sodium salts of the extract of spent sulfite liquor derived from the sulfite digestion of wood or of abaca (Musa textilis). It is dried by thermal means so that the moisture content does not exceed 6 percent by weight. It shall be labelled with one or both of the following statements:
 "This product is for use in feeds as a pelleting aid in amounts calculated on a dry weight basis not to exceed four percent of the finished pellets. Consult the Compendium of Medicating Ingredient Brochures for acceptable drug compatibilities with this product"; or
 «Ce produit est destiné à être utilisé comme agent de pelletisation dans les aliments du bétail, en quantité ne devant pas dépasser quatre pour cent dans les agglomérés finis. Consulter le Recueil des notices sur les substances médicamenteuses pour connaître les compatibilités de médicaments acceptables avec ce produit.»
 It shall also be labelled with guarantees for maximum ash and maximum moisture.
- 8.31**
Magnesium stearate $\text{Mg}(\text{C}_{18}\text{H}_{35}\text{O}_2)_2$ (IFN 8-17-908)
 is the magnesium salt of octadecanoic acid.
- 8.32**
Methylparaben (or Methyl p-hydroxybenzoate) (IFN 8-03-088)
 is 4-hydroxybenzoic acid methyl ester. It shall be labelled with one or both of the following statements:
 "This product is for use as a mold inhibitor in feeds in an amount not to exceed 0.1 percent of the total diet"; or
 «Ce produit est destiné à être utilisé comme inhibiteur de moisissure dans les aliments du bétail, en quantité ne devant pas dépasser 0,1 pour cent de la ration totale.»
- 8.33**
Mineral oil (IFN 8-03-123)
 is a refined petroleum product. It shall be labelled with one or both of the following statements:
 "This product is for use as an aid in dust control and as a lubricant in an amount not to exceed 3 percent in mineral premixes and mineral feeds and at a level not to exceed 0.06 percent of the complete feed"; or
 «Ce produit est destiné à être utilisé pour réduire la poussière et comme lubrifiant, en quantité ne devant pas dépasser 3 pour cent dans les mélanges de minéraux et les aliments minéraux, et 0,06 pour cent de l'aliment complet.»
 It shall also be labelled to indicate the viscosity in centistokes at 40° C and to indicate freedom from polycyclic aromatic hydrocarbons.
- 8.34**
Mono- and diglycerides of edible fats or oils (or Mono- and diglycerides) (IFN 8-07-251)
 consists of a mixture of monoglycerides and diglycerides.

8.35Perlite (IFN 8-26-242)

is the expanded, powdered form of a glassy volcanic rock, consisting of fused sodium potassium aluminum silicate. It shall be labelled with one or both of the following statements:

"This product is for use in an amount not to exceed 4 percent of the finished material"; or

«Ce produit est destiné à être utilisé en quantité ne devant pas dépasser 4 pour cent de l'aliment fini.»

8.36Polyethylene glycol 400 mono and di-oleate (or PEG 400 mono and di-oleate) (IFN 8-09-348)

is the polyethylene glycol salt of mono and di-oleic acid or both. Polyethylene glycol is expressed as $H(OCH_2CH_2)_nOH$, where the average n value is between 8.2 and 9.1.

8.37Polysorbate 60 (or Tween 60) (IFN 8-08-032)

is polyoxyethylene (20) sorbitan mono-stearate.

8.38Polysorbate 80 (or Tween 80) (IFN 8-08-031)

is polyoxyethylene (20) sorbitan mono-oleate.

8.39Polyvinylpyrrolidone (IFN 8-16-023)

is a synthetic water soluble polymer consisting essentially of linear 1-vinyl-2-pyrrolidone groups. It is used as a solubilizer, stabilizer and viscosity modifier in solutions and suspensions, and as a pelleting aid in fish feeds.

8.40Potassium sorbate (IFN 8-03-761)

is the potassium salt of 2,4-hexadienoic acid.

8.41Propionic acid CH_3CH_2COOH (IFN 8-03-807)

is an organic acid.

8.42n-Propyl alcohol (or Propyl alcohol, n-) (IFN 8-15-858)

is 1-propanol. Used as a solvent in flavours.

8.43Propylene glycol (IFN 8-03-809)

is 1,2-propanediol and is an emulsifying agent.

8.44Propyl gallate (IFN 8-03-808)

is the n-propyl ester of 3,4,5-trihydroxybenzoic acid. It shall be labelled with one or both of the following statements:

"This product is for use as an antioxidant at a level not to exceed 0.02 percent of the fat or oil content of the feed";

or

«Ce produit est destiné à être utilisé comme antioxydant, en quantité ne devant pas dépasser 0,02 pour cent du contenu total en gras ou en huile de l'aliment du bétail.»

It shall also be labelled with a guarantee for minimum propyl gallate.

8.45Propylparaben (or Propyl p-hydroxybenzoate) (IFN8-03-810)

is 4-hydroxybenzoic acid propyl ester. It shall be labelled with one or both of the following statements:

"This product is for use as a mold inhibitor in feeds in an amount not to exceed 0.1 percent of the total diet"; or

«Ce produit est destiné à être utilisé comme inhibiteur de moisissure dans les aliments du bétail, en quantité ne devant pas dépasser 0,1 pour cent de la ration totale.»

8.46Saccharin sodium (IFN 8-04-103)

is an organic compound containing sodium generally expressed as $C_7H_4NNaO_3S$. It shall be labelled with one or both of the following statements:

"This non-nutritive sweetener shall not be used in lactating dairy feeds"; or

«Cet aromatisant, sans valeur nutritive, ne doit pas être utilisé dans les aliments destinés aux vaches laitières en lactation.»

It shall also be labelled with a guarantee for minimum sodium saccharin.

8.47Seaweed meal whole dehydrated (or Dried seaweed meal)(IFN 1-08-073)

is the product resulting from drying and grinding non-toxic macroscopic marine algae (marine plants) of the families Gelidiaceae, Gigartiniaceae, Gracilariaceae, Solieriaceae, Palmariaceae, Bangiaceae, Laminariaceae, Lessoniaceae, Alariaceae, Fucoaceae, Sargassaceae, Monostromataceae and Ulvaceae. The family or families must be listed after the name Seaweed Meal. It shall be labelled with guarantees for maximum percent salt (NaCl), maximum percent crude fibre, maximum percent iodine, maximum percent sulfate and minimum percent potassium.

8.48Silica gel (IFN 8-15-816)

is the dehydrated gel produced by mixing sodium or potassium silicate solution with an acid solution.

8.49

Silicon dioxide SiO_2 (IFN 8-08-034)

is silicic anhydride. It shall be labelled with one or both of the following statements:

"This product is for use as an anticaking agent or grinding aid in feeds in an amount not to exceed 2 percent of the total diet"; or «Ce produit est destiné à être utilisé comme antiagglutinant ou adjuvant de mouture dans les aliments du bétail, en quantité ne devant pas dépasser 2 pour cent de la ration totale.»

8.50

Sodium acetate (IFN 8-15-817) is the sodium salt of acetic acid.

8.51

Sodium aluminosilicate (IFN 8-08-101)

is $\text{Na}_2\text{O}\cdot\text{Al}_2\text{O}_3\cdot 2\text{SiO}_2\cdot\text{H}_2\text{O}$. It shall be labelled with one or both of the following statements:

"This product is for use in an amount not to exceed 2 percent of the finished feed"; or «Ce produit est utilisé en quantité ne devant pas dépasser 2 pour cent de l'aliment fini.»

8.52

Sodium benzoate (IFN 8-04-271)

is the sodium salt of benzoic acid. It shall be labelled with one or both of the following statements:

"This product is for use as a mold inhibitor in feeds in an amount not to exceed 0.1 percent of the total diet"; or «Ce produit est destiné à être utilisé comme inhibiteur de moisissure dans les aliments du bétail, en quantité ne devant pas dépasser 0,1 pour cent de la ration totale.»

8.53

Sodium carboxymethylcellulose (or Sodium celluloseglycolate) (IFN 8-08-100)

is the sodium salt of carboxymethylcellulose not less than 99.5 percent on a dry weight basis. It shall be labelled with one or both of the following statements:

"This product is for use as a stabilizer in an amount not to exceed 2 percent in the finished feed"; or «Ce produit est destiné à être utilisé comme agent de stabilisation, en quantité ne devant pas dépasser 2 pour cent de l'aliment fini.»

8.54

Sodium citrate (IFN 8-19-656)

is the sodium salt of citric acid.

8.55

Sodium diacetate $\text{CH}_3\text{COONa}\cdot\text{CH}_3\text{COOH}$ (IFN 8-15-815)

is the sodium salt of acetic acid in a 1:2 ratio.

8.56

Sodium ferrocyanide (or Yellow prussiate of soda) (IFN 8-05-697)

is yellow prussiate of soda. It shall be labelled with one or both of the following statements:

"This product is for use as an anticaking agent in salt in an amount not to exceed 0.0013 percent (13 ppm)"; or «Ce produit est destiné à être utilisé dans le sel comme antiagglutinant, en quantité ne devant pas dépasser 0,0013 pour cent (13 ppm).»

8.57

Sodium hydroxide solution NaOH (IFN 8-19-657)

is an aqueous solution of sodium hydroxide. It shall be labelled with a guarantee for minimum sodium hydroxide.

8.58

Sodium propionate $\text{CH}_3\text{CH}_2\text{COONa}$ (IFN 8-04-289)

is the sodium salt of propionic acid.

8.59

Sorbic acid (IFN 8-04-297)

is 2,4-hexadienoic acid.

8.60

Sorbitol (IFN 8-16-024)

is a substance prepared industrially from glucose by high pressure hydrogenation or by electrolytic reduction.

8.62

L-Tartaric acid $\text{HO}_2\text{CCH(OH)CH(OH)CO}_2\text{H}$ (IFN 8-19-658)

is L-2, 3-dihydroxybutanedioic acid.

8.63

Tartrazine lake (or FD & C Yellow No. 5 lake) (IFN 8-15-912)

is the trisodium salt of 4,5-dihydro-5-oxo-1-(4-sulfophenyl)-4-((4-sulfophenyl)azo)-1H-pyrazole-3-carboxylic acid and is a colouring agent. It shall be labelled with a guarantee for minimum primary dye content.

8.64

Tumeric, tubers, dehydrated (IFN 8-29-671)

is the dried rhizome derived from the plant source Curcuma longa and is a colouring agent.

8.66

Verxite, granules (or Hydrobiotite or Magnesium-aluminum-iron silicate) (IFN 8-08-993) is a magnesium-iron-aluminum silicate containing a minimum of 98 percent hydrobiotite. It shall be labelled with one or both of the following statements:

"This product is for use in an amount not to exceed 5 percent of the finished feed"; or
 «Ce produit est destiné à être utilisé en quantité ne devant pas dépasser 5 pour cent de l'aliment fini.»

8.67

Xanthan gum (IFN 8-15-818)

is a polysaccharide gum derived from a non-pathogenic strain of the microorganism Xanthomonas campestris, purified by recovery with isopropyl alcohol. The dominant hexose units are d-glucose, d-mannose and d-glucuronic acid as the sodium, potassium or calcium salts. It shall be free from viable microbial cells. It shall not contain more than 750 parts per million residual isopropyl alcohol. It shall be labelled with one or both of the following statements:

"This product is for use as an emulsifier, stabilizer or thickener in feeds in an amount not to exceed 0.1 percent in calf milk replacer and 0.25 percent in liquid feed supplements for ruminant animals"; or
 «Ce produit est destiné à être utilisé comme émulsifiant, stabilisant ou épaississeur dans les aliments du bétail, en quantité ne devant pas dépasser 0,1 pour cent dans les aliments d'allaitement pour veaux et 0,25 pour cent dans les suppléments liquides pour ruminants.»

8.68

Adipic acid (IFN 8-18-664)
is hexanedioic acid.

8.69

Amaranth dye (or F.D. & C. Red No. 2 dye) (IFN 8-18-665)
is the trisodium salt of 1-(4-sulfo-1-naphthylazo)-2-naphthol-3,6-disulfonic acid and is a colouring agent.

8.70

Ammonium chloride (IFN 8-08-814)
is the ammonium salt of hydrochloric acid.

8.71

Ammonium hydroxide (IFN 6-26-402)
is an aqueous ammonia solution containing between 15 to 30 per cent (weight by weight) of ammonia. It shall be labelled with one or both of the following statements:

"This product is for use in an amount not to exceed 0.1 per cent of the total diet"; or
 «Ce produit est à utiliser en quantité ne devant pas excéder 0.1 pour cent de la ration totale.»

8.72

Brilliant Blue FCF dye (or F.D. & C. Blue No. 1 dye) (IFN 8-30-386)
is the disodium salt of N-ethyl-N-(4-(4-ethyl((3-sulfophenyl)methyl, amino)phenyl)methylene)-2,5-cyclohexadien-1-ylidene)-3-sulfobenzene-methanaminium hydroxide inner salt and is a colouring agent.

8.73

Calcium L-ascorbate (or Calcium ascorbate) (IFN 8-26-246)
is the calcium salt of ascorbic acid.

8.74

Calcium formate (IFN 8-30-388)
is the calcium salt of formic acid. It shall be labelled with a guarantee for minimum calcium and minimum calcium formate.

8.75

Calcium lactate (IFN 8-30-387)
is the calcium salt of lactic acid.

8.76

Caramel (or Caramel colour) (IFN 8-18-933)
is the burnt sugar colouring made by heating sugar or glucose, adding small quantities of alkaline carbonate or a trace of mineral acid during the heating.

8.77

Erythorbic acid (or Isoascorbic acid) (IFN 8-09-823)
is Derythro-hex-2-enoic acid.

8.78

Erythrosine dye (or F.D. & C. Red No. 3 dye) (IFN 8-18-978)
is 3'6'-dihydroxy-2,4,5,7-tetraiodospiro (isobenzofuran(1(3H),9'-(9H)xanthan)-3-one disodium salt and is a colouring agent.

8.79

Ethanol (or Ethyl alcohol CH₃CH₂OH or Anhydrous alcohol)(IFN - -)
is ethanol.

8.80

Ethyl cellulose (or Cellulose ethyl ether) (IFN 4-08-045)

is prepared from wood pulp or chemical cotton by treatment with alkali and ethylation of the alkali cellulose with ethyl chloride. It shall be labelled with one or both of the following statements:

"This product is for use in feeds as a pelleting aid. Consult the Compendium of Medicating Ingredient Brochures for acceptable drug compatibilities with this product"; or
«Ce produit est utilisé comme agent de pelletisation dans les aliments du bétail. Consulter le Recueil des Notices sur les compatibilités de médicaments acceptables avec ce produit.»

8.81Fast Green FCF dye (or F.D. & C. Green No. 3 dye) (IFN 8-18-979)

is the disodium salt of N-ethyl-N(4-((4-ethyl ((3-sulfophenyl)methyl)amino)phenyl) (4-hydroxy-2-sulfophenyl) -methylene)-2,5-cyclohexadien-1-ylidene)-3-sulfobenzenemethanamin hydroxide inner salt and is a colouring agent.

8.82Formaldehyde solution (or Formalin) (IFN 8-26-243)

is produced by dissolving about 37 per cent by weight of formaldehyde gas in water usually with 10 to 15 per cent methanol added to prevent polymerization. It shall be labelled with one or both of the following statements:

"This product is for use in feeds in an amount not to exceed 0.25 per cent of the total diet"; or
«Ce produit doit être utilisé dans les aliments du bétail, en quantité ne dépassant pas 0,25 pour cent de l'aliment fini.»

8.83Fumaric acid (IFN 8-18-666)

is trans-butenedioic acid.

8.84Graphite (or Calcined petroleum coke) (IFN 6-26-410)

is crystallized carbon of uniform particle size with traces of iron, silicon dioxide, etc. and is a carrier. It shall be labelled with a guarantee for minimum per cent carbon.

8.85Gum arabic (or Gum acacia) (IFN 8-18-675)

is the dried gummy exudate of the stems and branches derived from the plant source Acacia senegal (L) Willd.

8.86Indigo Carmine lake (or F.D. & C. Blue No. 2 lake, or Indigotine lake) (IFN 8-30-436)

is a colouring agent. It shall be labelled with a guarantee for minimum primary dye content.

8.87Kaolin (IFN 8-08-040)

is hydrated aluminum silicate. It shall be labelled with one or both of the following statements:

"This product is for use as an anti-caking agent in an amount not to exceed 2.5 per cent of the finished feed"; or
«Ce produit est utilisé comme agent antiagglutinant en quantité ne devant pas dépasser 2,5 pour cent de l'aliment fini.»

8.88Locust bean gum (or Carob bean gum) (IFN 8-07-250)

is the dried gummy exudate obtained by grinding the endosperms derived from the tree pods of the plant source Ceratonia siliqua L., Leguminosae (St. John's Bread).

8.89Montmorillonite clay (or Montmorillonite) (IFN 8-09-364)

is a clay forming the principal constituent of bentonite. Approximate formula: $R^{+}_{0.33}(Al,Mg)_2Si_4O_{10}(OH)_2NH_2O$ where R⁺, in natural materials, includes one or more of the cations Na⁺, K⁺, Mg²⁺, and Ca²⁺, and possibly others. It shall be labelled with one or both of the following statements:

"This product is for use in non-medicated feeds only as an anticaking agent or pelleting aid in an amount not to exceed 2 per cent of the total diet"; or
«Ce produit est utilisé dans les aliments non-médicaments comme agent antiagglutinant au de palletisation en quantité ne devant pas dépasser 2,0 pour cent de l'aliment fini.»

8.90Octadecanoic acid (or Stearic acid) (IFN 8-18-676)

is a glyceride occurring in animal fats and oils and vegetable oils.

8.91Octadec-9-enoic acid (or Oleic acid) (IFN 8-18-677)

is $CH_3(CH_2)_4CH=CH(CH_2)_7COOH$.

8.92Polyoxyethylene glycol 400 mono-and di-oleates (IFN 8-08-053)

is the product resulting from condensation of ethylene glycol and ethylene oxide.

8.93Potassium sodium copper chlorophyllin (IFN 8-32-163)

is the copper derivative of the potassium sodium salt of chlorophyll and is a colouring agent. It shall be labelled with a guarantee for minimum primary dye content.

8.94

Propylene glycol mono-and di-esters of fats and fattyacids (IFN 8-18-678)
is a mixture of 1,2-propanediol mono-and diesters of fats or fatty acids or both.

8.95

Resin guaiac or (Guaiac gum) (IFN 8-03-909)

is the resin obtained from the wood of Guajacum officinale L. or Guajacum sanctum Zygophyl. It shall be labelled with one or both of the following statements:

"This product is for use as an antioxidant at a level not to exceed 0.1 per cent (equivalent antioxidant activity 0.01 per cent) of the fat or oil content of the feed"; or

«Ce produit est utilisé comme antioxydant, la quantité totale d'antioxydant (l'équivalent activité en antioxydant 0.01 pour cent) ne doit pas dépasser 0.1 pour cent de contenu total en gras ou en hile de l'aliment du bétail.»

8.96

Seaweed extract liquid (IFN 8-30-459) i

s the stabilized product resulting from extracting the solid material from the solubilization, conducted in accordance with good manufacturing practices, of non-toxic macroscopic marine algae (marine plant) of the families Gelidiaceae, Gigartinales, Gracilariaceae, Solieriaceae, Palmariaceae, Bangiaceae, laminariaceae, Alariaceae, Fucaceae, Sargassaceae, Monostromataceae and Ulvaceae. The family or families must be listed after the name. It shall be labelled with guarantees for maximum moisture, maximum salt, maximum crude fibre, maximum iodine, maximum sulphate and minimum potassium.

8.97

Sepiolite (IFN - -)

is a natural mineral clay with the general formulation $Si_{12}Mg_8O_{30}(OH)_4O_8H_2O$.

8.98

Sodium alginate (or Algin, or Alginic acid sodium salt, or Sodium polymannuronate) (IFN 8-20-961)

is a gelling polysaccharide from giant brown seaweed (giant kelp, Macrocystis pyrifera (L.)) or from horsetail kelp (Laminaria diajata (L.)) or from sugar kelp (Laminaria saccharina (L.)) and is a stabilizer.

8.99

Sodium calcium aluminosilicate hydrated (or Hydrated sodium calcium aluminosilicate) (IFN 8-32-165)

is $NaCaO.Al_2O_3.2SiO_2.H_2O$. It shall be labelled with one or both of the following statements:

"This product is for use in non-medicated feeds as an anticaking agent in an amount not to exceed 2 per cent of the total diet"; or

«Ce produit est utilisé dans les aliments non-medicament comme agent antiagglutinant en quantité ne devant pas dépasser 2,0 pour cent de l'aliment fini.»

8.100

Sodium copper chlorophyllin (IFN 8-32-164)

is the copper derivative of the sodium salt of chlorophyll and is a colouring agent. It shall be labelled with a guarantee for minimum primary dye content.

8.101

Sodium salts of fatty acids

is obtained by saponification of animal fat, or vegetable oil followed by removal of glycerol and neutralization of the remaining fatty acids with sodium hydroxide to form salts of the fatty acids (soap), and is used as an anti-caking agent and emulsifier. The source of the free fatty acids shall be indicated on the label. If an antioxidant is used, the common name or names shall also be indicated on the label. It shall be labelled with guarantees for maximum moisture, maximum unsaponifiable matter, maximum free fatty acids, and minimum total fatty acid salts".

8.102

Sodium sulfite anhydrous (or Sodium sulfite) (IFN 8-26-307)

is the anhydrous sodium salt of sulfur trioxide. It shall be labelled with a guarantee for minimum sodium sulfite.

8.103

Sphagnum peat moss (IFN 8-18-980)

is the tan to light brown partially decomposed fibrous plant material derived mainly from the genus Sphagnum that has been dried and ground. It shall be labelled with guarantees for maximum moisture and maximum crude fibre.

8.104

Stainless steel grits (IFN 8-30-444)

are small particles (between 35 and 100 mesh) principally composed of iron with chromium, manganese, silicon and carbon and are used as a carrier for colouring agents. It shall not contain more than 20 per cent chromium. It shall be labelled with one or both of the following statements:

"This product is for use in microtracers in an amount not to exceed 10 grams per tonne of complete feeds"; or «Ce produit est utilisé dans les micro traceurs en quantité ne devant pas dépasser 10 grammes par tonne d'aliment.»

8.105

Sterculia gum (or Karaya gum) (IFN 8-18-680)

is the processed sap derived from the plant source Sterculia urens.

8.106

Sunset Yellow FCF dye (or F.D. & C. Yellow No. 6 dye) (IFN - -)
is 6-hydroxy-5-((4-sulfophenyl)azol)-2-naphthalenesulfonic acid disodium salt and is a colouring agent.

8.107

Sunset Yellow FCF lake (or F.D. & C. Yellow No. 6 lake) (IFN - -)
is the trisodium salt of 6-hydroxy-5-((4-sulfophenyl)azol)-2-naphthalenesulfonic acid disodium salt and is a colouring agent. It shall be labelled with a guarantee for minimum primary dye content.

8.108

Marigold oil extract (or Tagetes erecta L. oil extract) (IFN 8-30-488)
is the hexane extract of the flower petals of Tagetes erecta L. and is used as a colouring agent in livestock feeds. The product shall not contain more than 0.3 per cent ethoxyquin.

8.109

Talc (IFN 8-16-378)
is a naturally occurring mineral consisting primarily of magnesium silicate hydrated and is an anticaking agent. It shall be labelled with one or both of the following statements:

"This product is for use as an anticaking agent in an amount not to exceed 2.0 per cent of the finished feed"; or
«Ce produit est utilisé en quantité ne devant pas dépasser 2,0 pour cent de l'aliment fini.»

8.110

Tartrazine dye (or F.D. & C. Yellow No. 5 dye) (IFN 8-30-392)
is the trisodium salt of (4,5-dihydro-5-oxo-1-(4-sulfophenyl)-4-((4-sulfophenyl) azo)-1H-pyrazole-3-carboxylic acid and is a colouring agent.

8.111

Thaumatococcus (IFN 8-18-682)
is the proteins, thaumatin I and thaumatin II, extracted from the arils of the fruit derived from the plant source Thaumatococcus denielli. It shall be labelled with one or both of the following statements:

"This product is for use as a nonnutritive flavour enhancer in feeds in an amount not to exceed .0001 per cent (1 mg/kg) of the total diet"; or
«Ce produit est un agent non-nutritif d'amélioration de la sapidité des aliment et ne doit pas être utilisé à plus d'un pourcentage de 0,0001 de l'aliment complet.»

8.112

Ultramarine blue (IFN - -)
is obtained by calcining a mixture of Kaolin, sulfur, sodium carbonate and carbon at temperatures above 700°C to form a complex sodium aluminum sulfosilicate ($\text{Na}_7\text{Al}_6\text{Si}_6\text{O}_{23}\text{S}_3$). It shall be labelled with one or both of the following statements:
"Ultramarine blue is for use as a colouring agent in salt blocks in an amount not to exceed 0.5 per cent by weight of the salt"; or
«Le bleu d'outremer doit être utilisé comme agent colorant dans les blocs de sel en quantité ne dépasser pas 0,5 pour cent du poids du sel.»

8.113

Vermiculite(Granules) (or Verxite (granules)) (IFN 8-18-981)
is a magnesium-iron-aluminum silicate containing a minimum of 98 per cent hydrobiotite. It shall be labelled with one or both of the following statements:

"This product is for use in an amount not to exceed 5.0 per cent of the finished feed"; or
«Ce produit est utilisé en quantité ne devant pas dépasser 5,0 pour cent de l'aliment fini.»

8.114

Wood charcoal (IFN 8-30-460)
is the ground, black, amorphous carbon solid obtained by processing of the wood and is a colouring agent.

8.115

Aluminum hydroxide, (AlH₃O₃) (or Hydrated alumina, or Aluminum hydrate) (IFN - -)
is the hydrated oxide salt of aluminum. It shall be labelled with a guarantee for minimum aluminum hydroxide.

8.116

Annatto seeds, extract (or Annatto extract or Bixa orellana seed extract) (IFN - -)
is the extract of the annatto seed, Bixa orellana which contains bixin and several yellow to orange-red pigments which give carotene reactions, and is a colouring agent.

8.117

Citric ester of mono and di- glycerides (IFN 8 - -)
consists of mixture of Mono and Di- glycerides in a citric ester matrix.

8.118

Attapulgit clay (IFN 8-14-008)
is hydrated aluminum - magnesium silicate, a naturally occurring mineral mined in Attapulgit, Georgia. The chemical formula is $(\text{Mg, Al})_5\text{Si}_8\text{O}_{22}(\text{OH})_4 \cdot 4\text{H}_2\text{O}$. It shall be labelled with the following statement:

"This product is for use in non-medicated feeds only as an anticaking agent or pelleting aid in an amount not to

exceed 0.25% of the finished feed or as an emulsifier in liquid feed supplements at a level not to exceed 2.5% of the supplement."

«Ce produit est ajouté aux aliments du bétail non médicamenteux seulement comme anti-agglomérant ou comme agent de pelliculation, en quantité ne dépassant pas 0,25 % de l'aliment fini, ou comme émulsifiant dans les suppléments liquides d'aliments du bétail, dans une proportion maximale de 2,5% du supplément.»

8.119

D-Mannitol (or Mannitol,D-) (IFN - - -)

is the product of a reduction process by either H₂ gas in the presence of metal catalysts (platinum) or sodium amalgam in water with mannose.

8.120

Sorbitan monostearate (IFN - - -)

is a mixture of stearic and palmitic acid esters of sorbitol and their mono- and di-anhydrides.

8.121

Gelatin (IFN - - -)

is the product obtained by partial hydrolysis of collagen derived from animal skin, white connective tissue and bones.

8.122

Triethyl citrate (or Triethyl citrate (ethyl citrate)) (IFN - - -)

is an emulsifier

8.123

Allura Red dye (or Red Dye #40, FD&C #40) (IFN - - -)

is 6-hydroxy-5-[(2-methoxy-5-methyl-4-sulfophenyl) azo]-2-naphthalene sulfonic acid disodium salt and is used as a coloring agent.

8.124

Malic acid (or Hydroxysuccinic acid or Hydroxybutanedioic acid) (IFN - - -)

is C₄H₆O₅.

8.125

Distilled acetylated monoglycerides (IFN - - -)

is the product obtained through molecular distillation of the reaction mixture of soybean oil and triacetin. If an antioxidant(s) is used, the common name(s) shall be indicated on the label.

8.126

Sodium erythorbate (or sodium isoascorbate) (IFN - - -)

is an antioxidant having the chemical formula C₆H₇O₆Na•H₂O

8.127

Glyceryl monostearate (IFN -- --)

is Octadecanoic acid mono-ester with 1, 2, 3-propanetriol

8.128

Polydimethylsiloxane (or Dimethylpolysiloxane)

is the linear and cyclic polymer described by CAS #63148-62-9. It shall be labelled with one or both of the following statements:

"This product is an ingredient in antifoaming agents used in the blood plasma separation and the rendering process. It shall not result in residues in complete feed of greater than 10 ppm. It shall be used in inedible rendering establishments only." or "Ce produit est destiné à être utilisé dans les usines d'équarrisages non comestible seulement, comme un ingrédient dans des agents non ecumant pour le process de séparation du plasma de sanguin et d'équarrissage. Ce produit ne doit pas dépasser 10 ppm de l'aliment complet."

8.129

Polyoxyethylene stearate (or Polyethylene glycol stearate)

is formed with a mixture of mono- and di-esters of stearic acid, and polyoxyethylene diols. The polymer is described by CAS #9004-99-3. . It shall be labelled with one or both of the following statements:

"This product is an ingredient in antifoaming agents used in the blood plasma separation and the rendering process. It shall not result in residues in complete feed of greater than 1.0 ppm. It shall be used in inedible rendering establishments only." or "Ce produit est destiné à être utilisé dans les usines d'équarrisages non comestible seulement, comme un ingrédient dans des agents non ecumant pour le process de séparation du plasma de sanguin et d'équarrissage. Ce produit ne doit pas dépasser 1.0 ppm de l'aliment complet."

8.130

Calcium gluconate (IFN 6-01-073)

is the calcium salt of gluconic acid and its hydrated forms.

8.131

Grit (or Granite or Crushed stone or Cut stone) (IFN -- -- --)

is course ground, non-nutritive, insoluble material (eg. granite rock) for the in vivo grinding of feed by avian species.

8.132**Iron grits (or Cast steel grits)** (IFN -- -- --)

are small particles (between 35 and 100 mesh) principally composed of iron with carbon, manganese and silicon and are used as a carrier in microtracers for feed. It shall be labelled with one or both of the following statements:

"This product is for use in microtracers in an amount not to exceed 10 grams per tonne of complete feed."; or «Ce produit est utilisé dans les microtraceurs en quantité ne devant pas dépasser 10 grammes par tonne d'aliments complets.»

8.133**Mixed Tocopherols** (IFN -- -- --)

is the mixture of alpha, beta, delta and gamma tocopherols to be used in accordance with good manufacturing practices.

8.134**2-Hydroxy-1,2,3-propanetricarboxylic acid calcium salt (or calcium citrate, or tricalcium citrate)** (IFN -- --)

is the calcium salt of citric acid. It shall be labelled with minimum percent calcium citrate.

8.135**Irish moss (or *Chondrus crispus*)** (IFN --)

is a red seaweed of the family Gigartinae (class Rhodophyceae, order Gigartinales). This product is for use only as a component of a flocculating agent to be used in the recovery of soluble fat and protein from waste water of slaughterhouse and meat processing facilities. The recovered product will be further mixed uncooked into meat and bone meal, and rendered. This ingredient shall not contain undegraded forms of carrageenan.

8.136**Hexadecanoic acid (or Palmitic acid)** (IFN --)

is $C_{16}H_{32}O_2$ and is a glyceryl ester occurring in many fats and oils.

8.137**Pelleted Whole Seaweed (or Dehydrated Seaweed Pellets)** (IFN --)

is the product resulting from drying, grinding and pelleting non-toxic macroscopic marine algae (marine plants) of the families *Gelidiaceae*, *Gigartinae*, *Gracilariaceae*, *Solieriaceae*, *Palmariaceae*, *Bangiaceae*, *Laminariaceae*, *Lessoniaceae*, *Alariaceae*, *Fucaceae*, *Sargassaceae*, *Monostromataceae* and *Ulvaeae*. The family or families must be listed after the name Pelleted Whole Seaweed. It shall be labelled with guarantees for maximum percent salt (NaCl), maximum percent crude fibre, maximum percent iodine, maximum percent sulfate and minimum percent potassium.

8.138**AGAR**

is the polysaccharide obtained from the algae of the genus *Gracilaria*. The algae is cut, boiled, filtered, and the filtrate is mixed with an ethanol/water mixture to precipitate the agar, which is then dried. It shall be labelled with a guarantee for minimum percent of agar. It shall also be labelled with one or both of the following statements: "This ingredient is to be used as an encapsulating agent, or, "Ce produit est destiné à être utilisé comme agent d'encapsulation."

8.139**Dehydrated Seaweed Extract (or Seaweed Extract Powder)**

is the product resulting from drying the extract of the stable, solid material obtained from the solubilization of non-toxic macroscopic marine algae (marine plant) of the families *Gelidiaceae*, *Gigartinae*, *Gracilariaceae*, *Solieriaceae*, *Palmariaceae*, *Bangiaceae*, *Laminariaceae*, *Alariaceae*, *Fucaceae*, *Sargassaceae*, *Monostromataceae* and *Ulvaeae* conducted in accordance with good manufacturing practices. The family or families must be listed after the name. It shall be labelled with guarantees for maximum moisture, maximum salt, maximum crude fibre, maximum iodine, maximum sulphate and minimum potassium.

8.140**Wax-Free Bleached Shellac (or Refined Bleached Shellac)**

Shellac is obtained from lac, the resinous secretion of the insect *Laccifer (Tachardia) lacca* Kerr (Fam. *Coccidae*), dissolved, bleached, filtered for wax and dried. Wax-free bleached shellac is dissolved in an approved alcohol as per Schedule IV of the *Feeds Regulations*. It shall be labelled with one or both of the following statements:

"This product is for use as a protective coating on micro-tracers in feed in an amount not to exceed 0.01% (100 ppm) in the complete diet."; or «Ce produit est destiné à être utilisé comme un enrobage sur les micro- traceurs dans les aliments du bétail, en quantité ne devant pas dépasser 0,01 pour cent (100 ppm) de la ration totale.»

8.143**Sedge Peat Moss, (Peat Moss, Sedge)**

is the partially decomposed plant material derived mainly from the genus *Carex* that has been dried and ground. Since sedge grasses accumulate metals, sedge peat moss intended for feeding to animals should not be harvested from areas where the soil contains high concentrations of heavy metals and when used as directed it shall not contribute heavy metals in the total diet above the following levels: copper (25 mg/kg), zinc (300 mg/kg), lead (8 mg/kg), arsenic (8 mg/kg) and cadmium (**0.2 mg/kg**). It shall be labelled with guarantees for maximum moisture, minimum fibre, maximum copper, maximum zinc, maximum lead, maximum arsenic and maximum cadmium.

SCHEDULE IV

PART II

Class 1. Dry Forage and Roughage Products

No entries

Class 2. Pasture, Range Plants and Forages Fed Green

No entries

Class 3. Silages

No entries

Class 4. Energy Feeds

4.1

(Repealed; SOR/97-151)

4.2

Calcium salts of fatty acids (IFN - -)

are the calcium salts of the free fatty acids from animal fat or vegetable oil. The source of the free fatty acids shall be indicated on the label. If an antioxidant is used, the common name or names shall also be indicated on the label. It shall be labelled with guarantees for minimum fatty acids, maximum unsaturated fatty acids, maximum triglycerides, maximum free fatty acids and maximum moisture. It shall also be labelled with a statement indicating the equivalent minimum of the calcium salts of the fatty acids.

4.3

Tree (Tall) oil fatty acid (or Tall oil fatty acid) (IFN 4-16-352)

is the vacuum distilled fatty acid end product obtained after the concentration, separation and acidification of tall oil from the Kraft or sulfate process of making pulp from pine. It shall contain a minimum of 95 per cent total fatty acids, a maximum of 1 per cent rosin acids and a maximum of 2 per cent unsaponifiable matter. If an antioxidant is used, the common name or names shall be indicated on the label. It shall be labelled with guarantees for minimum per cent total fatty acids, maximum per cent unsaponifiable matter and maximum per cent rosin acids.

4.4

Rice Bran, stabilized (or Stabilized rice bran) (IFN --)

is rice bran which has been treated, soon after milling by heat treatment or other means, that will substantially reduce the lipase activity. The stabilization process used should be included as part of the product name. Free fatty acid content of the crude fat component shall not exceed 4 percent. It shall contain less than 13 percent crude fiber. It shall be labelled with a guarantee for maximum calcium when the calcium carbonate exceeds 3 percent (i.e. Ca exceeds 1.2%).

4.5

Food Waste, Heat-Treated, Dehydrated (IFN --)

consists of a mixture of food waste products that have been separated from non-edible packaging material, ground, and is further processed by heat treatment, and dehydration. The material may be obtained from food processing and food servicing establishments other than international ports of entry. It may contain grains, millfeed or oilseed meal as a carrier. The waste product shall be picked up daily or sufficiently often that no decomposition is evident. If an antioxidant(s) is used, the common name or names shall be indicated on the label. It shall be labelled for guarantees for minimum crude protein, minimum and maximum crude fat, minimum and maximum calcium, minimum and maximum phosphorus, maximum salt, maximum crude fibre, and maximum moisture and minimum antioxidant, if added.

4.6

Corn syrup process residue with filter (or Maize syrup process residue with filter, or Maize syrup refinery insolubles or Corn syrup refinery insolubles)

consists predominantly of diatomaceous earth and the fatty fraction of corn starch together with protein and residual carbohydrate obtained in the refining of corn syrup by vacuum filtration with diatomaceous earth. It shall be labelled with guarantees for minimum crude fat, maximum ash, and maximum moisture. It shall also be labelled with the following statement(s); "This product is for use in feeds in amounts calculated on a dry weight basis not to exceed 2% diatomaceous earth in the total diet" and/or « Ce produit doit être utilisé dans les aliments du bétail en quantités calculées d'après le poids sec afin de ne pas dépasser 2 % de terre diatomée dans le régime alimentaire total.»

4.7

Food waste, dry, mixed (or dry food waste)

consists of a mixture of dry food waste products of non-animal origin listed in Schedule IV of the Feeds Regulations, such as Bakery Waste, Cereal Food Fines, Sugar Food Byproducts, Peanut Skins and grains, millfeeds or oilseed meals. The waste product shall be picked up daily or sufficiently often that no decomposition is evident. It shall be labelled with guarantees for minimum crude protein, minimum crude

fat, maximum salt, maximum crude fiber, and maximum moisture.

Schedule IV Part II

August 30, 2005

Class 5. Protein Feeds

(Repealed; SOR/97-151) **5.1**

(Repealed; SOR/2000-184) **5.2**

5.3

Poultry feather meal fresh (or Fresh ground feathers) (IFN 5-03-) consists of the non-rendered, ground, clean, undecomposed feathers from slaughtered poultry, free of additives or accelerators. It shall be labelled with guarantees for minimum crude protein, minimum pepsin digestible protein (as determined by A.O.A.C. method 7.048, 13th edition) and maximum moisture.

5.4
Beet sugar, separator byproduct, condensed (or Condensed separator byproduct) (IFN 5-32-051) is obtained as a by-product of the recovery of sucrose from beet molasses by utilization of molecular exclusion chromatography. It shall be labelled with guarantees for minimum crude protein, maximum ash, and maximum moisture.

5.5
Infant Formula Product, Dry (or Dry Infant Formula Product) (IFN --) is the product obtained by separating outdated infant formula products from packaging materials. The infant formula shall be picked up sufficiently often so that no decomposition is evident and shall be free of artificial flavours, colours and harmful microorganisms. It shall be labelled with guarantees for maximum % moisture, minimum % crude protein, minimum % crude fat, maximum % crude fat, actual % calcium, actual % phosphorus, actual % sodium and actual mg/kg iron.

5.6
Porcine Solubles, Dried (or Dried Porcine Solubles) (IFN --) is the product obtained after the extraction of heparin for human use from enzymatically digested porcine mucosa and small intestines which have been heat treated, condensed and dried with or without carrier. It shall be labelled with guarantees for minimum % crude protein, minimum % crude fat, maximum % moisture, maximum % crude fibre and maximum % ash. The carrier shall also be listed on the label.

5.7
Acid chlorinated Canola Meal (or Chlorinated Canola Meal) (IFN --) is the product obtained by blending hydrochloric acid with canola meal (as defined in Schedule IV of the *Feeds Regulations*) in a sealed mixing chamber ventilated in compliance with provincial environmental regulations. This product is to be fed to dry cows for a period of up to 3 weeks pre-calving as a source of dietary anions for the purpose of modifying dietary cation/anion balance. It shall be labelled with guarantees for minimum crude protein, minimum crude fat, maximum crude fibre, minimum chlorine and actual cation/anion balance expressed as milliequivalents (mEq) per kilogram. It shall also be labelled with the following statements:
"Dry cows receiving this product require a minimum calcium intake of 120 grams/head/day." and "This product is corrosive and shall be handled with appropriate personal protective clothing and equipment as defined per provincial legislation." and/or "Les vaches tarées recevant ce produit ont besoin d'un apport minimal de calcium de 120 grammes/tête/jour." and "Ce produit étant corrosif, sa manutention nécessite un équipement approprié et le port de vêtements protecteurs répondant aux définitions données par la loi provinciale".

5.8
Acid Chlorinated Soybean Meal (or Chlorinated Soybean Meal) is the product obtained by blending hydrochloric acid with soybean meal (as defined in Schedule IV of the *Feeds Regulations*) in a sealed mixing chamber ventilated in compliance with environmental regulations. This product is to be fed to dry cows for a period of up to 3 weeks pre-calving as a source of dietary anions for the purpose of modifying dietary cation/anion balance. It shall be labelled with guarantees for minimum % crude protein, minimum % crude fat, maximum % crude fibre, minimum % chlorine and actual cation/anion balance expressed as milliequivalents (mEq) per kilogram. It shall also be labelled with the following label statements: "Dry cows receiving this product require a minimum calcium intake of 120 grams/head/day." and "This product is corrosive and shall be handled with appropriate personal protective clothing and equipment as required." and/or "Les vaches tarées recevant ce produit exigent un apport calcique minimal de 120 grammes/tête/jour." et "Ce produit est corrosif; l'utilisateur doit donc le manipuler en portant des vêtements de protection et en se servant d'équipement personnel de protection, selon le besoin."

5.9
Modified Soybean Meal (or Soybean Meal, Chemically and/or Physically Modified) is the product resulting from treating soybean meal (as defined in Schedule IV of the *Feeds Regulations*) by chemical and/or physical means for the purpose of increasing the rumen undegradable protein. It shall be labelled with guarantees for minimum % crude protein, minimum % crude fat, maximum % crude fibre, maximum % moisture and maximum protein dispersibility index (PDI) (as determined by A.O.C.S. Official Method Ba 10-65, 4th Edition). It shall also be labelled with a statement indicating the estimated minimum % undegradable intake protein expressed as a percent of the crude protein.

Class 6. Mineral Products

- 6.1**
(Repealed; SOR/97-151)
- 6.2**
Seleno yeast dehydrated (or Selenium enriched yeast) (IFN -- -- ---)
is the dried product composed of yeast produced from an unmodified strain of the botanical classification *Saccharomyces* and the media on which it is grown. Such media shall not be fortified with levels of minerals and vitamins above those required for the optimal growth of yeast cells with the exception of selenium. The media shall be stated on the label. It shall be labelled with one or both of the following statements:
"This product is not a source of viable *Saccharomyces* cells."; or
«Ce produit n'est pas une source de cellules de *Saccharomyces* vivantes.»
It shall also be labelled with a guarantee for actual mg/kg of total selenium.
- 6.3**
Animal Bone Charcoal, Spent (or Bone Charcoal, spent) (IFN 6-00-404)
is produced by the charring and combustion of beef bones to be used in the filtration of raw sugar liqueur in the sugar refining industry. It is subsequently subjected to a repeated washing, drying, and heating process when exhausted. It shall be labelled with guarantees for minimum calcium and minimum phosphorus.
- 6.4**
Basic Copper Chloride (or Tribasic copper chloride) (IFN -- -- --)
is the copper salt of hydrochloric acid and hydrated form of copper oxide having the formula $Cu_2(OH)_3Cl$, and its hydrated forms. It shall be labelled with a guarantee for minimum copper.
- 6.5**
Magnesium Aspartate Hydrochloride (IFN --)
is the stabilized, hydrated complex formed after the reaction of magnesium and aspartic acid, and has the empirical formula of $(C_4H_6ClNO_4)Mg \cdot 3H_2O$. It shall be labelled with a guarantee for a minimum percent magnesium.
- 6.6**
Calcium amino acid chelate (IFN 6-20-981)
is the product resulting from the chelation of a soluble calcium salt with amino acids. It shall be labelled with guarantees for minimum per cent of calcium and minimum percent of bound calcium.
- 6.7**
Cobalt amino acid chelate (IFN 6-20-982)
is the product resulting from the chelation of a soluble cobalt salt with amino acids. It shall be labelled with guarantees for minimum per cent of cobalt and minimum percent of bound cobalt.
- 6.8**
Copper amino acid chelate (IFN 6-20-983)
is the product resulting from the chelation of a soluble copper salt with amino acids. It shall be labelled with guarantees for minimum per cent of copper and minimum percent of bound copper.
- 6.9**
Iron amino acid chelate (IFN 6-20-984)
is the product resulting from the chelation of a soluble iron salt with amino acids. It shall be labelled with guarantees for minimum per cent of iron and minimum percent of bound iron.
- 6.10**
Magnesium amino acid chelate (IFN 6-20-985)
is the product resulting from the chelation of a soluble magnesium salt with amino acids. It shall be labelled with guarantees for minimum per cent of magnesium and minimum percent of bound magnesium.
- 6.11**
Manganese amino acid chelate (IFN 6-20-986)
is the product resulting from the chelation of a soluble manganese salt with amino acids. It shall be labelled with guarantees for minimum per cent of manganese and minimum percent of bound manganese.
- 6.12**
Zinc amino acid chelate (IFN 6-20-987)
is the product resulting from the chelation of a soluble zinc salt with amino acids. It shall be labelled with guarantees for minimum per cent of zinc and minimum percent of bound zinc.
- 6.13**
Cobalt choline citrate complex (or Cobalt choline citrate) (IFN 6-20-869)
is the product resulting from the complexing of the soluble cobalt salt with choline dihydrogen citrate. It shall be labelled with guarantees for minimum percent of cobalt and minimum percent of bound cobalt.
- 6.14**
Cobalt polysaccharide complex (IFN 6-19-652)
is the product resulting from coating a soluble cobalt salt with polysaccharides. It shall be labelled with guarantees for minimum percent of cobalt and minimum percent of bound cobalt. It shall also be labelled with the name of the material from which the polysaccharides are derived.

6.15

Copper choline citrate complex (or Copper choline citrate) (IFN 6-20-868) is the product resulting from the complexing of the soluble copper salt with choline dihydrogen citrate. It shall be labelled with guarantees for minimum percent of copper and minimum percent of bound copper.

6.16

Copper polysaccharide complex (IFN 6-09-822) is the product resulting from coating a soluble copper salt with polysaccharides. It shall be labelled with guarantees for minimum percent of copper and minimum percent of bound copper. It shall also be labelled with the name of the material from which the polysaccharides are derived.

6.17

Ferric choline citrate complex (or Ferric choline citrate) (IFN 6-20-867) is the product resulting from the complexing of the soluble iron salt with choline dihydrogen citrate. It shall be labelled with guarantees for minimum percent of iron and minimum percent of bound iron.

6.18

Iron polysaccharide complex (IFN 6-09-898) is the product resulting from coating a soluble iron salt with polysaccharides. It shall be labelled with guarantees for minimum percent of iron and minimum percent of bound iron. It shall also be labelled with the name of the material from which the polysaccharides are derived.

6.19

Copper lysine complex (or Copper lysine sulfate)(IFN -- -) is the product resulting from complexing a soluble copper salt (ie. copper sulfate) with the specific amino acid lysine. It shall be labelled with guarantees for minimum percent of copper and minimum percent of bound copper.

6.20

Zinc lysine complex (or Zinc lysine sulfate) (IFN 6 -) is the product resulting from complexing a soluble zinc salt (ie. zinc sulfate) with the specific amino acid lysine. It shall be labelled with guarantees for minimum percent of zinc and minimum percent of bound zinc.

6.21

Magnesium amino acid complex (IFN 6-32-055) is the product resulting from the complexing of magnesium with an amino acid. It shall be labelled with guarantees for minimum percent of magnesium and minimum percent of bound magnesium.

6.22

Magnesium polysaccharide complex (IFN 6-19-653) is the product resulting from coating a soluble magnesium salt with polysaccharides. It shall be labelled with guarantees for minimum percent of magnesium and minimum percent of bound magnesium. It shall also be labelled with the name of the material from which the polysaccharides are derived.

6.23

Manganese choline citrate complex (or Manganese choline citrate) (IFN 6-32-191) is the product resulting from the complexing of a soluble manganese salt with choline dihydrogen citrate. It shall be labelled with guarantees for minimum percent of manganese and minimum percent of bound manganese..

6.24

Manganese polysaccharide complex (IFN 6-19-654) is the product resulting from coating a soluble manganese salt with polysaccharides. It shall be labelled with guarantees for minimum percent of manganese and minimum percent of bound manganese. It shall also be labelled with the name of the material from which the polysaccharides are derived.

6.25

Iron methionine complex (or Iron methionine sulphate) (IFN 6-16-294) is the product resulting from complexing a soluble iron salt (ie. iron sulphate) with the specific amino acid methionine. It shall be labelled with guarantees for minimum percent of iron and minimum percent of bound iron.

6.26

Manganese methionine complex (or Manganese methionine sulfate) (IFN - - -) is the product resulting from complexing soluble manganese salt (ie. manganese sulfate) with the specific amino acid, methionine. It shall be labelled with guarantees for minimum percent of manganese and minimum percent of bound manganese.

6.27

Potassium amino acid complex (IFN 6-32-161) is the product resulting from complexing of a soluble potassium salt with an amino acid. It shall be labelled with guarantees for minimum percent of potassium and minimum percent of bound potassium.

6.28

Zinc methionine complex (or Zinc methionine sulfate) (IFN 6-16-293) is the product resulting from complexing a soluble zinc salt (ie. zinc sulfate) with the specific amino acid methionine. It shall be labelled with guarantees for minimum percent of zinc and minimum percent of bound zinc.

6.29

Zinc choline citrate complex (or Zinc choline citrate)(IFN 6-32-192) is the product resulting from the complexing of the soluble zinc salt with choline dihydrogen citrate. It shall be labelled with guarantees for minimum per cent of zinc and minimum percent of bound zinc.

6.30

Zinc polysaccharide complex (IFN 6-09-899) is the product resulting from coating a soluble zinc salt with polysaccharides. It shall be labelled with guarantees for minimum percent of zinc and minimum percent of bound zinc. It shall also be labelled with the name of the material from which the polysaccharides are derived.

6.31

Calcium proteinate (IFN 6-16-833) is the product resulting from the chelation of a soluble calcium salt with amino acids, partially hydrolyzed protein or both. It shall be labelled with guarantees for minimum percent of calcium and minimum percent of bound calcium.

6.32

Cobalt proteinate (IFN 6-26-151) is the product resulting from the chelation of a soluble cobalt salt with amino acids, partially hydrolyzed protein or both. It shall be labelled with guarantees for minimum percent of cobalt and minimum percent of bound cobalt.

6.33

Copper proteinate (IFN 6-09-896) is the product resulting from the chelation of a soluble copper salt with amino acids, partially hydrolyzed protein or both. It shall be labelled with guarantees for minimum percent of copper and minimum percent of bound copper.

6.34

Iron proteinate (IFN 6-26-150) is the product resulting from the chelation of a soluble iron salt with amino acids, partially hydrolyzed protein or both. It shall be labelled with guarantees for minimum percent of iron and minimum percent of bound iron.

6.35

Magnesium proteinate (IFN 6-26-149) is the product resulting from the chelation of a soluble magnesium salt with amino acids, partially hydrolyzed protein or both. It shall be labelled with guarantees for minimum percent of magnesium and minimum percent of bound magnesium.

6.36

Manganese proteinate (IFN 6-16-831) is the product resulting from the chelation of a soluble manganese salt with amino acids, partially hydrolyzed protein or both. It shall be labelled with guarantees for minimum percent of manganese and minimum percent of bound manganese.

6.37

Zinc proteinate (IFN 6-09-897) is the product resulting from the chelation of a soluble zinc salt with amino acids, partially hydrolyzed protein or both. It shall be labelled with guarantees for minimum percent of zinc and minimum percent of bound zinc.

6.38

Chromium Yeast Dehydrated (or Chromium Enriched Yeast) is the dried product composed of chromium enriched yeast produced from a strain of the botanical classification *Saccharomyces*. The carrier(s) shall be stated on the label. It shall be labelled with one or both of the following set of statements: "This product is for use only in feeds for first lactation dairy cattle at a level not to supply more than 0.4 ppm chromium in complete feed. It is not a source of viable *Saccharomyces* cells"; or "Ce produit ne peut être utilisé que dans les aliments de bovins laitiers durant leur première lactation à un niveau ne dépassant pas 0.4 ppm de chrome dans l'aliment complet. Celui-ci n'est pas une source de cellules de *Saccharomyces* vivantes". It shall also be labelled with a guarantee for actual mg/kg of total chromium.

6.39

Selenium proteinate is the product resulting from the chelation of a soluble selenium salt with amino acids, partially hydrolyzed protein or both. It shall be labelled with guarantees for minimum selenium and minimum percent bound selenium.

6.40

Copper amino acid complex is the product resulting from the complexing of copper with amino acids. It shall be labelled with guarantees for minimum per cent copper and minimum percent bound copper.

6.41

Manganese amino acid complex is the product resulting from the complexing of manganese with amino acids. It shall be labelled with guarantees for minimum per cent manganese and minimum percent bound manganese.

6.42

Zinc amino acid complex

is the product resulting from the complexing of zinc with amino acids. It shall be labelled with guarantees for minimum per cent zinc and minimum percent bound zinc.

6.43

Zinc Glycine complex (Zinc Glycine sulfate)

is the product resulting from complexing a soluble zinc salt (ie. zinc sulfate) with the specific amino acid glycine. It shall be labelled with guarantees for minimum percent of zinc and minimum percent of bound zinc.

6.44

Iron Glycine complex (Iron Glycine sulfate)

is the product resulting from complexing a soluble Iron salt (ie. Iron sulfate) with the specific amino acid glycine. It shall be labelled with guarantees for minimum percent of iron and minimum percent of bound iron.

Class 7. Vitamin Products and Yeast Products

- 7.1**
- (Repealed; SOR/97-151)
- 7.2**
- Beta-carotene (IFN 7-01-134)
is beta-carotene formulated in an organic matrix. It is a vitamin A precursor for all species except mink. It shall be labelled with a guarantee for minimum milligrams of beta-carotene per kilogram.
- 7.4**
- Vitamin D₃ (IFN 7-05-699)
is cholecalciferol formulated in an organic matrix. It shall be labelled with a guarantee for minimum international units of vitamin D₃ per kilogram.
- 7.5**
- Vitamin E (IFN 7-05-150)
is an acetate ester, a succinate ester or a mixture of these esters of dl-alpha tocopherol adsorbed on a carrier or formulated in an organic matrix. It shall be labelled with a guarantee for minimum international units of vitamin E per kilogram.
- 7.6**
- Animal Sterol irradiated (or D-activated animal sterol) (IFN 7-00-408)
is obtained by activation of a sterol fraction of animal origin with ultra-violet light or by other means. For label identification it may be followed with the parenthetical phrase (Source of Vitamin D₃).
- 7.7**
- Coated Ascorbic acid (IFN -- -- --)
is ascorbic acid formulated in an organic matrix. It shall be labelled with a guarantee for minimum milligrams ascorbic acid per kilogram.
- 7.8**
- Coated Menadione Sodium Bisulphite(IFN 7-03-077)
is menadione sodium bisulfite formulated in an organic matrix. It shall be labelled with a guarantee for minimum milligrams menadione per kilogram.
- 7.9**
- Vitamin E Acetate (or Vitamin E Oil) (IFN -- --)
is the acetate ester of dl-alpha tocopherol. It shall be labelled with a guarantee for minimum International Units (IU) of Vitamin E per kilogram
- 7.10**
- 25-Hydroxyvitamin D₃ (or Calciferol, 25-Hydroxy vitamin D₃, 25-OH-D₃, 25-Hydroxycholecalciferol, 25-OH-vitamin D₃)
is the synthetic analogue and precursor of 1- α , 25-dihydroxycholecalciferol, the hormonal form of vitamin D₃ (1 mg of 25-hydroxyvitamin D₃ = 40,000 IU of Vitamin D₃ activity) formulated in an organic matrix, for use in chicken and turkey feeds only. It shall be labelled with a guarantee for minimum milligrams of 25-Hydroxyvitamin D₃ per kilogram. It shall also be labelled with a statement indicating the equivalent minimum International Units of Vitamin D₃ activity per kilogram.

Class 8. Miscellaneous Products**8.1**

(Repealed; SOR/97-151)

8.2Beta-apo-8'-carotenoic acid ethyl ester (or Ethyl-betaapo-8' carotenoid) (IFN 8-16-287)

is a naturally occurring carotenoid formulated in an organic matrix. It shall be labelled with one or both of the following statements:

"This product is for use as a colouring agent in fish and poultry feeds at a rate not to exceed 30 grams/tonne of the finished feed"; or«Ce produit est destiné à être utilisé comme agent de coloration dans des aliments de la volaille et du poisson, en quantité ne devant pas dépasser 30 grammes/tonne de l'aliment fini.»

It shall also be labelled with a guarantee for minimum milligrams of beta-apo-8'-carotenoic acid ethyl ester per kilogram.

8.3Canthaxanthin (IFN 8-16-286)

is a naturally occurring carotenoid formulated in an organic matrix. It shall be labelled with one or both of the following statements:

"Canthaxanthin is for use as a colouring agent in poultry and fish feeds at a rate not to exceed 30 grams/tonne of the complete feed"; or«Canthaxanthin est destiné à être utilisé comme agent de coloration dans des aliments de la volaille et du poisson, en quantité ne devant pas dépasser 30 grammes/tonne de l'aliment complet.»

It shall also be labelled with a guarantee for minimum milligrams of canthaxanthin per kilogram.

8.4Polymethylolcarbamide (IFN 8-16-584)

is pulverulent spray-dried urea-formaldehyde resin in a urea: formaldehyde molar ratio of 1:1.6 to 1:2. It shall not contain more than four percent free formaldehyde. It shall be labelled with one or both of the following statements:

"This product is for use in feeds for ruminants and meat producing poultry as a pelleting aid in amounts not to exceed 0.3 percent of the finished pellets. Consult the Compendium of Medicating Ingredient Brochures for acceptable drug compatibilities with this product"; or«Ce produit est destiné à être utilisé comme agent de pelletisation dans les aliments du bétail pour des ruminants et volailles aux fins de production de viande, en quantité ne devant pas dépasser 0,3 pour cent dans les agglomérés complets. Consulter le Recueil des notices sur les substances médicamenteuses pour connaître les compatibilités de ce produit avec les médicaments.»**8.5**Astaxanthin (IFN 8-30-434)

is a naturally occurring carotenoid formulated in an organic matrix. It shall be labelled with one or both of the following statements:

"Astaxanthin is for use as a colouring agent in fish feeds at a rate not to exceed 200 grams per tonne of the complete feed"; or«L'Astaxanthin doit être utilisé comme agent de coloration dans des aliments pour poissons, en quantité ne devant pas dépasser 200 grammes par tonne de l'aliment complet.»

It shall also be labelled with a guarantee for minimum milligrams astaxanthin per kilogram.

8.6Bacillus culture dehydrated (IFN 8-19-119)is the dried product composed of homo-fermentative Bacillus species and the medium in which it is grown, dried in such a manner as to preserve the viability of the Bacillus bacteria. The Bacillus culture shall not be affected with any communicable disease which would render it unsuitable for importation into Canada pursuant to Section 7 of the Health of Animals Regulations. It shall be labelled with one or both of the following statements:"This product is for use only as a component of a silage additive to aid in the production of lactic acid or to lower the pH of the ensiled plant materials"; or«Ce produit est destiné à n'être utilisé que comme composant d'un additif ajouté aux fourrages ensilés pour aider la production d'acide lactique au réduire le pH des végétaux ensilés.»

It shall also be labelled with a guarantee for the minimum number of colony forming units per unit of weight.

8.7Enterococcus culture dehydrated (IFN 8-19-120)is the dried product composed of homo-fermentative lactic acid-producing Enterococcus species and the medium in which it is grown, dried in such a manner as to preserve the viability of the Enterococcus bacteria. The Enterococcus culture shall not be affected with any communicable disease which would render it unsuitable for importation into Canada pursuant to Section 7 of the Health of Animals Regulations. It shall be labelled with one or both of the following statements:"This product is for use only as a component of a silage additive to aid in the production of lactic acid or to lower the pH of the ensiled plant materials"; or «Ce produit est destiné à n'être utilisé que comme composant d'un additif ajouté aux fourrages ensilés pour aider la production d'acide lactique au réduire le pH des végétaux ensilés.»

It shall also be labelled with a guarantee for the minimum number of colony forming units per unit weight.

8.9

Lactobacillus culture dehydrated (IFN 8-06-174)

is the dried product composed of homo-fermentative lactic acid-producing Lactobacillus species and the medium in which it is grown, dried in such a manner as to preserve the viability of the Lactobacillus bacteria. The Lactobacillus culture shall not be affected with any communicable disease which would render it unsuitable for importation into Canada pursuant to Section 7 of the Health of Animals Regulations. It shall be labelled with one or both of the following statements:

"This product is for use only as a component of a silage additive to aid in the production of lactic acid or to lower the pH of the ensiled plant materials or as a source of viable organisms in viable microbial products"; or
«Ce produit est destiné à n'être utilisé que comme composant d'un additif ajouté aux fourrages ensilés pour aider la production d'acide lactique ou réduire le pH des végétaux ensilés ou comme une source d'organismes vivants dans les produits microbiens viable.»

It shall also be labelled with a guarantee for the minimum number of colony forming units per unit weight.

8.10

Pediococcus culture dehydrated (IFN 8-18-667)

is the dried product composed of homo-fermentative lactic acid-producing Pediococcus species and the medium in which it is grown, dried in such a manner as to preserve the viability of the Pediococcus bacteria. The Pediococcus culture shall not be affected with any communicable disease which would render it unsuitable for importation into Canada pursuant to Section 7 of the Health of Animals Regulations. It shall be labelled with one or both of the following statements:

"This product is for use only as a component of a silage additive to aid in the production of lactic acid or to lower the pH of the ensiled plant materials, or as a source of viable organisms in viable microbial products"; or
«Ce produit est destiné à n'être utilisé que comme composant d'un additif ajouté aux fourrages ensilés pour aider la production d'acide lactique ou réduire le pH des végétaux ensilés, ou comme une source d'organismes vivants dans les produits microbiens viables.»

It shall also be labelled with a guarantee for the minimum number of colony forming units per unit weight.

8.11

Phaffia rhodozyma, dehydrated (or Phaffia rhodozyma yeast) (IFN 8-32-187)

is the product resulting from the heat pasteurization, mechanical homogenization and spray-drying of Phaffia rhodozyma yeast cells selected for their ability to concentrate the astaxanthin pigment. It shall be labelled with one or both of the following statements:

"This product is for use as a colouring agent in fish feeds at a rate not to exceed 200 grams of astaxanthin per tonne of feed"; or
«Ce produit doit être utilisé comme agent de coloration dans des aliments de poisson, en quantité ne devant pas dépasser 200 grammes par tonne d'aliment complet.»

It shall be labelled with a guarantee for minimum milligrams of astaxanthin per kilogram.

8.12

Streptococcus culture dehydrated (IFN 8-16-285)

is the dried product composed of homo-fermentative lactic acid-producing Streptococcus species and the medium in which it is grown, dried in such a manner as to preserve the viability of the Streptococcus bacteria. The Streptococcus culture shall not be affected with any communicable disease which would render it unsuitable for importation into Canada pursuant to section 7 of the Health of Animals Regulations. It shall be labelled with one or both of the following statements:

"This product is for use only as a component of a silage additive to aid in the production of lactic acid or to lower the pH of the ensiled plant materials or as a source of viable organisms in viable microbial products"; or
«Ce produit est destiné à n'être utilisé que comme composant d'un additif ajouté aux fourrages ensilés pour aider la production d'acide lactique ou réduire le pH des végétaux ensilés ou comme une source d'organismes vivants dans les produits microbiens viables.»

It shall also be labelled with a guarantee for the minimum number of colony-forming units per unit weight.

8.13

Yeast active dehydrated (or Saccharomyces active dehydrated) (IFN 7-05-524)

is the product composed of a strain of yeast of the botanical classification Saccharomyces which has been dried in such a manner as to preserve the viability of the Saccharomyces. It may or may not contain the media in which it is grown. Such media shall not be fortified with levels of minerals and vitamins above those required for optimal growth of the yeast cells. Where the media is included it shall be stated on the label. The culture shall not contain any pathogenic organism or be infected with any communicable disease, which would render it unsuitable for importation into Canada pursuant to the Health of Animals Act. It shall be labelled with the minimum number of Saccharomyces cells per unit of weight.

8.14

Wood pulp (IFN -- --)

consists of the product obtained by the mechanical processing of wood chips, and the subsequent bleaching with peroxide. It shall be labelled with one or both of the following statements:

"This product is for use as a dewatering agent in wet byproduct feeds for livestock in an amount not to exceed 3 per cent of the byproduct"; or
«Ce produit est destiné à être utilisé comme agent de rétention en quantité ne devant pas dépasser 3 pour cent dans le sous-produit.»

8.55

Plantago seed husk (or Psyllium seed husk) (IFN -- --)

consists of the outer covering of the psyllium seed. It shall be labelled with guarantees for minimum crude protein, maximum crude fibre and maximum moisture. It shall also be labelled with one or both of the following statements:

"This product is for use as a source of dietary fibre in an amount not to exceed 2.0% of the total diet." ; or

«Ce produit est utilisé comme source de fibre de diète en quantité ne devant pas dépasser 2.0% de la diète totale.»

8.56

Poly(2-vinylpyridine-co-styrene) (IFN -- --)

is the copolymer comprised of 10-40% styrene and 60-90% 2-vinylpyridine and shall not contain residual monomeric levels greater than 200 ppb for each monomer. This polymer is approved as a bypass coating for nutritional supplements for dairy and beef cattle. The maximum use of poly(2-vinylpyridine-co-styrene) from all sources shall not exceed 5.1 grams per head per day.

8.57

Propionibacterium jensenii culture, dehydrated (or Dried Propionibacterium jensenii culture) (IFN -- --)

is the dried product composed of an homo-fermentative, propionic acid producing strain of Propionibacterium jensenii, and the medium in which it is grown, dried in such a manner as to preserve the viability of the Propionibacterium jensenii bacteria. The Propionibacterium culture shall not be affected with any communicable disease which would render it unsuitable for importation into Canada pursuant to Section 7 of the Health of Animals Regulations. It shall be labelled with one or both of the following statements:

"This product is for use only as a component of a silage additive to aid in the production of propionic acid or to lower the pH of the ensiled plant materials." ; or

«Ce produit est destiné à n'être utilisé que comme composant d'un additif ajouté aux fourrages ensilés pour aider la production d'acide propionique ou réduire le pH des végétaux ensilés.»

It shall also be labelled with a guarantee for the minimum number of colony forming units per unit weight.

8.58

Sodium Carbonate Lignin Dehydrated (IFN -- --)

is the by-product of pulping hardwood chips with sodium carbonate and steam in a digester until the lignin is solubilized. There is no bleaching step in this process. The product is dehydrated by spray drying to a fine powder with 96% solids. It shall be labelled with one or both of the following statements:

"This product is for use in feeds as a pelleting aid. Consult the Compendium of Medicating Ingredient Brochure for acceptable drug compatibilities with this product."; or

«Ce produit est destiné comme agent de pelletisation dans les aliments du bétail. Consulter le Recueil des notices sur les substances médicamenteuses pour connaître les compatibilités acceptables avec ce produit.»

It shall be labelled with guarantees for maximum ash and maximum moisture.

8.59

Zeolite ore (IFN --)

is a naturally occurring crystalline, hydrated alkali-aluminum silicate found in sedimentary deposits containing only approved species of zeolite, for use only as flowing/anti-caking agents. The principal species of zeolite must be listed. It shall be labelled with one or both of the following statements:

"This product is for use as a flowing/anti-caking agent in an amount not to exceed two percent (2%) of the finished feed" or «Ce produit est destiné à être utilisé comme agent fluidifiant ou antiagglomérant, en quantité ne devant pas dépasser deux pour cent (2%) de l'aliment fini».

8.60

Yucca Schidigera Powder (or Dried Yucca Schidigera) (IFN --)

is the product obtained when the whole stem (trunk) of the Yucca Schidigera plant is shredded, sun-dried and pulverized into a fine powder. It shall be labelled with one or both of the following statements: "This product is for use only as a component of an odour control agent." and/or «Ce produit est destiné à n'être utilisé que comme composant des agentes pour contrôle des odeurs»

8.61

Yucca Mohave, Extract (or Yucca Schidigera Extract) (IFN 8-19-700)

is the product obtained from the water extraction of chopped and/or shredded Yucca Schidigera stems (Mohave yucca). This product is clarified and stabilized with copper and/or sodium benzoate. It shall be labelled with one or both of the following statements: "This product is for use only as a component of an odour control agent." and/or «Ce produit est destiné à n'être utilisé que comme composant des agentes pour contrôle des odeurs»

8.62

Yucca Mohave, Sap (or Yucca Schidigera Sap) (IFN 8-18-811)

is the sap obtained from chopped and/or shredded Yucca Schidigera stems (Mohave yucca). It shall be labelled with one or both of the following statements: "This product is for use only as a component of an odour control agent." and/or «Ce produit est destiné à n'être utilisé que comme composant des agentes pour contrôle des odeurs»

8.63

Haematococcus algae meal, comminuted, dehydrated (or Dried Haematococcus algae meal)

is the comminuted (pulverized/homogenized) dried spores of an unmodified strain of Haematococcus (Phylum Chlorophyta, Class Chlorophyceae, Order Volvocales, Family Haematococcaceae), for use in fish feeds as a source of the pigment astaxanthin. It may be blended with suitable carrier to standardize astaxanthin concentration. If carrier is included it shall be stated on the label. If antioxidant is used, it shall be stated on the label. It shall be labelled with minimum mg/kg astaxanthin, and maximum % moisture. It shall also be labelled with one or both of the following statements:

"Astaxanthin is for use as a colouring agent in fish feeds at a rate not to exceed 200 grams per tonne of the complete feed"; or

«L'Astaxanthin doit être utilisé comme agent de coloration dans des aliments pour poissons, en quantité ne devant

pas dépasser 200 grammes par tonne de l'aliment complet.»

8.64

Lactococcus Culture Dehydrated (or Dried Lactococcus Culture) is the dried product composed of homo-fermentative lactic acid-producing Lactococcus species and the medium in which it is grown, dried in such a manner as to preserve the viability of the Lactococcus bacteria. The Lactococcus culture shall not be affected with any communicable disease which would render it unsuitable for importation into Canada pursuant to Section 7 of the Health of Animals Regulations. It shall be labelled with one or both of the following statements:

"This product is for use only as a component of a silage additive to aid in the production of lactic acid or to lower the pH of the ensiled plant materials"; or

«Ce produit est destiné à n'être utilisé que comme composant d'un additif ajouté aux fourrages ensilés pour aider la production d'acide lactique au réduire le pH des végétaux ensilés.»

It shall also be labelled with a guarantee for the minimum number of colony forming units per unit weight.

8.65

Bifidobacteria Culture Dehydrated (or Dried Bifidobacteria Culture) is the dried product composed of homo-fermentative lactic acid-producing Bifidobacteria species and the medium in which it is grown, dried in such a manner as to preserve the viability of the Bifidobacteria bacteria. The Bifidobacteria culture shall not be affected with any communicable disease which would render it unsuitable for importation into Canada pursuant to Section 7 of the Health of Animals Regulations. It shall be labelled with one or both of the following statements:

"This product is for use only as a component of a silage additive or as a source of viable organisms in viable microbial products"; or

«Ce produit est destiné à n'être utilisé que comme composant d'un additif ajouté aux fourrages ensilés ou comme une source d'organismes vivants dans les produits microbiens viable.»

It shall also be labelled with a guarantee for the minimum number of colony forming units per unit weight.

8.66

Ginseng Root - Panax quinquefolius, Dried (or North American Ginseng Root) is the dried and ground root of Ginseng, Panax quinquefolius for use in livestock feeds to improve storage stability of meat. It shall be labelled with guarantees for maximum % moisture.

8.67

Coded Paper Tracer

consists of unbleached paper, which may be coded with approved colouring ingredients as per Schedule IV of the Feeds Regulations and/or ink. It shall be labelled with the following statements:

"This product is to be used as a tracer for lot identification at a rate not to exceed 0.02% or 200 ppm in complete feed" and/or « Ce produit doit être utilisé comme traceur pour l'identification des lots à un taux maximal de 0,02 % ou 200 ppm dans l'aliment du bétail complet. »

8.68

Coded Paper Tracer, Coated (or Coated Paper Tracer)

consists of unbleached paper, which may be coded with approved colouring ingredients as per Schedule IV of the Feeds Regulations and/or ink and coated with polyethylene. It shall be labelled with the following statements:

"This product is to be used as a tracer for lot identification at a rate not to exceed 0.02% or 200ppm in complete feed. This product is coated with polyethylene at a rate not to exceed 0.005% or 50 ppm in complete feed." and/or « Ce produit doit être utilisé comme traceur pour l'identification des lots à un taux maximal de 0,02 % ou 200 ppm dans l'aliment du bétail complet. Le produit est couché avec du polyéthylène à un taux maximal de 0,005 % ou 50 ppm dans l'aliment complet; »

8.69

Phytic acid

is hexakis (dihydrogen phosphate) myo-inositol and is the ingredient resulting from the extraction of defatted rice bran with sulfuric acid, and of the removal of ions using a chromatographical procedure. It shall be labelled with one or both of the following statements:

"This product is for use as an antioxidant in an amount not to exceed 10 parts per million of the complete feed"; or «Ce produit est destiné à être utilisé comme antioxydant dans les pigments, en quantité ne devant pas dépasser 10 parties par million (ppm) de l'aliment complet.»

It shall also be labelled with a guarantee for minimum phytic acid.

8.70

Carrageenan (or Kappa-Carrageenan)

is the refined hydrocolloid prepared by processing of the species Euचेuma cottonii, a red seaweed of the family Solieraceae (class Rhodophyceae). The minimum viscosity of a 1.5% solution of carrageenan shall be 5 centipoises at 75°, as determined by F.C.C. method for Carrageenan, 3rd Edition. It shall be labelled with guarantees for minimum viscosity (as determined by F.C.C. method for Carrageenan, 3rd Edition) and maximum moisture. It shall also be labelled with the statement "This product is for use as a gelling agent for nutrient gels to be fed only to day old poultry during shipping and handling in an amount not to exceed 2.1% of the product." or "Ce produit est destiné à servir d'agent gélifiant pour les gels d'éléments nutritifs à donner à manger seulement aux volailles d'un jour pendant l'expédition et la manipulation, et sa concentration ne doit pas dépasser 2.1% du produit".

8.71

Kluyveromyces culture dehydrated (or Dried Kluyveromyces culture)

is the product composed of a strain of yeast of the botanical classification Kluyveromyces which has been dried in such a manner as to preserve the viability of the Kluyveromyces. It may or may not contain the media in which it is grown. Such media shall not be fortified with levels of minerals or vitamins above those required for optimal growth of the yeast cells. The culture shall not contain any pathogenic organism or be infected with any communicable disease, which would render it unsuitable for importation into Canada pursuant to the Health of Animals Act. It shall be labelled with one or both of the following statements:

"This product is for use as a source of viable organisms in viable microbial products"; or

«Ce produit est destiné à n'être utilisé que comme une source d'organismes vivants dans les produits microbiens viables.»

It shall also be labelled with a guarantee for the minimum number of Kluyveromyces cells per unit weight.

SCHEDULE IV - PART I

INDEX

Ingredient Name	Item	IFN **
Acetic acid *	8.1	8-19-655
Acetomenaphthone *	7.1.28	7-32-194
Acidulated fatty acids	4.5.11	4-18-661
Acidulated soapstock *	4.5.11	4-18-661
Adipic acid *	8.68	8-18-664
Agar *	8.138	-----
Alfalfa cubes	1.26	-----
Alfalfa cubes dehydrated*	1.26	-----
Alfalfa hay sun-cured ground *	1.2	1-00-111
Alfalfa leaf meal	1.3	1-00-137
Alfalfa leaves meal dehydrated *	1.3	1-00-137
Alfalfa maize cubes	1.27	-----
Alfalfa corn cubes	1.27	-----
Alfalfa meal dehydrated *	1.4	1-00-025
Alfalfa stem meal	1.5	1-00-165
Alfalfa stems sun-cured ground *	1.5	1-00-165
Alfalfa-corn cubes dehydrated	1.27	-----
Alfalfa-grass hay sun-cured ground *	1.1	1-29-774
Alfalfa-grass meal	1.1	1-29-774
Alfalfa-maize cubes dehydrated*	1.27	-----
Alfalfa-timothy cubes	1.28	-----
Alfalfa-timothy Cubes, dehydrated*	1.28	-----
Algin	8.98	8-20-961
Alginic acid sodium salt	8.98	8-20-961
Allura Red dye *	8.123	-----
Aluminum hydrate	8.115	-----
Aluminum hydroxide, (AlH ₃ O ₃) *	8.115	-----
Amaranth dye *	8.69	8-18-665
Aminoacetic acid	5.6.4	5-02-127
Aminobenzoic acid, p-	7.1.1	7-03-513
Ammonium chloride *	8.70	8-08-814
Ammonium hydroxide *	8.71	6-26-402
Ammonium phosphate dibasic (NH ₄) ₂ HPO ₄ *	6.1	6-00-370
Ammonium phosphate monobasic (NH ₄)H ₂ PO ₄ *	6.2	6-09-338
Ammonium polyphosphate solution *	6.3	6-08-042
Ammonium sulfate (NH ₄) ₂ SO ₄ *	6.4	6-09-339
Anhydrous alcohol	8.79	-----
Anhydrous ammonia NH ₃ *	5.7.1	5-14-511
Animal blood cells, spray dehydrated*	5.1.37	-----
Animal blood meal, conventional cooker dehydrated	5.1.1	5-26-005
Animal blood meal, flash or ring dehydrated	5.1.2	5-26-006
Animal blood meal, spray dehydrated	5.1.3	5-00-381
Animal blood plasma spray dehydrated *	5.1.20	5-00-382
Animal blood serum spray dehydrated	5.1.20	5-00-382
Animal bone collagen hydrolysed *	8.2	8-16-472
Animal bone meal steamed *	6.5	6-00-400
Animal by products, dehydrated *	5.1.32	-----
Animal digest	5.1.29	5-06-935
Animal digest condensed *	5.1.29	5-06-935
Animal digest dehydrated *	5.1.31	-----
Animal fat *	4.5.1	4-00-409
Animal fat hydrolyzed *	4.5.9	4-00-376
Animal hair hydrolyzed	5.1.4	5-08-997
Animal meat by-products fresh	5.1.5	5-00-395
Animal meat meal rendered	5.1.6	5-00-385
Animal meat products, cooked	5.1.38	-----
Animal meat solubles dehydrated *	5.1.21	5-00-393
Animal meat with bone meal rendered	5.1.7	5-00-388
Animal skin fleshing hydrolysed rendered dehydrated *	5.1.22	5-08-094
Animal tankage rendered	5.1.8	5-00-386
Animal tankage with bone meal rendered *	5.1.9	5-00-387
Animal vegetable fat *	4.5.2	4-12-249
Animal vegetable fat residues	4.5.10	4-30-432
Animal vegetable feeding fat	4.5.2	4-12-249
Animal-plant distillers residue *	4.5.10	4-30-432
Annatto extract	8.116	-----
Annatto seeds, extract *	8.116	-----
Apples, dehydrated, sliced, diced or ground *	4.6.30	-----

* International Feed Name

** International Feed Number

August 30, 2005

SCHEDULE IV - PART I

INDEX

Ingredient Name	Item	IFN **
Apples, fresh crushed *	4.6.29	-----
Apple pomace dehydrated *	4.6.9	4-00-423
Apple pomace fresh *	4.6.28	-----
Artichoke, jerusalem *	1.18	1-19-121
Ascorbic acid *	7.1.2	7-00-433
Ascorbic acid monophosphate	7.1.30	-----
Ascorbic acid polyphosphate	7.1.24	7-32-162
Ascorbyl palmitate *	8.3	8-26-245
<i>Aspergillus niger</i> fermentation extract dehydrated *	5.4.1	5-06-148
<i>Aspergillus niger</i> fermentation product dehydrated *	5.4.2	5-06-151
<i>Aspergillus niger</i> fermentation product liquid *	5.4.3	5-06-157
<i>Aspergillus niger</i> fermentation solubles dehydrated *	5.4.4	5-29-781
<i>Aspergillus niger</i> fermentation solubles meal extracted dehydrated *	5.4.5	5-18-670
<i>Aspergillus niger</i> fermentation solubles liquid	5.4.62	-----
<i>Aspergillus oryzae</i> fermentation extract dehydrated *	5.4.6	5-06-149
<i>Aspergillus oryzae</i> fermentation product dehydrated *	5.4.7	5-06-152
<i>Aspergillus oryzae</i> fermentation product liquid *	5.4.8	5-06-158
<i>Aspergillus oryzae</i> fermentation solubles dehydrated *	5.4.9	5-29-780
<i>Aspergillus oryzae</i> fermentation solubles, liquid condensed	5.4.65	-----
<i>Aspergillus oryzae</i> fermentation solubles meal extracted dehydrated *	5.4.10	5-18-671
Attapulgitte Clay *	8.118	8-14-008
<i>Bacillus acidopullulyticus</i> fermentation extract dehydrated *	5.4.11	5-19-214
<i>Bacillus amyloliquefaciens</i> fermentation product liquid	5.4.58	-----
<i>Bacillus amyloliquefaciens</i> fermentation solubles condensed	5.4.66	-----
<i>Bacillus amyloliquefaciens</i> fermentation solubles liquid*	5.4.52	-----
<i>Bacillus lichenformis</i> fermentation extract dehydrated *	5.4.12	5-19-116
<i>Bacillus lichenformis</i> fermentation solubles dehydrated *	5.4.45	-----
<i>Bacillus lichenformis</i> fermentation solubles liquid	5.4.59	-----
<i>Bacillus subtilis</i> fermentation extract dehydrated *	5.4.13	5-06-147
<i>Bacillus subtilis</i> fermentation product dehydrated *	5.4.14	5-06-150
<i>Bacillus subtilis</i> fermentation product liquid *	5.4.15	5-06-156
<i>Bacillus subtilis</i> fermentation solubles dehydrated *	5.4.16	5-29-779
<i>Bacillus subtilis</i> fermentation solubles, liquid	5.4.61	-----
Bakery waste dehydrated *	4.6.1	4-00-466
Barley brewers grains dehydrated *	5.5.1	5-00-516
Barley brewers grains wet *	5.5.3	5-00-517
Barley distillers dried grains dehydrated *	5.5.3	5-00-518
Barley distillers grains with solubles dehydrated *	5.5.4	5-12-185
Barley distillers solubles condensed *	5.5.5	5-12-210
Barley distillers solubles dehydrated *	5.5.6	5-00-520
Barley feed	4.2.2	4-00-548
Barley grain *	4.1.2	4-00-549
Barley grass powder*	1.25	-----
Barley malt flour dehydrated *	8.4	8-16-303
Barley malt sprouts dehydrated *	5.5.7	5-00-545
Barley mill by-product	4.2.1	4-00-523
Barley mill run *	4.2.1	4-00-523
Barley mixed feed	4.2.1	4-00-523
Barley mixed grain	4.1.1	4-29-789
Barley pearl by-product *	4.2.2	4-00-548
Barley-cereals grain *	4.1.1	4-29-789
Bean navy seeds heat processed *	5.3.1	5-29-785
Beet molasses	4.4.1	4-30-289
Beet sugar *	4.6.14	4-06-176
Beet sugar molasses *	4.4.1	4-30-289
Beet sugar molasses, com cob fractions dehydrated added *	4.4.5	4-30-292
Beet sugar molasses, soybean mill run dehydrated added *	4.4.4	4-30-291
Beet sugar pulp *	4.4.9	4-00-671
Beet sugar pulp dehydrated *	4.4.2	4-00-669
Beet sugar pulp, molasses added dehydrated *	4.4.3	4-00-672
Beet sugar Steffens filtrate condensed *	5.8.1	5-00-679
Bentonite calcium *	8.5	8-00-695
Bentonite sodium *	8.6	8-14-512
Benzoic acid *	8.7	8-26-244
Betaine	7.1.27	7-32-193
Betaine, anhydrous *	7.1.27	7-32-193
Betaine hydrochloride *	7.1.3	7-00-722

* International Feed Name

** International Feed Number

August 30, 2005

SCHEDULE IV - PART I

INDEX

Ingredient Name	Item	IFN **
Biotin, d-	7.1.4	7-00-723
Biuret *	5.7.2	5-09-824
<i>Bixa orellana</i> seed extract	8.116	-- --
Bluestone	6.28	6-01-719
Brewers dried grains	5.5.1	5-00-516
Brewers rice	4.2.21	4-03-932
Brewers wet grains	5.5.2	5-00-517
Brilliant Blue FCF dye *	8.72	8-30-386
Brilliant Blue FCF Lake *	8.8	8-15-911
Broadbean seeds *	5.3.2	5-09-262
Broken rice	4.2.21	4-03-932
Buckwheat grain *	4.1.19	-- --
Buckwheat hulls *	1.22	1-12-238
Buckwheat middlings *	4.2.23	-- --
Butylated hydroxyanisole *	8.9	8-01-044
Butylated hydroxyanisole (BHA)	8.9	8-01-044
Butylated hydroxytoluene *	8.10	8-01-045
Butylated hydroxytoluene (BHT)	8.10	8-01-045
Calcined petroleum coke	8.84	6-26-410
Calcium 2-methylbutyrate *	4.5.14	4-18-975
Calcium acetate *	8.11	8-15-814
Calcium ascorbate	8.73	8-26-246
Calcium carbonate CaCO ₃ *	6.6	6-01-069
Calcium carbonate CaCO ₃ , precipitated *	6.91	6-01-201
Calcium chloride CaCl ₂ *	6.7	6-20-774
Calcium citrate *	8.134	-- --
Calcium d-pantothenate *	7.1.5	7-01-079
Calcium dl-pantothenate *	7.1.6	7-17-904
Calcium flour	6.6	6-01-069
Calcium formate *	8.74	8-30-388
Calcium gluconate *	8.130	6-01-073
Calcium hydroxide *	6.8	6-14-014
Calcium iodate Ca(IO ₃) ₂ *	6.9	6-01-075
Calcium isobutyrate *	4.5.12	4-18-973
Calcium isovalerate *	4.5.13	4-18-974
Calcium L-ascorbate *	8.73	8-26-246
Calcium lactate *	8.75	8-30-387
Calcium n-valerate *	4.5.15	4-18-977
Calcium periodate *	6.92	6-09-355
Calcium phosphate dibasic CaHPO ₄ *	6.10	6-01-080
Calcium phosphate monobasic CaH ₂ (PO ₄) ₂ *	6.11	6-01-082
Calcium phosphate tribasic Ca ₃ (PO ₄) ₂ *	6.12	6-01-084
Calcium propionate *	8.12	8-01-085
Calcium silicate CaSiO ₃ *	8.13	8-08-043
Calcium stearate Ca(C ₁₈ H ₃₅ O ₄) ₂ *	8.14	8-09-345
Calcium sulfate anhydrous CaSO ₄ *	6.14	6-01-087
Calcium sulfate dihydrate CaSO ₄ ·2H ₂ O *	6.15	6-01-090
<i>Candida famata</i> fermentation solubles dehydrated *	5.4.47	-- --
Canola meal	5.3.3	5-06-145
Canola meal	5.3.4	5-06-146
Canola meal prepress solvent extracted low erucic acid low glucosinolates *	5.3.3	5-06-145
Canola meal solvent extracted low erucic acid low glucosinolates *	5.3.4	5-06-146
Canola oil	4.5.3	4-06-144
Canola oil low erucic acid low glucosinolates *	4.5.3	4-06-144
Canola seed	5.3.43	-- --
Canola, whole, low erucic acid, low glucosinolates *	5.3.43	-- --
Caramel *	8.76	8-18-933
Caramel colour	8.76	8-18-933
Carnitine, L-	5.6.16	-----
Carob bean gum	8.88	8-07-250
Carrot root, fresh ground *	4.6.31	-----
Casein	5.1.18	5-01-162
Casein acid precipitated dehydrated *	5.1.18	5-01-162
Casein hydrolysed dehydrated *	5.1.26	5-08-055
Cassava tubers, sun-cured and chipped	4.6.32	4-18-896
Cast steel grits	8.132	-- --
Cattle buttermilk dehydrated *	5.1.14	5-01-160

* International Feed Name

** International Feed Number

August 30, 2005

SCHEDULE IV - PART I

INDEX

Ingredient Name	Item	IFN **
Cattle cheese rind *	5.1.23	5-01-163
Cattle cheese trimming dehydrated *	5.1.24	5-32-189
Cattle milk dehydrated *	5.1.15	5-01-167
Cattle milk protein dehydrated *	5.1.25	5-08-044
Cattle skim milk cultured condensed *	5.4.32	5-01-173
Cattle skim milk cultured dehydrated *	5.4.33	5-01-174
Cattle skim milk dehydrated *	5.1.16	5-01-175
Cattle whey and whey solubles, dehydrated *	4.6.27	-----
Cattle whey condensed *	4.6.2	4-01-180
Cattle whey cultured condensed *	4.6.3	4-01-181
Cattle whey dehydrated *	4.6.4	4-01-182
Cattle whey fermentation solubles condensed *	5.4.34	5-06-300
Cattle whey fresh *	4.6.18	4-08-134
Cattle whey low lactose dehydrated *	4.6.5	4-01-186
Cattle whey protein dehydrated *	5.1.17	5-06-836
Cattle whey solubles condensed	4.6.26	4-01-188
Cattle whey solubles condensed modified *	4.6.26	4-01-188
Cattle whey solubles dehydrated *	5.1.30	4-01-189
Cattle whey solubles on carrier, dehydrated *	5.1.35	-----
Cellulose	1.7	1-15-514
Cellulose ethyl ether	8.80	4-08-045
Cellulose powdered *	1.7	1-15-514
Cephalopod mollusc oil	4.5.17	-----
Cereal-offal	4.6.7	4-01-199
Cereals breakfast process residue *	4.6.7	4-01-199
Cereals food fines	4.6.7	4-01-199
Cereals grain screenings grade 1 *	3.2.1	4-02-154
Cereals grain screenings grade 2 *	4.3.2	4-02-155
Cereals grain screenings refuse *	4.3.3	4-02-151
Cereals grain screenings uncleaned *	4.3.4	4-02-153
Cereals grass meal dehydrated *	1.8	1-16-289
Cereals mixed grains	4.1.3	4-29-790
Chalk, precipitated	6.91	6-01-201
Cheese powder	5.1.23	5-01-163
Cheese product dehydrated *	5.1.33	-----
Cheese rind	5.1.23	5-01-163
Chipped rice	4.2.21	4-03-932
Choline bitartrate *	7.1.26	7-18-674
Choline chloride solution *	7.1.7	7-17-881
Choline chloride with carrier *	7.1.8	7-17-900
<i>Chondrus Crispus</i>	8.135	-----
Citric acid *	8.15	8-01-233
Citric acid fermentation presscake meal extracted *	5.4.17	5-06-162
Citric acid fermentation solids with solubles liquid *	5.4.18	5-06-171
Citric acid fermentation solubles extracted dehydrated *	5.4.19	5-06-165
Citric acid fermentation solubles meal extracted dehydrated *	5.4.20	5-06-168
Citric ester of mono and di- glycerides *	8.117	-----
Citrus pomace without fines dehydrated *	1.20	4-01-237
Clam meal	5.2.12	-----
Clam powder	5.2.12	-----
Clam process residue meal *	5.2.12	-----
Cobalt carbonate	6.16	6-01-566
Cobalt glucoheptonate *	6.109	-----
Cobalt gluconate *	6.121	6-19-210
Cobalt sulfate	6.21	6-01-562
Cobalt sulfate heptahydrate	6.20	6-01-564
Cobaltous carbonate CoCO_3 *	6.16	6-01-566
Cobaltous sulfate heptahydrate $\text{CoSO}_4 \cdot 7\text{H}_2\text{O}$ *	6.20	6-01-564
Cobaltous sulfate monohydrate $\text{CoSO}_4 \cdot \text{H}_2\text{O}$ *	6.21	6-01-562
Coconut kernels with coats meal mechanical extracted *	5.3.52	5-01-572
Coconut kernels with coats meal solvent extracted *	5.3.6	5-01-573
Coconut kernels with coats oil *	4.5.4	4-09-320
Coconut meal	5.3.5	5-01-572
Coconut meal	5.3.6	5-01-573
Coconut oil	4.5.4	4-09-320
Condensed <i>Aspergillus oryzae</i> fermentation solubles, liquid	5.4.65	-----
Condensed <i>Bacillus amyloliquifaciens</i> fermentation solubles	5.4.66	-----
Condensed cultured whey	4.6.3	4-01-181
Condensed fermented corn extractives	4.2.9	4-02-890
Condensed fermented corn extractives with germ meal and bran dehydrated	5.8.2	5-09-333

* International Feed Name

** International Feed Number

August 30, 2005

SCHEDULE IV - PART I

INDEX

Ingredient Name	Item	IFN **
Condensed fermented maize extractives	4.2.9	4-02-890
Condensed fermented maize extractives with germ meal and bran dehydrated	5.8.2	5-09-333
Condensed fish protein digest	5.2.2	5-27-466
Condensed Steffen filtrate	5.8.1	5-00-679
Condensed whey	4.6.2	4-01-180
Condensed whey fermentation solubles	5.4.34	5-06-300
Cooked meat products	5.1.38	-----
Copper carbonate	6.25	6-01-703
Copper gluconate *	6.120	6-01-707
Copper oxide	6.26	6-01-711
Copper sulfate	6.28	6-01-719
Copperas	6.36	6-20-734
Copra meal	5.3.5	5-01-572
Copra meal	5.3.6	5-01-573
Corn and cob meal	4.2.4	4-02-849
Corn bran	4.2.3	4-02-841
Corn cob, dehydrated, fine ground	1.9	1-02-781
Corn cob fractions	1.10	1-02-779
Corn cob fractions, screened	1.10	1-02-779
Corn dent white grain	4.1.4	4-02-928
Corn dent yellow grain	4.1.5	4-02-935
Corn distillers grains dehydrated	5.5.8	5-02-842
Corn distillers grains with solubles dehydrated	5.5.9	5-02-843
Corn distillers solubles condensed	5.5.10	5-12-211
Corn distillers solubles dehydrated	5.5.11	5-02-844
Corn ears ground	4.2.4	4-02-849
Corn endosperm oil	4.5.5	4-02-852
Corn extractives condensed fermented with germ meal and bran dehydrated	5.8.2	5-09-333
Corn extractives fermented condensed	4.2.9	4-02-890
Corn feed meal	4.2.6	4-02-880
Corn flour	4.2.5	4-08-024
Corn germ meal (dry milled)	5.3.7	5-02-894
Corn gluten feed	5.3.9	5-02-903
Corn gluten meal	5.3.8	5-02-900
Corn gluten with bran	5.3.9	5-02-903
Corn grain	4.1.6	4-02-879
Corn grain fines	4.2.6	4-02-880
Corn grain starch heat hydrolyzed	4.6.10	4-08-023
Corn grits	4.2.7	4-02-886
Corn grits by-product	4.2.8	4-02-887
Corn kernels heat processed	4.6.20	4-29-354
Corn kibbled	4.2.20	4-02-866
Corn oil	4.5.5	4-02-852
Corn opaque 2 grain (high lysine)	4.1.7	4-11-445
Corn syrup	4.6.11	4-20-104
Corn syrup dehydrated	4.6.21	4-02-892
Corn syrup process residue	4.6.12	4-04-893
Corn syrup refinery insolubles	4.6.12	4-04-893
Corn zein	5.3.40	-----
Corn-alfalfa cubes dehydrated	1.27	-----
Corn-cereals grains	4.1.3	4-29-790
Cornstarch *	4.6.8	4-02-889
Cotton, hulls	1.23	1-01-599
Cotton, seeds *	5.3.10	5-01-614
Cotton seeds meal mechanical extracted *	5.3.11	5-01-609
Cotton seeds meal solvent extracted *	5.3.12	5-11-590
Cottonseed hulls *	1.23	1-01-599
Cottonseed meal	5.3.11	5-01-609
Cottonseed meal	5.3.12	5-11-590
Crab/lobster meal	5.2.1	-----
Crambe meal, solvent extracted	5.3.46	-----
Crushed stone	8.131	-----
Crustacean meal	5.2.1	-----
Crustacean (crab/lobster) process residue meal *	5.2.1	-----
Cubed alfalfa dehydrated	1.26	-----
Cubed alfalfa-corn dehydrated	1.27	-----
Cubed alfalfa-timothy, dehydrated	1.28	-----
Cubed corn-alfalfa dehydrated	1.27	-----
Cubed timothy-alfalfa, dehydrated	1.28	-----

* International Feed Name

** International Feed Number

August 30, 2005

SCHEDULE IV - PART I

INDEX

Ingredient Name	Item	IFN **
Cupric carbonate CuCO ₃ *	6.25	6-01-703
Cupric gluconate	6.120	6-01-707
Cupric oxide CuO *	6.26	6-01-711
Cupric sulfate anhydrous CuSO ₄ *	6.27	6-01-717
Cupric sulfate pentahydrate CuSO ₄ ·5H ₂ O *	6.28	6-01-719
Curacao rock phosphate	6.67	6-05-586
Cut stone	8.131	---
D-Biotin *	7.1.4	7-00-723
D-Glucose *	4.6.15	4-24-966
D-Mannitol *	8.119	---
DL-Methionine hydroxy analogue *	5.6.11	5-30-281
DL-Methionine hydroxy analogue on carrier	5.6.17	---
Dairy food product dehydrated *	5.1.28	---
Defluorinated phosphate	6.59	6-01-780
Dehulled soybean meal	5.3.29	5-04-612
Dehulled sunflower meal	5.3.33	5-30-034
Dehulled sunflower meal	5.3.32	5-30-033
Dehulled sweet lupine	5.3.37	5-30-462
Dehydrated alfalfa cubes	1.26	---
Dehydrated apples	4.6.30	---
Dehydrated cereal grass	1.8	1-16-289
Dehydrated seaweed extract*	8.139	---
Dehydrated seaweed pellets	8.137	---
Dextrin *	4.6.19	4-32-157
Dextrose	4.6.15	4-24-966
Di-sodium-L-ascorbate-2-sulphate *	7.1.25	7-30-458
Diammonium phosphate	6.1	6-00-370
Diatomaceous earth *	8.16	8-09-363
Dicalcium phosphate	6.10	6-01-080
Dimethylpolysiloxane	8.128	---
Dipotassium phosphate	6.104	6-18-673
Disodium EDTA C ₁₀ H ₁₄ O ₈ N ₂ Na ₂ ·2H ₂ O *	8.17	8-05-689
Disodium ethylene diamine tetraacetate	8.17	8-05-689
Disodium phosphate	6.73	6-04-286
Distilled acetylated monoglycerides *	8.125	---
DL-Lactic acid *	8.27	8-26-409
DL-Methionine *	5.6.2	5-03-086
DL-Methionine hydroxy analogue	5.6.11	5-30-281
DL-Methionine hydroxy analogue calcium *	5.6.3	5-03-087
DL-Sodium methionate, aqueous solution *	5.6.10	---
DL-Tryptophan *	5.6.8	5-08-093
Dolomitic limestone	6.97	6-02-633
Dried animal blood plasma	5.1.20	5-00-382
Dried animal blood serum	5.1.20	5-00-382
Dried animal by products	5.1.32	---
Dried animal digest	5.1.31	---
Dried apple pomace	4.6.9	4-00-423
Dried <i>Aspergillus niger</i> fermentation extract	5.4.1	5-06-148
Dried <i>Aspergillus niger</i> fermentation product	5.4.2	5-06-151
Dried <i>Aspergillus niger</i> fermentation solubles	5.4.4	5-29-781
Dried <i>Aspergillus oryzae</i> fermentation extract	5.4.6	5-06-149
Dried <i>Aspergillus oryzae</i> fermentation product	5.4.7	5-06-152
Dried <i>Aspergillus oryzae</i> fermentation solubles	5.4.9	5-29-780
Dried <i>Bacillus acidopullulyticus</i> fermentation extract	5.4.11	5-19-214
Dried <i>Bacillus lichenformis</i> fermentation extract	5.4.12	5-19-116
Dried <i>Bacillus lichenformis</i> fermentation solubles	5.4.45	---
Dried <i>Bacillus subtilis</i> fermentation extract	5.4.13	5-06-147
Dried <i>Bacillus subtilis</i> fermentation product	5.4.14	5-06-150
Dried <i>Bacillus subtilis</i> fermentation solubles	5.4.16	5-29-779
Dried <i>Candida famata</i> fermentation solubles	5.4.47	---
Dried <i>Corynebacterium glutamicum</i> fermentation product*	5.4.53	---
Dried <i>Lactobacillus acidophilus</i> fermentation product	5.4.22	5-06-153
Dried <i>Lactobacillus bulgaricus</i> fermentation product	5.4.24	5-06-154
Dried <i>Rhizopus oryzae</i> fermentation extract	5.4.30	5-30-481
Dried <i>Enterococcus faecium</i> fermentation product	5.4.31	5-06-155
Dried <i>Streptomyces</i> fermentation solubles	5.4.39	5-29-784
Dried barley malt flour	8.4	8-16-303
Dried buttermilk	5.1.14	5-01-160
Dried cheese product	5.1.33	---

* International Feed Name

** International Feed Number

August 30, 2005

SCHEDULE IV - PART I

INDEX

Ingredient Name	Item	IFN **
Dried citrus pulp	1.20	4-01-237
Dried condensed extracted glutamic acid fermentation product	5.4.49	5-01-595
Dried copperas	6.37	6-01-869
Dried corn fermentation solubles *	5.4.48	---
Dried corn syrup	4.6.21	4-02-892
Dried dairy food product	5.1.28	---
Dried egg shell meal	6.123	---
Dried fish autolysed	5.2.11	5-18-662
Dried fish protein digest	5.2.3	5-27-466
Dried fleshings hydrolysate	5.1.22	5-08-094
Dried hydrolysed casein	5.1.26	5-08-055
Dried <i>Lactobacillus acidophilus</i> fermentation product	5.4.22	5-06-153
Dried <i>Lactobacillus buchneri</i> fermentation product	5.4.57	---
Dried <i>Lactobacillus bulgaricus</i> fermentation product	5.4.24	5-06-154
Dried lard water	5.1.21	5-00-393
Dried milk protein	5.1.25	5-08-044
Dried potato waste meal	4.6.13	4-03-775
Dried <i>Rhizopus arrhizus</i> fermentation extract	5.4.50	---
Dried seaweed meal	8.47	1-08-073
Dried skimmed milk	5.1.16	5-01-175
Dried <i>Saccharomyces cerevisiae</i> fermentation extract	5.4.63	---
Dried soluble <i>Saccharomyces cerevisiae</i> fermentation solubles extract	5.4.56	---
Dried tomato pomace	5.8.3	5-05-041
Dried <i>Trichoderma longibrachium</i> fermentation product	5.4.64	---
Dried whey	4.6.4	4-01-182
Dried whey and whey solubles	4.6.27	---
Dried whey product	4.6.5	4-01-186
Dried whey protein concentrate	5.1.17	5-06-836
Dried whey solubles	5.1.30	4-01-189
Dried whey solubles on carrier	5.1.35	---
Dried whole milk	5.1.15	5-01-167
Dried yeast extract	5.4.63	---
Dry molassed beet pulp	4.4.3	4-00-672
Dry pancreas extract	5.1.27	---
Dry spawn	5.2.15	---
Dry whey solubles	5.1.30	4-01-189
Dry whey solubles on carrier	5.1.35	---
EDDI	6.29	6-01-842
<i>Enterococcus faecium</i> fermentation product, dried	5.4.31	5-06-155
<i>Enterococcus faecium</i> fermentation liquid	5.4.36	5-06-161
Eggs without shells dehydrated *	5.1.13	5-01-214
Eggshell meal, dehydrated	6.123	---
Erythorbic acid *	8.77	8-09-823
Erythrosine dye *	8.78	8-18-978
Ethanol *	8.79	---
Ethoxyquin *	8.18	8-01-841
Ethyl alcohol CH ₃ CH ₂ OH	8.79	---
Ethyl cellulose *	8.80	4-08-045
Ethyl citrate	8.122	---
Ethylenediamine dihydroiodide *	6.29	6-01-842
Faba beans	5.3.2	5-09-262
Fast Green FCF dye *	8.81	8-18-979
FD & C Blue No. 1 dye	8.72	8-30-386
FD & C Blue No. 1 Lake	8.8	8-15-911
FD & C Blue No. 2 lake	8.86	8-30-436
FD & C Green No. 3 dye	8.81	8-18-979
FD & C Red No. 2 dye	8.69	8-18-665
FD & C Red No. 3 dye	8.78	8-18-978
FD & C Red No. 40 dye	8.123	---
FD & C Yellow No. 5 dye	8.110	8-30-392
FD & C Yellow No. 5 Lake	8.63	8-15-912
FD & C Yellow No. 6 dye	8.106	---
FD & C Yellow No. 6 lake	8.107	---
Feather and Hog Hair Meal	5.1.36	----- Feather
Feedingfat	4.5.1	4-00-409 Feather
meal	5.1.12	5-03-795
Feather meal with Hog Hair	5.1.36	-----
Feeding meat and bone tankage	5.1.9	5-00-387
Feeding oat meal*	4.2.26	-----

* International Feed Name

** International Feed Number

August 30, 2005

SCHEDULE IV - PART I

INDEX

Ingredient Name	Item	IFN **
Feeding tankage	5.1.8	5-00-386
Ferric ammonium citrate *	6.30	6-01-857
Ferric chloride *	6.31	6-01-865
Ferric oxide *	8.19	6-02-431
Ferrous carbonate FeCO ₃ *	6.33	6-01-863
Ferrous fumarate FeC ₄ H ₂ O ₄ *	6.34	6-08-097
Ferrous gluconate	6.35	6-01-867
Ferrous gluconate dihydrate Fe(C ₆ H ₁₁ O ₇) ₂ ·2H ₂ O *	6.35	6-01-867
Ferrous sulfate heptahydrate FeSO ₄ ·7H ₂ O *	6.36	6-20-734
Ferrous sulfate monohydrate FeSO ₄ ·H ₂ O *	6.37	6-01-869
Feild beans	5.3.2	5-09-262
Fine grind corn cob meal	1.9	1-02-781
Fine grind maize cob meal	1.9	1-02-781
Fish autolysate, condensed *	5.2.13	---
Fish autolyzed dehydrated *	5.2.11	5-18-662
Fish hydrolyzed condensed *	5.2.2	5-27-466
Fish hydrolyzed dehydrated *	5.2.3	5-27-466
Fish meal *	5.2.4	5-01-974
Fish meal condensed *	5.2.14	---
Fish meal mechanical extracted *	5.2.7	5-01-977
Fish meal with solubles *	5.2.5	5-17-896
Fish oil *	4.5.23	---
Fish protein concentrate solvent extracted *	5.2.6	5-09-334
Fish silage	5.2.13	---
Fish solubles condensed *	5.2.8	5-01-969
Fish solubles dehydrated *	5.2.9	5-01-971
Fish Spawn dehydrated *	5.2.15	---
Flaked corn	4.2.24	4-02-859
Flax oil *	4.5.21	---
Flax seeds ground *	5.3.13	5-30-286
Flax seeds meal mechanical extracted *	5.3.14	5-30-287
Flax seeds meal solvent extracted *	5.3.15	5-30-288
Flowers of sulfur	6.82	6-04-705
Folacin	7.1.10	7-02-066
Folic acid *	7.1.10	7-02-066
Formaldehyde solution *	8.82	8-26-243
Formalin	8.82	8-26-243
Formic acid HCOOH *	8.20	8-20-739
Fresh carrots	4.6.31	---
Fresh crushed apples	4.6.29	---
Fresh garden beets	4.6.33	---
Fresh potatoes, sound and/or cull	4.6.36	---
Fresh sweet potatoes	4.6.34	---
Fructose C ₆ H ₁₂ O ₆	4.6.25	---
Fumaric acid *	8.83	8-18-666
Garden beet root, fresh*	4.6.33	---
Gelatin *	8.121	---
Glucose,D-	4.6.15	4-24-966
Glutamic acid fermentation residue concentrated *	5.4.49	5-01-595
Glycerides Hydrogenated	4.5.16	---
Glycerin	8.21	8-19-674
Glycerol *	8.21	8-19-674
Glycerol mono-oleate *	8.22	8-15-844
Glyceryl monostearate *	8.127	---
Glyceryl triacetate *	8.23	8-19-675
Glycine *	5.6.4	5-02-127
Granite	8.131	---
Graphite *	8.84	6-26-410
Grass-alfalfa hay sun-cured ground *	1.6	1-29-775
Grass-alfalfa meal	1.6	1-29-775
Grit *	8.131	---
Ground debarked aspen	1.21	---
Ground extruded whole soybeans	5.3.36	5-14-005
Guaiaic gum	8.95	8-03-909
Guar gum	8.24	4-28-796
Guar mucilage *	8.24	4-28-796
Gum acacia	8.85	8-18-675
Gum arabic *	8.85	8-18-675
<i>Helianthus tuberosus</i> residue	1.18	1-19-121

* International Feed Name

** International Feed Number

August 30, 2005

SCHEDULE IV - PART I

INDEX

Ingredient Name	Item	IFN **
Hexadecanoic acid *	8.136	---
Hominy feed	4.2.8	4-02-887
Hominy grits	4.2.7	4-02-886
Honey	4.6.16	4-02-391
Honey bee honey *	4.6.16	4-02-391
Horse beans	5.3.2	5-09-262
<i>Humicola insolens</i> fermentation extract dehydrated *	5.4.21	5-32-158
Hydrated alumina	8.115	---
Hydrated lime	6.8	6-14-014
Hydrated sodium calcium aluminosilicate	8.99	8-32-165
Hydrobiotite	8.66	8-08-993
Hydrogenated glycerides	4.5.16	----
Hydrogenated vegetable oil	4.5.19	---
Hydrolyzed hair	5.1.4	5-08-997
Hydrolyzed poultry feathers	5.1.12	5-03-795
Hydroxybutanedioic acid	8.124	---
Hydroxymethyl,N,DL-methionine dehydrated calcium salt	5.6.5	5-30-383
2-Hydroxy-1,2,3-propanetricarboxylic acid calcium salt *	8.134	---
2-Hydroxy-4(methylthio) butanoic Acid on carrier*	5.6.17	---
Hydroxysuccinic acid	8.124	---
Indigo carmine lake *	8.86	8-30-436
Indigotine lake	8.86	8-30-436
Inositol *	7.1.11	7-09-354
Irish moss *	8.135	---
Iron carbonate	6.33	6-01-863
Iron grits *	8.132	---
Iron oxide	8.19	6-02-431
Iron reduced *	6.96	6-02-429
Iron sulfate	6.36	6-20-734
Isoamyl alcohol *	8.25	8-15-919
Isoascorbic acid	8.77	8-09-823
Isoleucine, L-	5.6.13	---
Isopentyl alcohol	8.25	8-15-919
Isopropanol	8.26	8-15-850
Isopropyl alcohol *	8.26	8-15-850
Jerusalem artichoke, aerial part, residues	1.18	1-19-121
Kaolin *	8.87	8-08-040
Karaya gum	8.105	8-18-680
Kibbled corn	4.2.20	4-02-866
L-Ascorbic acid-2-monophosphate-calcium salt *	7.1.30	---
L-Ascorbyl-2-polyphosphate *	7.1.24	7-32-162
L-Carnitine *	5.6.16	----
L-Isoleucine *	5.6.13	---
L-Lysine *	5.6.1	5-08-022
L-Lysine liquid	5.6.15	----
L-Lysine monohydrochloride *	5.6.14	5-19-118
L-Lysine solution *	5.6.15	----
L-Lysine sulfate with fermentation product	5.4.53	---
L-Proline *	5.6.9	5-32-190
L-Tartaric acid HO ₂ CCH(OH)CH(OH)CO ₂ H *	8.62	8-19-658
L-Threonine *	5.6.6	5-08-092
L-Tryptophan *	5.6.7	5-18-776
Lactic acid, DL-	8.27	8-26-409
<i>Lactobacillus acidophilus</i> fermentation product dehydrated *	5.4.22	5-06-153
<i>Lactobacillus acidophilus</i> fermentation product liquid *	5.4.23	5-06-159
<i>Lactobacillus buchneri</i> fermentation product dehydrated	5.4.57	----
<i>Lactobacillus bulgaricus</i> fermentation product dehydrated *	5.4.24	5-06-154
<i>Lactobacillus bulgaricus</i> fermentation product liquid *	5.4.25	5-06-160
Lactose C ₁₂ H ₂₂ O ₁₁ *	4.6.6	4-02-486
Lard water dehydrated	5.1.21	5-00-393
Lignin sulfonate condensed *	8.29	8-29-786
Lignin sulfonate dehydrated *	8.30	8-02-627
Limestone, dolomitic, ground *	6.97	6-02-633
Limestone ground *	6.41	6-02-632
Linseed meal	5.3.14	5-30-287
Linseed meal	5.3.15	5-30-288
Linseed oil	4.5.21	---
Linseed oilcake meal	5.3.15	5-30-288
Linseed oilcake meal	5.3.14	5-30-287

* International Feed Name

** International Feed Number

August 30, 2005

SCHEDULE IV - PART I

INDEX

Ingredient Name	Item	IFN **
Liquid <i>Aspergillus niger</i> fermentation product	5.4.3	5-06-157
Liquid <i>Aspergillus niger</i> fermentation solubles	5.4.62	-----
Liquid <i>Aspergillus oryzae</i> fermentation product	5.4.8	5-06-158
Liquid <i>Bacillus amyloliquefaciens</i> fermentation product	5.4.58	-----
Liquid <i>Bacillus amyloliquefaciens</i> fermentation solubles	5.4.52	-----
Liquid <i>Bacillus licheniformis</i> fermentation solubles	5.4.59	-----
Liquid <i>Bacillus subtilis</i> fermentation product	5.4.15	5-06-156
Liquid <i>Bacillus subtilis</i> fermentation solubles	5.4.61	-----
Liquid <i>Enterococcus faecium</i> fermentation product	5.4.36	5-06-161
Liquid <i>Lactobacillus acidophilus</i> fermentation product	5.4.23	5-06-159
Liquid <i>Lactobacillus bulgaricus</i> fermentation product	5.4.25	5-06-160
Liquid Saccharomyces fermentation extract	5.4.51	-----
Liquid <i>Streptococcus faecium</i> fermentation product	5.4.36	5-06-161
Liquid <i>Enterococcus faecium</i> fermentation product	5.4.46	-----
Liquid <i>Trichoderma longibrachiatum</i> fermentation solubles	5.4.60	-----
Liquid whey	4.6.18	4-08-134
Locust bean gum *	8.88	8-07-250
Lysine, L-	5.6.1	5-08-022
Lysine monohydrochloride, L-	5.6.14	5-19-118
Magnesium-aluminum-iron silicate	8.66	8-08-993
Magnesium carbonate anhydrous $MgCO_3 \cdot Mg(OH)_2$ *	6.42	6-02-754
Magnesium carbonate hydroxide	6.43	6-29-798
Magnesium carbonate pentahydrate $MgCO_3 \cdot Mg(OH)_2 \cdot 5H_2O$ *	6.43	6-29-798
Magnesium carbonate trihydrate $MgCO_3 \cdot Mg(OH)_2 \cdot 3H_2O$ *	6.44	6-08-797
Magnesium chloride *	6.45	6-20-872
Magnesium gluconate *	6.99	6-30-384
Magnesium hydrate	6.100	6-26-012
Magnesium hydroxide *	6.100	6-26-012
Magnesium limestone	6.97	6-02-633
Magnesium oxide MgO *	6.46	6-02-756
Magnesium phosphate *	6.47	6-23-294
Magnesium stearate $Mg(C_{18}H_{35}O_2)_2$ *	8.31	8-17-908
Magnesium sulfate anhydrous $MgSO_4$ *	6.50	6-26-134
Magnesium sulfate heptahydrate $MgSO_4 \cdot 7H_2O$ *	6.51	6-02-758
Magnesium-mica	6.69	6-08-999
Maize and cob meal	4.2.4	4-02-849
Maize bran *	4.2.3	4-02-841
Maize cob, dehydrated, fine ground *	1.9	1-02-781
Maize cob fractions	1.10	1-02-779
Maize cob fractions, screened *	1.10	1-02-779
Maize dent white grain *	4.1.4	4-02-928
Maize dent yellow grain *	4.1.5	4-02-935
Maize distillers grains dehydrated *	5.5.8	5-02-842
Maize distillers grains with solubles dehydrated *	5.5.9	5-02-843
Maize distillers solubles condensed *	5.5.10	5-12-211
Maize distillers solubles dehydrated *	5.5.11	5-02-844
Maize ears ground *	4.2.4	4-02-849
Maize endosperm oil *	4.5.5	4-02-852
Maize extractives condensed fermented with germ meal and bran dehydrated*	5.8.2	5-09-333
Maize extractives fermented condensed *	4.2.9	4-02-890
Maize feed meal	4.2.6	4-02-880
Maize flour *	4.2.5	4-08-024
Maize germs meal dry milled mechanical extracted *	5.3.7	5-02-894
Maize gluten feed	5.3.9	5-02-903
Maize gluten meal *	5.3.8	5-02-900
Maize gluten with bran *	5.3.9	5-02-903
Maize grain *	4.1.6	4-02-879
Maize grain fines *	4.2.6	4-02-880
Maize grain flaked *	4.2.24	4-02-859
Maize grain kibbled *	4.2.20	4-02-866
Maize grain starch heat hydrolyzed *	4.6.10	4-08-023
Maize grits *	4.2.7	4-02-886
Maize grits by-product *	4.2.8	4-02-887
Maize kernels heat processed *	4.6.20	4-29-354
Maize oil	4.5.5	4-02-852
Maize opaque 2 grain (high lysine) *	4.1.7	4-11-445
Maize syrup *	4.6.11	4-20-104
Maize syrup dehydrated *	4.6.21	4-02-892
Maize syrup process residue *	4.6.12	4-04-893

* International Feed Name

** International Feed Number

August 30, 2005

SCHEDULE IV - PART I

INDEX

Ingredient Name	Item	IFN **
Maize syrup refinery insolubles	4.6.12	4-04-893
Maize zein *	5.3.40	----
Maize-cereals grains *	4.1.3	4-29-790
Malic acid *	8.124	----
Malt diastase	8.4	8-16-303
Malt extract syrup *	4.4.12	----
Malt sprouts	5.5.7	5-00-545
Malto dextrins	8.4	8-16-303
Malto dextrins	4.6.10	4-08-023
Manganese carbonate *	6.115	6-03-036
Manganese chloride	6.112	----
Manganous chloride tetrahydrate *	6.112	----
Manganous oxide MnO *	6.52	6-03-054
Manganous sulfate monohydrate $MnSO_4 \cdot H_2O$ *	6.55	6-26-136
Manganous sulfate pentahydrate $MnSO_4 \cdot 5H_2O$ *	6.56	6-28-109
Manganous sulfate tetrahydrate $MnSO_4 \cdot 4H_2O$ *	6.57	6-03-050
Manganous sulfate trihydrate $MnSO_4 \cdot 3H_2O$ *	6.119	----
Mannitol, D-	8.119	----
Marigold oil extract *	8.108	8-30-488
Meat and bone meal	5.1.7	5-00-388
Meat by-products	5.1.5	5-00-395
Meat meal	5.1.6	5-00-385
Menadiol diacetate	7.1.28	7-32-194
Menadione dimethylpyrimidinol bisulphite *	7.1.12	7-08-102
Menadione nicotinamide bisulfite *	7.1.29	----
Menadione sodium bisulphite *	7.1.13	7-03-077
Menadione sodium bisulphite complex *	7.1.14	7-03-078
Methionine, DL-	5.6.2	5-03-086
Methionine,DL,N-hydroxymethyl, dehydrated calcium salt	5.6.5	5-30-383
Methionine hydroxy analogue-DL	5.6.11	5-30-281
Methyl p-hydroxybenzoate	8.32	8-03-088
Methylparaben *	8.32	8-03-088
MHA	5.6.11	5-30-281
MHA on carrier	5.6.17	
MHB	5.6.11	5-30-281
MHB on carrier	5.6.17	
Milo	4.1.15	4-04-444
Mineral oil *	8.33	8-03-123
Mixed feed oats	4.1.10	4-06-175
Mixed tocopherols *	8.133	7-05-038
Modified wheat gluten	5.3.42	----
Molasses distillers condensed solubles	4.4.7	4-04-697
Molasses yeast condensed solubles	5.4.35	5-29-782
Mono and dicalcium phosphate	6.113	----
Mono- and diglycerides	8.34	8-07-251
Mono- and diglycerides of edible fats or oils *	8.34	8-07-251
Monoammonium phosphate	6.2	6-09-338
Monocalcium Dicalcium Phosphate *	6.113	----
Monocalcium phosphate	6.11	6-01-082
Monopotassium phosphate	6.105	6-18-673
Monosodium phosphate	6.74	6-04-288
Montmorillonite	8.89	8-09-364
Montmorillonite clays *	8.89	8-09-364
n-Propyl alcohol *	8.42	8-15-858
N-Hydroxymethyl-DL-methionine dehydrated calcium salt *	5.6.5	5-30-383
NaCl	6.68	6-04-152
Niacin *	7.1.15	7-03-219
Niacinamide *	7.1.16	7-03-215
Nicotinamide	7.1.16	7-03-215
Nicotinic acid	7.1.15	7-03-219
No. 1 Feed screenings	4.3.1	4-02-154
No. 1 Feed screenings pulse grains	4.3.5	----
No. 2 Feed screenings	4.3.2	4-02-155
No. 2 Feed screenings pulse grains	4.3.6	
Oat feed	1.12	1-03-332
Oat mill by-product	1.12	1-03-332
Oats cereal by-product less than 4% fibre	4.2.26	----
Oats grain *	4.1.9	4-03-309
Oats groats *	4.2.10	4-03-331

* International Feed Name

** International Feed Number

August 30, 2005

SCHEDULE IV - PART I

INDEX

Ingredient Name	Item	IFN **
Oats groats by-product less than 22 per cent fibre *	1.12	1-03-332
Oats hulls *	1.11	1-03-281
Oats wild-oats-cereals grain *	4.1.10	4-06-175
Oats-cereals grain *	4.1.8	4-29-791
Octadec-9-enoic acid *	8.91	8-18-677
Octadecanoic acid *	8.90	8-18-676
Oil of <i>Glycine max</i> (L) Merr.	4.5.6	4-07-983
Oil of soya	4.5.6	4-07-983
Oleic acid	8.91	8-18-677
Orthophosphoric acid	6.60	6-01-780
Orthophosphoric acid on carrier	6.114	-- -- --
Oyster shell flour	6.58	6-03-481
Oyster shells ground *	6.58	6-03-481
p-Aminobenzoic acid	7.1.1	7-03-513
Palmitic acid	8.136	-- -- --
Palm kernels expeller	5.3.35	5-03-487
Palm kernels with coats, mechanical extracted	5.3.35	5-03-487
Palm kernels with coats oil residues, machanical extracted *	5.3.35	5-03-487
Palm meal	5.3.35	5-03-487
Partially Hydrogenated Animal Fat	4.5.18	-- -- --
Pea, field, protein product, spray dehydrated	5.3.16	5-17-726
Pea field seeds *	5.3.17	5-08-481
Pea meal *	5.3.44	-- -- --
Pea protein	5.3.16	5-17-726
Peanut hulls	1.13	1-08-028
Peanut meal	5.3.18	5-03-649
Peanut meal	5.3.19	5-03-650
Peanut pods *	1.13	1-08-028
Peanut seed coats *	1.14	1-03-631
Peanut seeds without coats meal mechanical extracted *	5.3.18	5-03-649
Peanut seeds without coats meal solvent extracted *	5.3.19	5-03-650
Peanut skins	1.14	1-03-631
Peat moss, Sedge	8.143	-----
PEG 400 mono and di-oleate	8.36	8-09-348
Pelleted Pulse Seeds	5.3.48	-----
Pelleted Whole Seaweed *	8.137	-----
<i>Penicillium</i> fermentation presscake meal extracted *	5.4.26	5-06-163
<i>Penicillium</i> fermentation solids with solubles liquid *	5.4.27	5-06-172
<i>Penicillium</i> fermentation solubles extracted dehydrated *	5.4.28	5-06-166
<i>Penicillium</i> fermentation solubles meal extracted dehydrated *	5.4.29	5-06-169
Perlite *	8.35	8-26-242
Phosphate defluorinated *	6.59	6-01-780
Phosphoric acid H ₃ PO ₄ *	6.60	6-03-707
Phosphoric acid on carrier *	6.114	-- -- --
Plain beet pulp	4.4.9	4-00-671
Plain dried beet pulp	4.4.2	4-00-669
Polydimethylsiloxane *	8.128	-- -- --
Polyethylene glycol 400 mono and di-oleate *	8.36	8-09-348
Polyethylene glycol stearate	8.129	-- -- --
Polyoxyethylene glycol 400 mono-and di-oleates *	8.92	8-08-053
Polyoxyethylene stearate *	8.129	-- -- --
Polysorbate 60 *	8.37	8-08-032
Polysorbate 80 *	8.38	8-08-031
Polyvinylpyrrolidone *	8.39	8-16-023
Potassium and magnesium sulfate K ₂ SO ₄ .2MgSO ₄ *	6.65	6-06-177
Potassium bicarbonate *	6.61	6-09-337
Potassium carbonate K ₂ CO ₃ *	6.122	6-09-336
Potassium chloride KCl *	6.62	6-03-755
Potassium iodate KIO ₃ *	6.63	6-08-072
Potassium iodide KI *	6.64	6-03-759
Potassium phosphate dibasic K ₂ HPO ₄ *	6.104	6-18-673
Potassium phosphate monobasic KH ₂ HPO ₄ *	6.105	6-18-673
Potassium sodium copper chlorophyllin *	8.93	8-32-163
Potassium sorbate *	8.40	8-03-761
Potassium sulfate K ₂ SO ₄ *	6.66	6-08-098
Potato process residue dehydrated *	4.6.13	4-03-775
Potato Protein	5.8.4	
Potato Protein Isolate*	5.8.4	
Potatoes, cull and/or sound fresh	4.6.36	-----

* International Feed Name

** International Feed Number

August 30, 2005

SCHEDULE IV - PART I

INDEX

Ingredient Name	Item	IFN **
Potatoes process residue heat treated, wet	4.6.38	-----
Potatoes process residue raw, wet	4.6.37	-----
Poultry and Blood Digest *	5.1.34	-----
Poultry by-product meal rendered *	5.1.11	5-03-798
Poultry by-products	5.1.10	5-03-800
Poultry by-products fresh *	5.1.10	5-03-800
Poultry feathers meal hydrolyzed *	5.1.12	5-03-795
Poultry residue	5.1.10	5-03-800
Powdered egg	5.1.13	5-01-214
Processed Cassava Root *	4.6.32	4-18-896
Proline, L-	5.6.9	5-32-190
Propionic acid CH ₃ CH ₂ COOH *	8.41	8-03-807
Propyl alcohol, n-	8.42	8-15-858
Propyl gallate *	8.44	8-03-808
Propyl p-hydroxybenzoate	8.45	8-03-810
Propylene glycol *	8.43	8-03-809
Propylene glycol mono-and di-esters of fats and fatty acids *	8.94	8-18-678
Propylparaben *	8.45	8-03-810
Pulse grain screenings, grade 1	4.3.5	-----
Pulse grain screenings, grade 2	4.3.6	-----
Pulse grain screenings, refuse	4.3.7	-----
Pulse grain screenings, uncleaned	4.3.8	-----
Pulse seeds	5.3.48	-----
Pulverized limestone	6.41	6-02-632
Pyridoxine hydrochloride *	7.1.17	7-03-822
Red Dye #40	8.123	-----
Refined Bleached Shellac	8.140	-----
Refuse screenings	4.3.3	4-02-151
Refuse screenings, pulse grains	4.3.7	-----
Resin guaiac *	8.95	8-03-909
<i>Rhizopus arrhizus</i> fermentation extract dehydrated *	5.4.50	-----
<i>Rhizopus oryzae</i> fermentation extract dehydrated *	5.4.30	5-30-481
Riboflavin *	7.1.18	7-03-920
Riboflavin-5'-phosphate sodium *	7.1.19	7-17-901
Rice bran	4.2.11	4-03-928
Rice bran oil	5.5.22	-----
Rice bran, solvent extract	4.2.19	4-03-930
Rice bran with germs *	4.2.11	4-03-928
Rice bran with germs, meal, solvent extracted *	4.2.19	4-03-930
Rice grain *	4.1.11	4-03-939
Rice groats, polished, broken *	4.2.21	4-03-932
Rice hulls *	1.15	1-08-075
Rock phosphate curacao ground *	6.67	6-05-586
Rye distillers grains dehydrated *	5.5.12	5-04-023
Rye distillers grains with solubles dehydrated *	5.5.13	5-04-024
Rye distillers solubles condensed *	5.5.14	5-12-212
Rye distillers solubles dehydrated *	5.5.15	5-04-026
Rye flour *	4.2.25	-----
Rye flour by-product less than 8.5 percent fibre *	4.2.12	4-04-031
Rye grain *	4.1.13	4-04-047
Rye malt sprouts dehydrated *	5.5.16	5-04-048
Rye middlings	4.2.12	4-04-031
Rye mixed grain	4.1.12	4-29-792
Rye-cereals grain *	4.1.12	4-29-792
Saccharin sodium *	8.46	8-04-103
Saccharomyces cerevisiae Fermentation Extract, dehydrated	5.4.63	-----
Saccharomyces cerevisiae Fermentation Solubles extracted, dehydrated	5.4.56	-----
Saccharomyces Fermentation Extract, liquid *	5.4.51	-----
Safflower meal	5.3.20	5-04-109
Safflower meal	5.3.21	5-04-110
Safflower seeds meal mechanical extracted *	5.3.20	5-04-109
Safflower seeds meal solvent extracted *	5.3.21	5-04-110
Salt *	6.68	6-04-152
Seaweed extract liquid *	8.96	8-30-459
Seaweed extract powder	8.139	-----
Seaweed meal whole dehydrated *	8.47	1-08-073
Sedge Peat Moss	8.143	-----
Sepiolite *	8.97	-----
Shrimp meal	5.2.10	5-04-226

* International Feed Name

** International Feed Number

August 30, 2005

SCHEDULE IV - PART I

INDEX

Ingredient Name	Item	IFN **
Shrimp process residue meal *	5.2.10	5-04-226
Silica gel *	8.48	8-15-816
Silicon dioxide SiO ₂ *	8.49	8-08-034
Smectite-vermiculite *	6.69	6-08-999
Snack food waste dehydrated *	4.6.22	4-12-175
Sodium acetate *	8.50	8-15-817
Sodium acid pyrophosphate *	6.70	6-16-830
Sodium alginate *	8.98	8-20-961
Sodium aluminosilicate *	8.51	8-08-101
Sodium ascorbate *	7.1.23	7-00-433
Sodium benzoate *	8.52	8-04-271
Sodium bicarbonate NaHCO ₃ *	6.71	6-04-272
Sodium calcium aluminosilicate hydrated *	8.99	8-32-165
Sodium carbonate *	6.72	6-12-316
Sodium carboxymethylcellulose *	8.53	8-08-100
Sodium caseinate *	5.1.19	5-19-650
Sodium cellulose glycolate	8.53	8-08-100
Sodium citrate *	8.54	8-19-656
Sodium copper chlorophyllin *	8.100	8-32-164
Sodium diacetate CH ₃ COONa.CH ₃ COOH *	8.55	8-15-815
Sodium erythorbate *	8.126	---
Sodium ferrocyanide *	8.56	8-05-697
Sodium hydroxide solution NaOH *	8.57	8-19-657
Sodium iodine *	6.116	6-04-279
Sodium isoascorbate	8.126	---
Sodium methionate DL-, aqueous solution	5.6.10	---
Sodium molybdate *	6.106	6-19-300
Sodium phosphate dibasic Na ₂ PHO ₄ *	6.73	6-04-286
Sodium phosphate monobasic NaH ₂ PO ₄ *	6.74	6-04-288
Sodium phosphate tribasic Na ₃ PO ₄ *	6.75	6-20-871
Sodium polymannuronate	8.98	8-20-961
Sodium propionate CH ₃ CH ₂ COONa *	8.58	8-04-289
Sodium salts of fatty acids *	8.101	8-18-679
Sodium selenate Na ₂ SeO ₄ *	6.76	6-26-014
Sodium selenite Na ₂ SeO ₃ *	6.77	6-26-013
Sodium sesquicarbonate *	6.78	6-17-895
Sodium sulfate anhydrous Na ₂ SO ₄ *	6.79	6-16-022
Sodium sulfate decahydrate Na ₂ SO ₄ .10H ₂ O *	6.80	6-04-291
Sodium sulfite	8.102	8-26-307
Sodium sulfite anhydrous *	8.102	8-26-307
Sodium tripolyphosphate Na ₅ P ₃ O ₁₀ *	6.81	6-08-076
Sorbic acid *	8.59	8-04-297
Sorbitan monostearate *	8.120	---
Sorbitol *	8.60	8-16-024
Sorghum distillers grains dehydrated *	5.5.17	5-04-374
Sorghum distillers grains with solubles dehydrated *	5.5.18	5-04-375
Sorghum distillers solubles condensed *	5.5.19	5-12-231
Sorghum distillers solubles dehydrated *	5.5.20	5-04-376
Sorghum grain *	4.1.14	4-04-383
Sorghum milo grain *	4.1.15	4-04-444
Soy flour	5.3.23	5-04-593
Soy flour	5.3.22	5-12-177
Soy lecithin	4.5.7	4-04-562
Soy oil	4.5.6	4-07-983
Soy protein concentrate	5.3.24	5-08-038
Soy protein isolate	5.3.25	5-24-811
Soya oil	4.5.6	4-07-983
Soybean feed	5.3.45	-----
Soybean feed, solvent extracted *	5.3.45	-----
Soybean flour by-product *	4.2.13	4-04-594
Soybean flour mechanical extracted *	5.3.22	5-12-177
Soybean flour solvent extracted *	5.3.23	5-04-593
Soybean hulls	1.16	1-04-560
Soybean lecithin *	4.5.7	4-04-562
Soybean meal	5.3.27	5-04-604
Soybean mill feed	4.2.13	4-04-594
Soybean protein concentrate *	5.3.24	5-08-038
Soybean protein isolate *	5.3.25	5-24-811
Soybean seed coats *	1.16	1-04-560

* International Feed Name

** International Feed Number

August 30, 2005

SCHEDULE IV - PART I

INDEX

Ingredient Name	Item	IFN **
Soybean seeds extruded ground *	5.3.36	5-14-005
Soybean seeds heat processed *	5.3.26	5-04-597
Soybean seeds meal mechanically extracted	5.3.47	-----
Soybean seeds meal solvent extracted *	5.3.27	5-04-604
Soybean seeds oil *	4.5.6	4-07-983
Soybean seeds without hulls meal solvent extracted *	5.3.29	5-04-612
Soyflour chemically and physically modified *	5.3.28	5-19-651
Spawn powder	5.2.15	-- -- --
Sphagnum peat moss *	8.103	8-18-980
Spray dried animal blood cells	5.1.37	
Spray dried whole egg	5.1.13	5-01-214
Stainless steel grits *	8.104	8-30-444
Stearic acid	8.90	8-18-676
Sterculia gum *	8.105	8-18-680
<i>Enterococcus faecium</i> fermentation product dehydrated *	5.4.31	5-06-155
<i>Enterococcus faecium</i> fermentation product liquid *	5.4.36	5-06-161
<i>Streptomyces</i> fermentation presscake meal extracted *	5.4.37	5-06-164
<i>Streptomyces</i> fermentation solids with solubles liquid *	5.4.38	5-06-173
<i>Streptomyces</i> fermentation solubles dehydrated *	5.4.39	5-29-784
<i>Streptomyces</i> fermentation solubles extracted dehydrated *	5.4.40	5-06-167
<i>Streptomyces</i> fermentation solubles meal extracted dehydrated *	5.4.41	5-06-170
Sucrose	4.6.17	4-04-701
Sucrose	4.6.14	4-06-176
Sugar foods by-product	4.6.23	4-20-865
Sugar foods process residue *	4.6.23	4-20-865
Sugarcane molasses *	4.4.6	4-13-251
Sugarcane molasses, com cob fractions dehydrated added *	4.4.10	4-30-479
Sugarcane molasses distillers solubles condensed *	4.4.7	4-04-697
Sugarcane molasses, soybean mill run dehydrated added *	4.4.8	4-16-831
Sugarcane molasses, sunflower hull dehydrated added *	4.4.11	-- -- --
Sugarcane sugar *	4.6.17	4-04-701
Sugarcane-beet sugar molasses yeast solubles condensed *	5.4.35	5-29-782
Sulfur *	6.82	6-04-705
Sulfuric acid solution H ₂ SO ₄ *	6.83	6-29-778
Sun-cured alfalfa meal	1.2	1-00-111
Sunflower hulls *	1.17	1-04-720
Sunflower meal	5.3.31	5-30-032
Sunflower meal	5.3.30	5-27-477
Sunflower seeds meal mechanical extracted *	5.3.30	5-27-477
Sunflower seeds meal solvent extracted *	5.3.31	5-30-032
Sunflower seeds without hulls meal mechanical extracted *	5.3.32	5-30-033
Sunflower seeds without hulls meal solvent extracted *	5.3.33	5-30-034
Sunset Yellow FCF dye *	8.106	-- -- --
Sunset Yellow FCF lake *	8.107	-- -- --
Sweet lupine meal	5.3.38	5-30-461
Sweet lupine seeds ground *	5.3.39	5-17-049
Sweet lupine seeds solvent extracted *	5.3.38	5-30-461
Sweet lupine seeds without hulls, ground *	5.3.37	5-30-462
Swine pancreas extract dehydrated *	5.1.27	-- -- --
Sweet potatoes, fresh	4.6.34	-----
<i>Tagetes erecta</i> L. oil extract	8.108	8-30-488
Talc *	8.109	8-16-378
Tapioca	4.6.32	4-18-896
Tartrazine dye *	8.110	8-30-392
Tartrazine Lake *	8.63	8-15-912
Taurine *	5.6.12	-- -- --
Thaumatococin *	8.111	8-18-682
Thiamine hydrochloride *	7.1.20	7-04-828
Thiamine mononitrate *	7.1.21	7-04-829
Threonine, L-	5.6.6	5-08-092
Timothy-Alfalfa cubes	1.28	
Timothy-Alfalfa cubes, dehydrated	1.28	
Tomato pomace dehydrated *	5.8.3	5-05-041
Triacetin	8.23	8-19-675
Tricalcium citrate	8.134	-----
Tricalcium phosphate	6.12	6-01-084
<i>Trichoderma longibrachiatum</i> fermentation extract condensed *	5.4.42	5-32-159
<i>Trichoderma longibrachiatum</i> fermentation extract dehydrated *	5.4.43	5-32-160
<i>Trichoderma longibrachiatum</i> fermentation product, dehydrated	5.4.64	-----

* International Feed Name

** International Feed Number

August 30, 2005

SCHEDULE IV - PART I

INDEX

Ingredient Name	Item	IFN **
<i>Enterococcus faecium</i> fermentation product liquid *	5.4.46	---
<i>Trichoderma longibrachiatum</i> fermentation solubles condensed*	5.4.55	---
<i>Trichoderma longibrachiatum</i> fermentation solubles dehydrated*	5.4.54	---
<i>Trichoderma longibrachiatum</i> fermentation solubles, liquid	5.4.60	-----
<i>Trichoderma reesei</i> fermentation extract condensed	5.4.42	5-32-159
<i>Trichoderma reesei</i> fermentation extract dehydrated	5.4.43	5-32-160
<i>Trichoderma viridae</i> fermentation extract dehydrated *	5.4.44	---
<i>Trichoderma reesei</i> fermentation solubles condensed	5.4.55	---
<i>Trichoderma reesei</i> fermentation solubles dehydrated	5.4.54	---
Triethyl citrate *	8.122	---
Triticale grain *	4.1.21	---
Tryptophan, DL-	5.6.8	5-08-093
Tryptophan, L-	5.6.7	5-18-776
Tumeric, tubers, dehydrated *	8.64	8-29-671
Tween 60	8.37	8-08-032
Tween 80	8.38	8-08-031
Ultramarine blue *	8.112	---
Uncleaned screenings	4.3.4	4-02-153
Uncleaned screenings, pulse grains	4.3.8	----
Urea	5.7.3	5-05-070
Urea 45 percent nitrogen 281 percent protein *	5.7.3	5-05-070
Vegetable oil *	4.5.8	4-05-077
Vegetable process residue wet	4.6.35	-----
Vermiculite *	8.113	8-18-981
Verxite, granules *	8.66	8-08-993
Vitamin A*	7.1.31	7-05-142
Vitamin B ₁₂ *	7.1.22	7-05-146
Vitamin K ₃ *	7.1.28	7-32-194
Walnut, persian, shells, ground *	1.19	1-18-668
Walnut shell meal	1.19	1-18-668
Wax-free Bleached Shellac	8.140	-----
Wet apple pomace	4.6.28	-----
Wet heat treated potato process residue	4.6.38	-----
Wet raw potato process residue	4.6.37	-----
Wet vegetable process residue	4.6.35	-----
Wheat bran *	4.2.14	4-05-190
Wheat distillers grains dehydrated *	5.5.21	5-05-193
Wheat distillers grains with solubles dehydrated *	5.5.22	5-05-194
Wheat distillers solubles condensed *	5.5.23	5-12-213
Wheat distillers solubles dehydrated *	5.5.24	5-05-195
Wheat flour by-product less than 7 percent fibre *	4.2.16	4-05-201
Wheat flour by-product less than 9.5 percent fibre *	4.2.17	4-05-205
Wheat flour less than 1.5 percent fibre *	4.2.15	4-05-199
Wheat germ ground *	5.3.34	5-05-218
Wheat germ oil	4.5.20	-----
Wheat gluten *	5.3.41	-----
Wheat gluten protein modified *	5.3.42	-----
Wheat grain *	4.1.17	4-05-211
Wheat malt sprouts dehydrated *	5.5.25	5-29-796
Wheat middlings	4.2.16	4-05-201
Wheat mill run	4.2.18	4-05-206
Wheat mill run less than 9.5 percent crude fibre *	4.2.18	4-05-206
Wheat shorts	4.2.17	4-05-205
Wheat starch *	4.6.24	4-20-951
Wheat-cereals grain *	4.1.16	4-29-793
Whey	4.6.18	4-08-134
White beans	5.3.1	5-29-785
Whole corn heat processed	4.6.20	4-29-354
Whole cottonseed	5.3.10	5-01-614
Wood charcoal *	8.114	8-30-460
Xanthan gum *	8.67	8-15-818
Yeast autolysate dehydrated *	7.2.7	7-30-385
Yeast brewers dehydrated *	7.2.2	7-05-527
Yeast, brewers liquid *	7.2.9	7-20-878
Yeast culture dehydrated *	7.2.3	7-05-520
Yeast extract dehydrated	5.4.63	-----
Yeast irradiated dehydrated *	7.2.4	7-05-529
Yeast primary dehydrated *	7.2.5	7-05-533
Yeast torula dehydrated *	7.2.6	7-05-534

* International Feed Name

** International Feed Number

August 30, 2005

SCHEDULE IV - PART I

INDEX

Ingredient Name	Item	IFN **
Yellow prussiate of soda	8.56	8-05-697
Yucca Mohave Pulp, dehydrated*	1.24	-----
Yucca Schidigera Pulp, dehydrated	1.24	-----
Zinc oxide anhydrous ZnO *	6.85	6-05-553
Zinc sulfate heptahydrate $ZnSO_4 \cdot 7H_2O$ *	6.88	6-20-729
Zinc sulfate monohydrate $ZnSO_4 \cdot H_2O$ *	6.89	6-05-555

* International Feed Name

** International Feed Number

SCHEDULE IV - PART II

INDEX

INGREDIENT NAME	ITEM	IFN **
Acid chlorinated canola meal *	5.7	-----
Acid chlorinated soybean meal *	5.8	-----
Animal sterol irradiated *	7.6	7-00-408
Animal bone charcoal, spent *	6.3	6-00-404
Astaxanthin *	8.5	8-30-434
Bacillus culture dehydrated *	8.6	8-19-119
Basic copper chloride *	6.4	-- --
Beet sugar, separator byproduct, condensed *	5.4	5-32-051
Beta-apo-8'-carotenoic acid ethyl ester *	8.2	8-16-287
Beta-carotene *	7.2	7-01-134
Bifidobacteria Culture Dehydrated *	8.65	-----
Bone charcoal, spent	6.3	6-00-404
Calcium amino acid Chelate *	6.6	6-20-981
Calcium Proteinates *	6.31	6-16-833
Calcium salts of fatty acids *	4.2	-- --
Calciferol, 25-hydroxy vitamin D3	7.10	-----
Canthaxanthin *	8.3	8-16-286
Carrageenan	8.70	-----
Chlorinated canola meal	5.7	-----
Chlorinated soybean meal	5.8	-----
Chromium enriched yeast	6.38	-----
Chromium yeast dehydrated *	6.38	-----
Coated ascorbic acid *	7.7	-- --
Coated menadione sodium bisulphite	7.8	-----
Coated paper tracer	8.68	-----
Cobalt amino acid chelate *	6.7	6-20-982
Cobalt choline citrate	6.13	6-20-869
Cobalt choline citrate complex *	6.13	6-20-869
Cobalt polysaccharide complex *	6.14	6-19-652
Cobalt proteinates *	6.32	6-26-151
Coded paper tracer*	8.67	-----
Coded paper tracer, coated*	8.68	-----
Condensed separator byproduct	5.4	5-32-051
Copper amino acid chelate *	6.8	6-20-983
Copper amino acid complex	6.40	-----
Copper choline citrate	6.15	6-20-868
Copper choline citrate complex *	6.15	6-20-868
Copper lysine complex *	6.19	-----
Copper lysine sulfate	6.19	-----
Copper polysaccharide complex *	6.18	6-09-822
Copper proteinates *	6.33	6-09-896
Corn syrup process residue with filter*	4.6	-----
Corn syrup refinery insolubles	4.6	-----
D-activated animal sterol	7.6	7-00-408
Dried Bifidobacteria Culture	8.65	-----
Dried Haematococcus algae meal	8.63	-----
Dried lactococcus culture	8.64	-----
Dried Kluyveromyces culture	8.71	-----
Dried porcine solubles	5.6	-----
Dried <i>Propionibacterium jensenii</i> culture	8.57	-- --
Dried Yucca Schidigera	8.60	-----
Dry infant formula product	5.5	-----
Dry food waste	4.7	-----
Enterococcus culture dehydrated *	8.7	8-19-120
Ethyl-beta-apo-8' carotenoid	8.2	8-16-287
Ferric choline citrate	6.17	6-20-867
Ferric choline citrate complex *	6.17	6-20-867
Fresh ground feathers	5.3	-- --
Food waste, dry, mixed*	4.7	-----
Food waste, heat-treated, dehydrated *	4.5	-----
Ginseng Root - Panax quinquefolius, dried*	8.66	-----
Haematococcus algae meal, comminuted, dehydrated *	8.63	-----
25-Hydroxycholecalciferol	7.10	-----
Infant formula product, dry *	5.5	-----
Iron amino acid chelate *	6.9	6-20-984
Iron glycine complex	6.44	-----
Iron glycine sulfate	6.44	-----
Iron methionine complex *	6.25	6-16-294

* International Feed Name

** International Feed Number

August 30, 2005

SCHEDULE IV - PART II

INDEX

INGREDIENT NAME	ITEM	IFN **
Iron methionine sulphate	6.25	6-16-294
Iron polysaccharide complex *	6.18	6-09-898
Iron proteinate *	6.34	6-26-150
Kappa-carrageenan	8.70	-----
Kluyveromyces culture dehydrated	8.71	-----
Lactobacillus culture dehydrated *	8.9	8-06-174
Lactococcus culture dehydrated *	8.64	-----
Maize syrup process residue with filter	4.6	
Maize syrup refinery insolubles	4.6	
Magnesium amino acid chelate *	6.10	6-20-985
Magnesium amino acid complex *	6.21	6-32-055
Magnesium aspartate hydrochloride *	6.5	-----
Magnesium polysaccharide complex *	6.22	6-19-653
Magnesium proteinate *	6.35	6-26-149
Manganese amino acid chelate *	6.11	6-20-986
Manganese amino acid complex	6.41	-----
Manganese choline citrate	6.23	6-32-191
Manganese choline citrate complex *	6.23	6-32-191
Manganese methionine complex *	6.26	-----
Manganese methionine sulfate	6.26	-----
Manganese polysaccharide complex *	6.24	6-19-654
Manganese proteinate *	6.36	6-16-831
Modified soybean meal *	5.9	-----
North American Ginseng Root	8.66	-----
Pediococcus culture dehydrated *	8.10	8-18-667
Phaffia rhodozyma, dehydrated *	8.11	18-32-187
Phaffia rhodozyma yeast	8.11	18-32-187
Phytic acid*	8.69	-----
Plantago seed husk *	8.55	1-32-187
Poly(2-vinylpyridine-co-styrene) *	8.56	-----
Polymethylolcarbamide *	8.4	8-16-584
Potassium amino acid complex *	6.31	6-32-161
Porcine solubles,dried *	5.6	-----
Poultry feather meal fresh *	5.3	-----
Propionibacterium jensenii culture, dehydrated *	8.57	-----
Psyllium seed husk	8.55	1-32-187
Rice bran, stabilized *	4.4	-----
Saccharomyces active dehydrated	8.13	-----
Selenium enriched yeast	6.2	-----
Selenium Proteinate	6.39	-----
Seleno yeast dehydrated *	6.2	-----
Sodium carbonate lignin dehydrated *	8.58	-----
Soybean meal, chemically and/or physically modified	5.9	-----
Stabilized rice bran	4.4	-----
Streptococcus culture dehydrated *	8.12	8-16-285
Tall oil fatty acid	4.3	4-16-352
Tree (Tall) oil fatty acid *	4.3	4-16-352
Tribasic copper chloride	6.4	-----
Vitamin D ₃ *	7.4	7-05-699
Vitamin E *	7.5	7-05-150
Vitamin E acetate *	7.9	-----
Vitamin E oil	7.9	-----
Wood pulp	8.14	-----
Yeast active dehydrated *	8.13	7-05-524
Yucca Mohave, extract*	8.61	-----
Yucca Mohave, sap*	8.62	-----
Yucca Schidigera extract *	8.61	-----
Yucca Schidigera Powder *	8.60	-----
Yucca Schidigera sap *	8.62	-----
Zeolite ore *	8.59	-----
Zinc amino acid chelate *	6.12	6-20-987
Zinc amino acid complex	6.42	-----
Zinc choline citrate	6.29	6-32-192
Zinc choline citrate complex *	6.29	6-32-192
Zinc glycine complex	6.43	-----
Zinc lysine complex *	6.20	-----
Zinc lysine sulfate	6.43	-----
Zinc glycine sulfate	6.20	-----

* International Feed Name

** International Feed Number

August 30, 2005

SCHEDULE IV - PART II

INDEX

INGREDIENT NAME	ITEM	IFN **
Zinc methionine complex *	6.28	6-16-293
Zinc methionine sulfate	6.28	6-16-293
Zinc polysaccharide complex *	6.30	6-09-899
Zinc proteinate *	6.37	6-09-897

* *International Feed Name*

** *International Feed Number*

August 30, 2005

SCHEDULE V

PART I

Column I International Feed Name	Column II Common Name(s)
1.1 Acetaldehyde	Ethanal
1.2 Acetoin	Acetyl methyl carbinol
1.3 2'-Acetonaphthone	b-Naphthylmethyl ketone, Methyl b-naphtyl ketone
1.4 Acetophenone	Methyl phenyl ketone
1.5 2-Acetylpyridine	Methyl-2-pyridyl-ketone
1.6 2-Acetylthiazole	
1.7 Allyl-3-cyclohexyl propionate	Allyl cyclohexane propionate
1.8 Allyl hexanoate	Allyl caproate, Allyl capronate, 2-Propenyl n-hexanoate
1.9 Allyl phenoxycetate	Acetate PA
1.10 trans-Anethole	
1.11 Anisaldehyde	Anisic aldehyde, Aubepine
1.12 Anise, oil	<i>Illicium verum</i> H. oil
1.13 Anise seeds	Aniseed, <i>Pimpinella anisum</i> L. seeds
1.14 Anisyl acetate	p-Methoxybenzyl acetate
1.15 Apple, wildcrab, peelings, extract, condensed	Apple extract, Apple flavor isolates
1.16 Alfalfa extract	<i>Medicago sativa</i> L. extract, Lucerne extract
1.17 Angelica root powder	Angelica root, <i>Angelica archangelica</i> L. root dehydrated ground
1.18 Anisyl alcohol	p-Methoxybenzyl alcohol
1.19 Anisyl formate	p-Methoxybenzyl formate
1.20 Apple essence	
1.21 Apple juice concentrate	
2.1 Balsam, Peru, bark extract	Peru Balsam extract, <i>Myroxylon pereira</i> extract
2.2 Balsam, Peru, oil	<i>Myroxylon pereira</i> oil
2.3 Benzaldehyde, free from chlorine	Benzoic Aldehyde
2.4 Benzyl acetate	
2.5 Benzyl alcohol	Phenyl carbinol
2.6 Benzyl benzoate	
2.7 Benzyl isovalerate	Benzyl 3-methyl butyrate
2.8 Benzyl phenyl acetate	Benzyl alpha toluate
2.9 Benzyl propionate	
2.10 beta gamma Hexenol	3-Hexen-1-ol, cis-3-Hexenol, Hex-3-en-1-ol, Leaf alcohol 2.11 Birch, sweet, oil <i>Betula lenta</i> L. oil
2.12 Bois de rose, oil	Rosewood oil, <i>Aniba rosaeodora</i> oil
2.13 Butanedione	Diacetyl
2.14 Butter acids	
2.15 Butter esters	
2.16 n-Butyl acetate	
2.17 Butyl isovalerate	
2.18 Butyl butyryllactate	Butyl butyrolactate
2.19 Butyl lactate	
2.20 4-butyl-1,4-octanolactone	4,4-Dibutyl-γ-butyrolactone, 4-Butyl-4-octanolide
2.21 Butyric acid	
2.22 1,4-butyrolactone	Gamma-butyrolactone
2.23 Birch, sweet leaves dehydrated	<i>Betula alba</i> L. leaves dehydrated, ground; Sweet birch leaves
2.24 2-Butanone	Ethyl methyl ketone, Methyl ethyl ketone
2.25 Barley distillers extract denatured	<i>Hordeum vulgare</i> , Denatured beer
2.26 Banana Oil	Oil of <i>Musa</i> spp., Oil of Banana
2.27 Benzyl butyrate	Benzyl butanoate
2.28 Benzyl cinnamate	Cinnamein
2.29 Benzyl isobutyrate	Benzyl 2-methyl propanoate
2.30 Benzyl salicylate	Benzyl o-hydroxybenzoate
2.31 Black wattle	Mimosa, <i>Acacia decurrens</i> Willd. var. <i>dealbata</i>
2.32 Butylamine	
2.33 Butyraldehyde	Butyl aldehyde, Butyric aldehyde
2.34 Bergamot oil	<i>Citrus aurantium</i> L. ssp. <i>bergamia</i> , oil
2.35 Blackberry Juice Concentrate	
2.36 Blackcurrant Juice Concentrate	
2.37 Blueberry Juice Concentrate	
2.38 Balsam, tolu tree extract	Myroxylon balsanum L. Harms., extract
2.39 Benzophenone	Benzoilbenzene, Diphenyl Ketone
2.40 Butyl butyrate	n-Butyl butyrate

3.1	Capsicum	Paprika, <i>Capsicum annum</i> L.
3.3	Caraway, oil	<i>Carum carvi</i> L. oil
3.4	Caraway seeds	<i>Carum carvi</i> L. seeds
3.5	Carob bean, oil	St. John's bread, Locust bean oil, <i>Ceratonia siliqua</i> L. oil
3.6	Carvone	p-Mentha-6,8-dien-2-one
3.7	Celery seed, oleoresin	<i>Apium graveolens</i> L. seed, oleoresin
3.8	Cinnamaldehyde	Cinnamic aldehyde
3.9	Cinnamon, Ceylon	<i>Cinnamomum zeylanicum</i> Nees
3.10	Cinnamon, Ceylon, oil	<i>Cinnamomum zeylanicum</i> Nees oil
3.11	Cinnamon, Chinese, bark, oil	Cassia oil, <i>Cinnamomum aromaticum</i> Nees oil
3.12	Cinnamyl acetate	
3.13	Cinnamyl alcohol	Cinnamic alcohol
3.14	Cinnamyl isobutyrate	
3.15	Cinnamyl phenyl-acetate	Cinnamyl alpha-toluate
3.16	Citral	Geranial, Neral
3.17	Clove, oil	<i>Eugenia caryophyllus</i> oil
3.18	Cocoa powder	<i>Theobroma cacao</i> L. powder
3.19	Coriander, oil	<i>Coriandrum sativum</i> L. oil
3.20	Cornmint oil	<i>Mentha arvensis</i> L. oil
3.21	Cumin, fruit, dehydrated	<i>Cuminum cyminum</i> L. fruit, dehydrated
3.22	Cyclohexyl acetate	
3.23	Cyclohexyl butyrate	
3.24	Chicory root powder	Chicory root, <i>Chicorium intybus</i> L. root dehydrated, ground
3.25	Clove powder	<i>Eugenia caryophyllus</i> flower-buds dried
3.26	Cherry Juice, concentrated	
3.27	Coriander seeds	<i>Coriandrum sativum</i> L. seeds
3.28	Cyclotene 3-methyl	Cyclotene, Methyl cyclopentenolone cyclo-pentane -1,2-dione
3.29	Capsicum oleoresin	<i>Capsicum annum</i> L. oleoresin, Paprika oleoresin
3.30	Camphor Crystals	2-Bornanone
3.31	Camphor oil, white	<i>Cinnamomum camphora</i> oil
3.32	Castoreum resin	<i>Castor fibre</i> L., <i>Castor canadensis</i> Kerbil
3.33	Citronella oil (formosan)	<i>Cymbopogon nardus</i> (L.) Rendle, <i>Cymbopogon winterianus</i> , Citronella oil(Ceylan).
3.34	Citronellal	3,7 - Dimethyloct-6-enal
3.35	Citronellyl acetate	3,7 - Dimethyl-6-octen-1-yl acetate
3.36	Carrot, dehydrated, sliced, diced or ground	<i>Daucus carota</i> L., dried, sliced, diced or ground
3.37	Chamomile flower powder	<i>Matricaria chamomilla</i> L. flowerdehydrated, ground; Camomille allemande matricaire
3.38	Carrot root, ground	<i>Daucus carota</i> L., ground
3.39	Camphene	
3.40	Chocolate extract	Cocoa extract

4.1	Decanal	Capric aldehyde, Aldehyde C-10
4.2	Decanoic acid	n-Capric acid
4.3	1,4-decanolactone	gamma-Decalactone, 1,4-decanolide
4.4	1,5-Decanolactone	delta-Decalactone
4.5	Decyl acetate	Acetate C-10, Decanyl acetate
4.6	Diethyl malonate	Ethyl malonate
4.7	Diethyl succinate	Diethyl butanedioate, Ethyl succinate
4.8	3,4-Dihydrocoumarin	1,2-Benzodihydropyrone
4.9	5,7-Dihydro-2-methyl-thieno' (3,4d) pyrimidine	Thienylpyrimidine
4.10	Dill seeds	<i>Anethum graveolens</i> L. seeds
4.11	p-Dimethoxybenzene	Dimethyl hydroquinone
4.12	2,6-Dimethoxy phenol	
4.13	1,2-dimethoxy-4-propenyl-benzene	Isoeugenyl methyl ether, o-Methyl isoeugenol
4.14	Dimethyl disulphide	Methyl disulfide, Methyl disulphide, Dimethyl disulfide
4.15	2,6-Dimethyl-5-heptenal	Melonal®
4.16	2,5-Dimethyl-4-hydroxy- 2,3-dihydrofuran-3-one	4-Hydroxy-2,5-dimethyl-furan-3-one
4.17	3,7-Dimethyl oct-6-en-1-ol	Citronellol, d-Citronellol
4.18	3,7-Dimethyl-octa- 2,6-dien-1-yl isobutyrate	Geranyl isobutyrate
4.19	1,1-dimethyl-2-phenyl-ethyl acetate	Dimethyl benzyl carbinyl acetate
4.20	2,5 Dimethylpyrazine	Glycoline, Ketine
4.21	2,6-Dimethylpyrazine	
4.22	Dimethyl sulfide	Methyl Sulfide
4.23	Dipentene	dl-Limonene; p-Mentha-1,8-diene
4.24	Dodecan-1-ol	Alcohol C-12, Lauryl alcohol, Dodecyl alcohol
4.25	1,5 Dodecanolactone	delta-Dodecalactone
4.26	Dodecyl acetate	Dodecanyl acetate, Acetate C-12, Lauryl acetate
4.27	Diethyl sebacate	Diethyl decanedioate, Ethyl sebacate
4.28	1,1-dimethoxy-2 phenylethane	Phenyl acetaldehyde dimethyl acetal
4.29	Dodecanal	Lauric aldehyde
4.30	Dodecanoic acid	Lauric acid
4.31	1-Decanol	Decyl alcohol, Capric alcohol, Alcohol C-10

5.1	1,8 Epoxy-p menthane	Eucalyptol, 1,8 Cineole
5.2	3-Ethoxy-4-hydroxy-benzaldehyde	Ethyl protal, Ethyl vanillin
5.3	2-Ethoxy naphthalene	Nerolin, b-Naphthylethyl ether, Bromelia
5.4	Ethyl acetate	
5.5	Ethyl acetoacetate	Acetoacetic ester, Ethylb-ketobutyrate, Ethyl-3-oxobutanoate
5.6	Ethyl acrylate	Ethyl propenoate
5.7	Ethyl anthranilate	Ethyl o-aminobenzoate
5.8	Ethyl benzoylacetate	Benzoylacetic ester
5.9	Ethyl benzoate	
5.10	Ethyl butyrate	Ethyl butanoate
5.11	Ethyl cinnamate	
5.12	Ethyl formate	
5.13	Ethyl heptanoate	Ethyl oenanthatate, Oenanthic ether
5.14	Ethyl hexanoate	Ethyl caproate
5.15	2-Ethyl-3-hydroxy-4-pyrone	Ethyl maltol
5.16	Ethyl isovalerate	
5.17	Ethyl lactate	
5.18	2-Ethyl-3,(5or6)-dimethyl pyrazine	2,(5or6)-Dimethyl-3-Ethyl Pyrazine
5.19	Ethyl 2-methyl-butryate	
5.20	2-Ethyl-3-methyl pyrazine	
5.21	Ethyl nonanoate	Ethyl pelargonate
5.22	Ethyl octanoate	Ethyl caprylate
5.23	Ethyl phenyl acetate	
5.24	Ethyl 3-phenylglycidate	
5.25	Ethyl propionate	
5.26	Ethyl salicylate	Ethyl o-hydroxybenzoate
5.27	Ethyl n-valerate	
5.28	Eugenol	
5.29	Ethyl decanoate	Ethyl caprate
5.30	Ethyl dodecanoate	Ethyl laurate
5.31	Ethyl hexadecanoate	Ethyl palmitate
5.32	Ethyl oleate	
5.33	Ethyl levulinate	Ethyl 4-oxopentanoate, Ethyl levulate
5.34	Elderberry Juice Concentrate	
5.35	Ethyl anisate	Ethyl p-methoxybenzoate
5.36	Ethyl tetradecanoate	Ethyl myristate
5.37	Eucalyptus Oil	Eucalyptus globulus, oil
6.1	Fennel seeds	Fennel, <i>Foeniculum vulgare</i> seeds
6.2	Fenugreek oleoresine	<i>Trigonella foenum - graecum</i> L. oleoresin
6.3	Fenugreek seeds	<i>Trigonella foenum - graecum</i> L. seeds
6.4	Fenugreek seed, extract	<i>Trigonella foenum - graecum</i> L. seed extract
6.5	Fusel oil, refined	
6.6	Fenchyl alcohol	Fenchol, 1,3,3-trimethyl-2-norbornanol
6.7	Florentine Orris Concrete	Orris Oil
6.8	Fennel Terpenes	

7.1	Garlic	<i>Allium sativum</i> L.
7.2	Garlic, oil	<i>Allium sativum</i> L. oil
7.3	Geraniol	
7.4	Geranyl acetate	Geraniol acetate
7.5	Geranyl butyrate	3,7-Dimethyl-octa-2,6-dienyl butyrate
7.6	Geranyl formate	3,7-Dimethyl-octa-2,6-dien-1-yl formate, geraniol formate
7.7	Geranyl isovalerate	
7.8	Geranyl propionate	
7.9	Geranyl valerate	
7.10	Ginger, oleoresin	<i>Zingibar officinale</i> Rosc. oleoresin
7.11	Ginger tubers dehydrated	Ginger, <i>Zingibar officinale</i> Rosc. tubers, dehydrated
7.12	Glycyrrhiza	Licorice, <i>Glycyrrhiza glabra</i> L.
7.13	Glycyrrhiza extract powder	Licorice extract powder, <i>Glycyrrhiza glabra</i> L. extract powder
7.14	Guaiacol	o-Hydroxyanisole, o-Methoxyphenol
7.15	Geranium, rose, oil	Geranium oil, <i>Pelargonium graveolens</i> oil, Pelargonium oil
7.16	Grapefruit extract condensed	<i>Citrus paradisi</i> M. extract condensed, <i>Citrus decumana</i> L. extract condensed
7.17	Ginger oil	
7.18	Grape juice concentrate	
8.1	Hemlock, oil	Oil of spruce, <i>Tsuga heterophylla</i> oil, <i>Tsuga canadensis</i> L. oil
8.2	Heptan-4-one	Dipropyl ketone, 4-Heptanone
8.3	cis Hept-4-enal	cis-4-Heptenal
8.4	Heptan-2-one	Methyl amyl ketone
8.5	1,4-Heptanolactone	Gamma heptalactone, 1,4-Heptanolide
8.6	Heptyl acetate	
8.7	Hexanal	Aldehyde C-6, Caproic aldehyde, Hexoic aldehyde, n-Caproaldehyde
8.8	Trans-2-hexenal	Transhex-2-enal
8.9	Hexane 2,3-dione	Acetyl butyryl
8.10	Hexanoic acid	n-Caproic acid
8.11	Hex-3-enal	cis-3-Hexenal
8.12	1,4 Hexanolactone	Ethyl butyrolactone, gamma-Hexalactone
8.13	Hex-2-en-1-ol	2-Hexenol, trans-2-Hexenol
8.14	Hexyl acetate	
8.15	n-Hexyl alcohol	1-Hexanol, Hexan-1-ol
8.16	Hexyl hexanoate	Hexyl caproate, Hexyl capronate
8.17	4(p-Hydroxy-phenyl)-butan-2-one	p-Hydroxy benzyl acetone
8.19	Hydrolyzed vegetable protein	
8.20	7-Hydroxy-3,7-dimethyl-octanal	Hydroxy-citronellal

9.1	Indole	1-Benzazole, 2,3-Benzopyrrole
9.2	alpha-Ionone	4-(2,6,6-Trimethyl-2-cyclohex-1-enyl)-but-3-en-2-one
9.3	beta-Ionone	4-(2,6,6-Trimethyl-1-cyclohex-1-enyl)-but-3-en-2-one
9.4	Isobomyl acetate	2-Camphanyl acetate
9.5	Isobutyl acetate	
9.6	Isobutyl phenylacetate	
9.7	Isobutyraldehyde	2-Methylpropanal
9.8	Isopentyl acetate	Isoamyl acetate, Amylacetate ester
9.9	Isopentyl formate	Isoamyl formate
9.10	Isopentyl isovalerate	Isoamyl isovalerate
9.11	Isopentyl propionate	Isoamyl propionate
9.12	Isopentyl salicylate	Isoamyl salicylate
9.13	4-Isopropyl benzaldehyde	Cuminaldehyde, Cuminic aldehyde
9.14	Isobutyric acid	2-Methylpropanoic acid
9.15	Isovaleraldehyde	3-Methylbutyaldehyde
9.16	Isovaleric acid	
9.17	Isoamyl butyrate	Isopentyl butyrate
9.18	Isobutyl formate	
9.19	Isoeugenol	2-Methoxy-4-propenyl phenol
9.20	Isopentylamine	1-Amino-3-methyl butane, Isoamylamine
9.21	Isopropyl acetate	
10.1	Juniper, oil	<i>Juniperus communis</i> L., oil
10.2	Juniperberry powder	Juniperberry, <i>Juniperberry communis</i> L. powder
11.1	Krill, whole, dehydrated,ground	Dried krill meal
11.2	Krill, whole, pasturized	Whole krill
12.1	Lemon, oil	<i>Citrus limonum</i> L. oil
12.2	Lime, oil	<i>Citrus aurantifolia</i> S. oil
12.3	Linalool	
12.4	Linalyl acetate	
12.5	Linalyl formate	Linalool formate
12.6	Linalyl propionate	3,7-Dimethyl-1,6-octadien-3-yl-propanoate
12.7	Lovage root oil	<i>Levisticum officinale</i> K. root oil
12.8	Lemon, oil, terpenes	<i>Citrus limonum</i> L. oil terpenes
12.9	Labdanum, resin	<i>Cistus ladaniferus</i> L., <i>Labdanum ciste</i> resin
12.10	Lime, oil terpenes	<i>Citrus aurantifolia</i> Swingle oil terpenes
12.11	Linalyl butyrate	3,7-Dimethyl-octa-1,6-dien-3-yl butyrate
12.12	Lemon Juice Concentrate	
12.13	d-Limonene	d-p-Mentha-1,8-diene
13.1	Mace, oil	<i>Myristica fragans</i> H. arillodes oil
13.2	Maltol	3-Hydroxy-2-methyl-4-pyrone
13.3	Mandarin oil	Tangerine oil, <i>Citrus reticula blanco</i> oil
13.4	Marjoram, sweet	<i>Marjorana hortensis</i> M.
13.5	4-(p-Methoxyphenyl)butan-2-one	Raspberry ketone methyl ether, Anisyl acetone
13.6	2-Methoxy-4-vinylphenol	4-Vinyl guaiacol
13.7	p-Methylacetophenone	4-methylacetophenone
13.8	Methyl anthranilate	
13.9	2-Methylbutyric acid	2-Methylbutanoic acid
13.11	Methyl cinnamate	
13.12	6-Methyl coumarin	
13.14	5-Methylhexan-2-one	Isoamyl methyl ketone
13.15	Methyl hexyl ketone	2-Octanone
13.16	Methyl non-2-ynoate	Methyl octine carbonate, Methyl octyne carbonate
13.17	Methyl oct-2-ynoate	Methyl heptene carbonate
13.18	4-Methyl-1-phenyl-2-pentanone	Isobutyl benzyl ketone
13.19	Methyl salicylate	
13.20	Methyl thiobutyrate	Methane thiol-n-butyrate
13.21	3-Methylthiopropionaldehyde	Methyl beta-mercaptopropionaldehyde
13.22	Monosodium glutamate	
13.23	Musk ambrette	
13.24	Marshmallow root powder	<i>Althaeae officinalis</i> L. root dehydrated, ground; Marsh mallow root
13.25	l-and dl-Menthol	Menthol
13.27	2-Methoxy cinnamic aldehyde o-Methoxy	cinnamic aldehyde, Methoxycinnamaldehyde
13.28	1-(4-methoxyphenyl)pent-1-en-3-one	Ethone
13.29	4-Methoxytoluene	p-Tolyl methyl ether, p-Cresyl methyl ether, p-Methylanisole
13.30	2-Methyl-butan-2-ol	t-Amyl alcohol
13.31	Methyl isobutyrate	2-Methyl propanoic acid methyl ester
13.32	Methyl N-methyl anthranilate	Dimethyl anthranilate
13.33	Methyl-alpha-ionone	
13.34	Methyl-beta-ionone	
13.35	Methyl phenylacetate	Methyl alpha-toluate

14.1	n-Nonanal	Aldehyde C-9
14.2	gamma-Nonalactone	Aldehyde C-18
14.3	Nutmeg, oil	<i>Myristica fragans</i> Houtt. oil
14.4	Nonan-1-ol	Nonyl alcohol
14.5	Nonan-2-one	Methyl heptyl ketone
14.6	Neroli extract	<i>Citrus aurantium</i> L. subspecies <i>amara</i> L. extract
15.1	n-Octanal	Aldehyde C-8, Caprylic aldehyde
15.2	Octanoic acid	n-Caprylic acid
15.3	Octan-1-ol	n-Octyl alcohol, Caprylic alcohol, Alcohol C-8
15.4	1,4-Octanolactone	gamma-Octalactone, n-Octalactone
15.5	Oct-1-en-3-ol	Amyl vinyl carbinol
15.6	Onion, oil	<i>Allium cepa</i> L. oil
15.7	Orange, oil	<i>Citrus sinensis</i> oil
15.8	Orange, oil, terpenes	<i>Citrus sinensis</i> oil, terpenes
15.9	Orange, oil, terpeneless	<i>Citrus sinensis</i> oil terpeneless
15.10	Orange Juice Concentrate	
16.1	omega-Pentadecalactone	Pentadecanolide, Angelica lactone, Thibetolide
16.2	2,3-Pentanedione	Acetyl propionyl
16.3	Pentyl acetate	Amyl acetate
16.4	Pentyl benzoate	Amyl benzoate
16.5	Pentyl butyrate	Amyl butyrate
16.6	alpha-Pentyl cinnamaldehyde	alpha-Amyl cinnamaldehyde
16.7	Pentyl cinnamate	Amyl cinnamate
16.8	Pentyl formate	Amyl formate
16.9	Pentyl hexanoate	Amyl caproate, Amyl hexanoate, Pentyl caproate
16.10	Pentyl isovalerate	Amyl isovalerate
16.11	Pentyl phenylacetate	Amyl phenylacetate
16.12	Pentyl propionate	Amyl propionate
16.13	Pentyl salicylate	Amyl salicylate
16.14	Pentyl valerate	Amyl valerate
16.15	Pepper, black	<i>Piper nigrum</i> L. leaves and twigs
16.16	Pepper, black, oil	<i>Piper nigrum</i> L. oil
16.17	Pepper, black, oleoresin	<i>Piper nigrum</i> L. oleoresin
16.18	Pepper, tabasco	Cayenne pepper, Chillies, <i>Capsicum frutescens</i> L.
16.19	Peppermint	<i>Mentha piperita</i> L.
16.20	Peppermint, oil	<i>Mentha piperita</i> L. oil
16.21	Petitgrain, oil	<i>Citrus aurantium</i> L. leaves and twigs oil
16.22	alpha-Phellandrene	p-Mentha-1,5-diene
16.23	Phenylacetic acid	alpha-Toluic acid
16.24	4-Phenyl-3-buten-2-one	Benzylidene acetone, Benzal acetone
16.25	2-Phenyl ethanol	2-Phenyl-ethyl alcohol
16.26	2-Phenyl ethyl acetate	Phenyl ethyl acetate
16.27	2-Phenyl ethyl phenyl acetate	
16.28	2-Phenyl ethyl propionate	
16.29	3-phenyl propionaldehyde	Hydrocinnamaldehyde
16.30	1-Phenylpropan-1-ol	alpha-Ethyl-benzyl alcohol, Phenylethyl carbinol
16.31	3-Phenylpropan-1-ol	Benzyl ethyl alcohol, 3-Phenyl propyl alcohol, Hydrocinnamic alcohol
16.32	Pimenta, oil	Allspice oil, <i>Pimenta dioica</i> oil
16.33	Pin-2-ene	Alpha-Pinene
16.34	Piperonaldehyde	Piperonal, Heliotropine
16.35	Propan-1-ol	n-Propyl alcohol
16.36	Prop-2-enethiol	Allyl mercaptan
16.37	Propenylguaethol	2-Ethoxy-5-propenyl-phenol, Cinnamyl methyl ketone
16.38	Propyl acetate	
16.39	Propyl benzoate	
16.40	Peach juice concentrated	
16.41	Pentan-2-one	Methyl propyl ketone, 2-Pentanone
16.42	Phenyl acetaldehyde	
16.43	2-Phenyl ethyl cinnamate	Phenethyl cinnamate, Benzyl carbinyl cinnamate
16.44	Propionaldehyde	Propyl aldehyde, Methyl acetaldehyde, Propanal
16.45	Pineapple Juice Concentrate	
16.46	Pyruvic acid	
17.1	Quassia	<i>Quassia amara</i> L. wood
17.2	Quillaia extract	Quillaia saponaria molina, soap bark tree
18.1	Rhodinol	alpha-Citronellol, l-Citronellol, 3,7-Dimethyl-7-octen-1-ol
18.2	Rum extractives	
18.3	Rose oil Bulgarian	Attar of roses
18.4	Rosemary oil	<i>Rosmarinus officinalis</i> L. oil
18.5	Ribotide	Disodium Inosinate/Disodium Guanylate

19.1	Sage	<i>Salvia officinalis</i> L.
19.2	Skatole	
19.3	Storax resinoid	Styrax resinoid, <i>Liquidambar styraciflua</i> L. resinoid, <i>Liquidambar orientalis</i> Mill. resinoid
19.4	Sugarcane molasses, extract	Molasses extract condensed
19.5	Spearmint oil	<i>Menta spicata</i> Houds oil
19.6	Sage oil	Salva officinalis oil, Dalmatian oil of sage
20.1	alpha-Terpineol	
20.2	Terpinyl acetate	p-Menth-1-en-8-yl-acetate
20.3	5,6,7,8-Tetrahydroquinoxaline	Cyclohexapyrazine
20.4	Thyme	<i>Thymus vulgaris</i> , <i>Thymus zygis</i>
20.5	Thyme, oil	<i>Thymus vulgaris</i> oil, <i>Thymus zygis</i> oil
20.6	p-Tolyl acetate	p-Cresyl acetate
20.7	Tolualdehydes (mixed o,m,p, isomers)	Tolyl aldehydes
20.9	2,3,5-Trimethylpyrazine	
20.10	Tetradecanal	Myristaldehyde; Aldehyde C-14, myristic
20.11	Thymol	3-p-Cymenol
20.12	Thyme, wild, powder,	<i>Thymus serpyllum</i> L. aerial part dehydrated, ground (serpolet)
20.13	4-Terpinenol	Terpinen-4-ol, p-Menth-1-en-4-ol
20.14	Tetradecanoic acid	Myristic acid
20.15	2,3,5,6-Tetramethyl pyrazine	
20.17	Turmeric oleoresin	<i>Curcuma longa</i> L. oleoresin
21.1	gamma-Undecalactone	Aldehyde-C14; Peach aldehyde
21.2	Undecan-2-one	Methyl nonyl ketone, 2-Undecanone
21.3	10-Undecen-1-al	Undec-10-enal, 10-Undecylenic aldehyde, 10-Undecenal
22.1	n-Valeric acid	Pentanoic acid
22.2	Vanilla, oleoresin	<i>Vanilla planifolia</i> oleoresin
22.3	Vanilla pods with seeds,	Vanilla, <i>Vanilla planifolia</i> boiled, dehydrated, immature
22.4	Vanillin	
22.5	Veratraldehyde	Methylvanillin
23.1	Wintergreen oil	<i>Gaultheria procumbens</i> L. oil
25.3	Ylang Ylang oil	<i>Cananga odorata</i> (Lam) Hook & Thoms, Cananga Ylang-Ylang
26.1	Zingerone	4-(4-Hydroxy-3-methoxy phenyl)-2-butanone

SCHEDULE V

PART II

Column I International Feed Name	Column II
	Common Name(s)
12.1	Liquid Smoke
	Smoke flavoring

**INDEX
SCHEDULE V - PART I**

INGREDIENT NAME	ITEM	MAX LIMIT (PPM)	CAS #
-A-			
<i>Acacia decurrens</i> Willd. var. <i>dealbata</i>	2.31	0.17	-- -- --
Acetaldehyde *	1.1	10	75-07-0
Acetate C-10	4.5	---	112-17-4
Acetate C-12	4.26	5	112-66-3
Acetate PA	1.9	---	7493-74-5
Acetic aldehyde	1.1	10	75-07-0
Acetoacetic ester	5.5	50	141-97-9
Acetoin *	1.2	50	513-86-0
2'-Acetonaphthone *	1.3	5	93-08-3
Acetophenone *	1.4	10	98-86-2
Acetyl butyryl	8.9	5	3848-24-6
Acetyl methyl carbinol	1.2	50	513-86-0
Acetyl propionyl	16.2	20	600-14-6
2-Acetylpyridine *	1.5	3	1122-62-9
2-Acetylthiazole *	1.6	1	24295-03-2
Alcohol C-8	15.3	5	111-87-5
Alcohol C-10	4.31	10	112-30-1
Alcohol C-12	4.24	10	112-53-8
Aldehyde C-6	8.7	---	66-25-1
Aldehyde C-8	15.1	1.5	124-13-0
Aldehyde C-9	14.1	1.5	124-19-6
Aldehyde C-10	4.1	14	112-31-2
Aldehyde C-14	21.1	31.25	104-67-6
Aldehyde C-14, myristic	20.10	---	124-25-4
Aldehyde C-18	14.2	32	104-61-0
Alfalfa extract *	1.16	GMP	99999-19-5

<i>Allium cepa</i> L. oil	15.6	GMP	8002-72-0
<i>Allium sativum</i> L.	7.1	GMP	-- -- --
<i>Allium sativum</i> L., oil	7.2	GMP	8000-78-0
Allspice oil	16.32	GMP	8006-77-7
Allyl-3-cyclohexyl propionate *	1.7	10	2705-87-5
Allyl caproate	1.8	3	123-68-2
Allyl cyclohexane propionate	1.7	10	2705-87-5
Allyl hexanoate *	1.8	3	123-68-2
Allyl mercaptan	16.36	2	870-23-5
Allyl phenoxyacetate *	1.9	---	7493-74-5
<i>Althaea officinalis</i> L. root dehydrated, ground	13.24	GMP	-- -- --
1-Amino-3-methyl butane	9.20	1	107-85-7
Amyl acetate	16.3	100	628-63-7
Amyl acetic ester	9.8	500	123-92-2
<i>t</i> -Amyl alcohol	13.30	2	75-85-4
Amyl benzoate	16.4	---	2049-96-9
Amyl butyrate	16.5	10	540-18-1
Amyl caproate	16.9	20	540-07-8
<i>alpha</i> -Amyl cinnamaldehyde	16.6	5	1331-92-6
Amyl cinnamate	16.7	---	3487-99-8
Amyl formate	16.8	30	638-49-3
Amyl hexanoate	16.9	20	540-07-8
Amyl isovalerate	16.10	30	25415-62-7
Amyl phenylacetate	16.11	5	102-19-2
Amyl propionate	16.12	70	624-54-4
Amyl salicylate	16.13	---	2050-08-0
Amyl valerate	16.14	50	2173-56-0
Amyl vinyl carbinol	15.5	---	3391-86-4
<i>trans</i> -Anethole *	1.10	62.5	104-46-1
<i>Anethum graveolens</i> L. seeds	4.10	GMP	-- -- --

<i>Angelica archangelica</i> L. root dehydrated *	1.17	GMP	--- --
Angelica lactone	16.1	1	106-02-5
Angelica root ground	1.17	GMP	--- --
Angelica root powder	1.17	GMP	--- --
<i>Aniba rosaeodora</i> oil	2.12	GMP	--- --
p-Anisaldehyde *	1.11	50	123-11-5
Anise, oil *	1.12	<62.5 Anethole	8007-70-3
Anise seeds *	1.13	<1 Safrole <62.5 Anethole	99999-27-4
Aniseed	1.13	< 1 Safrole <62.5 Anethole	99999-27-4
Anisic aldehyde	1.11	50	123-11-5
Anisyl acetate *	1.14	15	104-21-2
Anisyl acetone	13.5	20	104-20-1
Anisyl alcohol	1.18	20	105-13-5
Anisyl formate	1.19	15	104-01-8
<i>Apium graveolens</i> L. seed oleoresin	3.7	GMP	--- --
Apple essence	1.20	GMP	--- --
Apple extract	1.15	GMP	--- --
Apple flavor isolates	1.15	GMP	--- --
Apple juice concentrate	1.21	GMP	--- --
Apple, wild crab, peelings, extract, condensed	1.15	GMP	--- --
Attar of roses	18.3	GMP	8007-01-0
Aubepine liquid	1.11	50	123-11-5
-B-			
Balsam, Peru, bark extract *	2.1	GMP	8007-00-9
Balsam, Peru, oil *	2.2	8	8007-00-9
Banana oil *	2.26	GMP	--- --
Balsam, tolu tree extract *	2.38	GMP	9000-64-0
Barley distillers extract denatured (<i>Hordeum vulgare</i>) *	2.25	GMP	--- --
Benzaldehyde, free from chlorine *	2.3	125	100-52-7

1-Benzazole	9.1	0.5	120-72-9
1,2-Benzodihydropyrone	4.8	30	119-84-6
Benzoic aldehyde	2.3	125	100-52-7
Benzoylbenzene	2.39	5	119-61-9
Benzophenone	2.39	5	119-61-9
2,3-Benzopyrrole	9.1	0.5	120-72-9
Benzoyl acetate	5.8	---	94-02-0
Benzyl 3-methyl butyrate	2.7	---	103-38-8
Benzyl acetate *	2.4	125	140-11-4
Benzyl acetone	16.24	2	122-57-6
Benzyl alcohol *	2.5	125	100-51-6
Benzyl alpha toluate	2.8	5	102-16-9
Benzyl benzoate *	2.6	125	120-51-4
Benzyl butanoate	2.27	50	103-37-7
Benzyl butyrate *	2.27	50	103-37-7
Benzyl carbonyl cinnamate	16.43	5	103-53-7
Benzyl cinnamate *	2.28	5	103-41-3
Benzyl ethyl alcohol	16.31	---	122-97-4
Benzyl o-hydroxybenzoate	2.30	2	118-58-1
Benzylidene acetone	16.24	2	122-57-6
Benzyl isobutyrate *	2.29	10	103-28-6
Benzyl isovalerate *	2.7	---	103-38-8
Benzyl-2-methyl propanoate	2.29	10	103-28-6
Benzyl phenyl acetate *	2.8	5	102-16-9
Benzyl propionate *	2.9	20	122-63-4
Benzyl salicylate *	2.30	2	118-58-1
Bergamot oil *	2.34	GMP	8007-75-8
<i>Betula alba</i> L.leaves,dehydrated, ground	2.23	12.5	-- -- --
<i>Betula lenta</i> L. oil	2.11	12.5	68917-50-0
Birch, sweet leaves, dehydrated, ground *	2.23	12.5	-- -- --
Birch, sweet, oil *	2.11	12.5	68917-50-0

Blackberry juice concentrate *	2.35	GMP	--- --
Black current juice concentrate *	2.36	GMP	--- --
Black wattle *	2.31	0.17	--- --
Blueberry juice concentrate *	2.37	GMP	--- --
Bois de rose, oil *	2.12	GMP	--- --
2-Bornanone	3.30	25	76-22-2
Bromelia	5.3	---	93-18-5
Butanal	2.33	1	123-72-8
Butanedione *	2.13	50	431-03-8
2-Butanone *	2.24	---	78-93-3
Butter acids *	2.14	---	99999-21-1
Butter esters *	2.15	---	99999-21-2
<i>n</i> -Butyl acetate *	2.16	30	123-86-4
Butyl aldehyde	2.33	1	123-72-8
Butylamine *	2.32	1	109-73-9
Butyl butyrate *	2.40	50	109-21-7
<i>n</i> -Butyl butyrate	2.40	50	109-21-7
Butyl butyrolactate	2.18	10	7492-70-8
Butyl butyryllactate *	2.18	10	7492-70-8
Butyl isovalerate *	2.17	---	109-19-3
Butyl lactate *	2.19	10	138-22-7
4-Butyl-1,4-octanolactone *	2.20	---	7774-47-2
4-Butyl-4-octanolide	2.20	---	7774-47-2
Butyraldehyde *	2.33	1	123-72-8
Butyric acid *	2.21	100	107-92-6
Butyric aldehyde	2.33	1	123-72-8
1,4-Butyrolactone *	2.22	10	96-48-0
<i>gamma</i> -Butyrolactone	2.22	10	96-48-0
-C-			
<i>Camomille allemande Matricaire</i>	3.37	GMP	--- --
2-Camphanyl acetate	9.4	5	125-12-2

Camphene *	3.39	2	79-92-5
Camphor crystals *	3.30	25	76-22-2
Camphor oil, white *	3.31	0.03	8008-51-3
<i>Cananga odorata</i> (Lam) Hook & Thoms	25.3	---	8006-81-3
Cananga ylang-ylang	25.3	---	8006-81-3
<i>n</i> -Capric acid	4.2	10	334-48-5
Capric alcohol	4.31	10	112-30-1
Capric aldehyde	4.1	14	112-31-2
<i>n</i> -Caproaldehyde	8.7	---	66-25-1
<i>n</i> -Caproic acid	8.10	10	142-62-1
Caproic aldehyde	8.7	---	66-25-1
<i>n</i> -Caprylic acid	15.2	50	124-07-2
Caprylic alcohol	15.3	5	111-87-5
Caprylic aldehyde	15.1	1.5	124-13-0
Capsicum *	3.1	GMP	8023-77-6
<i>Capsicum anuum</i> L.	3.1	GMP	8023-77-6
<i>Capsicum anuum</i> L. oleoresin	3.29	GMP	8023-77-6
<i>Capsicum frutescens</i> L.	16.18	GMP	8023-77-6
Capsicum oleoresin *	3.29	GMP	8023-77-6
Caraway, oil *	3.3	GMP	8000-42-8
Caraway seeds *	3.4	GMP	--- --
Carob bean, oil *	3.5	GMP	9000-40-2
Carrot root, dehydrated, sliced, diced or ground *	3.36	GMP	--- --
Carrot root, ground *	3.38	GMP	--- --
<i>Carum carvi</i> L. oil	3.3	GMP	8000-42-8
<i>Carum carvi</i> L. seeds	3.4	GMP	--- --
Carvone *	3.6	---	2244-16-8
Cassia oil	3.11	<17.5 cinnamaldehyde	8007-80-5
<i>Castor canadensis</i> Kerbil	3.32	0.1	--- --
Castoreum resin *	3.32	0.1	--- --
<i>Castor fibre</i> L.	3.32	0.1	--- --

Cayenne pepper	16.18	GMP	8023-77-6
Celery seed, oleoresin *	3.7	GMP	-- -- --
<i>Ceratonia siliqua</i> L. oil	3.5	GMP	9000-41-2
Chamomile flower powder *	3.37	GMP	-- -- --
Cherry juice concentrated *	3.26	GMP	-- -- --
Chicory root	3.24	GMP	-- -- --
Chicory root power root dehydrated ground *	3.24	GMP	-- -- --
Chillies	16.18	GMP	8023-77-6
Chocolate extract	3.40	GMP	---
<i>Cichorium intybus</i> L.(Chicore)	3.24	GMP	-- -- --
1,8-Cineole	5.1	5	470-82-6
Cinnamaldehyde *	3.8	17.5	104-55-2
Cinnamein	2.28	5	103-41-3
Cinnamic alcohol	3.13	30	104-54-1
Cinnamic aldehyde	3.8	17.5	104-55-2
<i>Cinnamomum aromaticum</i> Nees oil	3.11	<17.5 cinnamaldehyde	8007-80-5
<i>Cinnamomum camphora</i> oil	3.31	0.03	8008-51-3
<i>Cinnamomum zeylanicum</i> Nees	3.9	<17.5 cinnamaldehyde	-- -- --
<i>Cinnamomum zeylanicum</i> Nees oil	3.10	<17.5 cinnamaldehyde	8007-80-5
Cinnamon, Ceylon *	3.9	<17.5 cinnamaldehyde	-- -- --
Cinnamon, Ceylon, oil *	3.10	<17.5 cinnamaldehyde	8007-80-5
Cinnamon, Chinese, bark, oil *	3.11	<17.5 cinnamaldehyde	8007-80-5
Cinnamyl acetate *	3.12	---	103-54-8
Cinnamyl alcohol *	3.13	30	104-54-1
Cinnamyl alpha-toluate	3.15	---	7492-65-1
Cinnamyl isobutyrate *	3.14	20	103-59-3
Cinnamyl methyl ketone	16.37	20	94-86-0
Cinnamyl phenylacetate *	3.15	---	7492-65-1
Citral *	3.16	12.5	5392-40-5
Citronellal *	3.34	12.5	106-23-0
Citronella oil (Ceylan)	3.33	GMP	8000-29-1

Citronella oil (Formosan) *	3.33	GMP	8000-29-1
Citronellol	4.17	12.5	106-22-9
<i>alpha</i> -Citronellol	18.1	12.5	141-25-3
<i>d</i> -Citronellol	4.17	12.5	106-22-9
<i>l</i> -Citronellol	18.1	12.5	141-25-3
Citronellyl acetate *	3.35	10	150-84-5
<i>Cistus ladaniferus</i> L., <i>Labdanum ciste</i> resin	12.9	0.5	8016-26-0
<i>Citrus aurantifolia</i> S. oil	12.2	<37.5 Limonene	8008-26-2
<i>Citrus aurantifolia</i> Swingle oil, terpenes	12.10	GMP	--- --
<i>Citrus aurantium</i> L. leaves, twigs oil	16.21	GMP	8014-17-3
<i>Citrus aurantium</i> L., subspecies <i>amara</i> L., extract	14.6	GMP	--- --
<i>Citrus aurantium</i> L., ssp. <i>bergamia</i> L., oil	2.34	GMP	8007-75-8
<i>Citrus decumana</i> L., extract condensed	7.16	GMP	--- --
<i>Citrus limonum</i> L. oil	12.1	<37.5 Limonene	8008-56-8
<i>Citrus limonum</i> L., oil terpenes	12.8	<37.5 Limonene	--- --
<i>Citrus paradisi</i> M., extract condensed	7.16	GMP	--- --
<i>Citrus reticula blanco</i> oil	13.3	GMP	8008-31-9
<i>Citrus sinensis</i> oil	15.7	<37.5 Limonene	8008-57-9
<i>Citrus sinensis</i> oil, terpeneless	15.9	GMP	8008-57-9
<i>Citrus sinensis</i> oil, terpenes	15.8	GMP	--- --
Clove, oil *	3.17	<62.5 Eugenol	8000-34-8
Clove powder *	3.25	<62.5 Eugenol	--- --
Cocoa extract	3.40	GMP	--- --
Cocoa powder *	3.18	0.15-0.3%/tonne	--- --
Coriander, oil *	3.19	GMP	8008-52-4
Coriander seeds *	3.27	GMP	--- --
<i>Coriandrum sativum</i> L. oil	3.19	GMP	8008-52-4
<i>Coriandrum sativum</i> L. seeds	3.27	GMP	--- --
Cornmint oil *	3.20	8	68917-18-0
<i>p</i> -Cresyl acetate	20.6	---	140-39-6
<i>p</i> -Cresyl methyl ether	13.29	5	104-93-8

Cumin, fruit, dehydrated *	3.21	GMP	-- -- --
Cuminaldehyde	9.13	15	122-03-2
Cuminic aldehyde	9.13	15	122-03-2
<i>Cuminum cyminum</i> L. fruit dehydrated	3.21	GMP	-- -- --
<i>Curcuma longa</i> L., oleoresin	20.17	GMP	8024-37-1
Cyclohexapyrazine	20.3	---	34413-35-9
Cyclohexyl acetate *	3.22	100	622-45-7
Cyclohexyl butyrate *	3.23	---	1551-44-6
Cyclotene	3.28	50	80-71-1
Cyclotene 3-methyl cyclo-pentane 1,2-dione *	3.28	50	80-71-1
<i>Cymbopogon nardus</i> L. Rendle	3.33	GMP	8000-29-1
<i>Cymbopogon winterianus</i>	3.33	GMP	8000-29-1
3-<i>p</i>-Cymenol	20.11	5	89-83-8
-D-			
Dalmatian oil of sage	19.6	<0.5 Thujone	8022-56-8
<i>Daucus carota</i> L., dehydrated, sliced, diced or ground	3.36	GMP	-- -- --
<i>Daucus carota</i> L., ground	3.38	GMP	-- -- --
<i>delta</i>-Decalactone	4.4	20	705-86-2
<i>gamma</i>-Decalactone	4.3	20	706-14-9
Decanal *	4.1	14	112-31-2
Decanoic acid *	4.2	10	334-48-5
1-Decanol *	4.31	10	112-30-1
1,4-Decanolactone *	4.3	20	706-14-9
1,5-Decanolactone *	4.4	20	705-86-2
1,4-Decanolide	4.3	20	706-14-9
Decanyl acetate	4.5	---	112-17-4
Decyl acetate *	4.5	---	112-17-4
Decyl alcohol	4.31	10	112-30-1
Dehydrated apple	1.22	GMP	-- -- --

Denatured beer	2.25	GMP	-- -- --
Diacetyl	2.13	50	431-03-8
4,4-Dibutyl-γ-butyrolactone	2.20	---	7774-47-2
Diethyl butanedioate	4.7	50	123-25-1
Diethyl decanodioate	4.27	10	110-40-7
Diethyl malonate *	4.6	15	105-53-3
Diethyl sebacate *	4.27	10	110-40-7
Diethyl succinate *	4.7	50	123-25-1
3,4-Dihydrocoumarin *	4.8	30	119-84-6
5,7-Dihydro-2-methyl-thieno(3,4) pyrimidine *	4.9	0.5	36267-71-7
Dill seeds *	4.10	GMP	-- -- --
<i>p</i>-Dimethoxybenzene *	4.11	5	150-78-7
2,6-Dimethoxy phenol *	4.12	---	91-10-1
1,1-Dimethoxy-2-phenylethane *	4.28	1	101-48-4
1,2-Dimethoxy-4-propenyl benzene *	4.13	30	93-16-3
Dimethyl anthranilate	13.32	5	85-91-6
Dimethyl benzyl carbinyl acetate	4.19	---	151-05-3
Dimethyl disulfide	4.14	1	624-92-0
Dimethyl disulphide *	4.14	1	624-92-0
2,(5 or 6)-Dimethyl-3-ethyl pyrazine	5.18	5	13925-07-0
2,6-Dimethyl-5-heptenal *	4.15	10	106-72-9
Dimethyl hydroquinone	4.11	5	150-78-7
2,5-Dimethyl-4-hydroxy-2,3- dihydrofuran-3-one *	4.16	5	3658-77-3
3,7-Dimethyl-octa-1,6-dien-3-yl butyrate	12.11	15	78-36-4
3,7-Dimethyl-octa-2,6-dienyl butyrate	7.5	10	106-29-6
3,7-Dimethyl-octa-2,6-dien-1-yl formate	7.6	30	105-86-2
3,7-Dimethyl-octa-2,6-dien-1-yl isobutyrate *	4.18	---	2345-26-8
3,7-Dimethyl-1, 6-octadien-3-yl propanoate	12.6	10	144-39-8
3,7-Dimethyl oct-6-en-1-ol *	4.17	12.5	106-22-9
3,7-Dimethyl oct-7-en-1-ol	18.1	12.5	141-25-3
3,7-Dimethyloct-6-enal	3.34	12.5	106-23-0

3,7-Dimethyl-6-octen-1-yl acetate	3.35	---	150-84-5
1,1-Dimethyl-2-phenyl-ethyl acetate *	4.19	---	151-05-3
2,5 Dimethylpyrazine *	4.20	---	123-32-0
2,6-Dimethylpyrazine *	4.21	---	108-50-9
Dimethyl sulfide *	4.22	5	75-18-3
Dipentene *	4.23	37.5	138-86-3
Diphenyl ketone	2.39	5	119-61-9
Dipropyl ketone	8.2	30	123-19-3
Disodium Inosinate/Disodium Guanylate	18.5	1%	80702-47-2
<i>delta</i> -Dodecalactone	4.25	40	713-95-1
Dodecanal *	4.29	7	112-54-9
Dodecanoic acid *	4.30	200	143-07-7
Dodecan-1-ol *	4.24	10	112-53-8
1,5-Dodecanolactone *	4.25	40	713-95-1
Dodecanyl acetate	4.26	5	112-66-3
Dodecyl acetate *	4.26	5	112-66-3
Dodecyl alcohol	4.24	10	112-53-8
Dried krill meal	11.1	GMP	--- --
-E-			
Elderberry juice concentrate *	5.34	GMP	--- --
1,8-Epoxy- <i>p</i> menthane *	5.1	5	470-82-6
Ethanal	1.1	10	75-07-0
Ethone	13.28	15	122-51-0
3-Ethoxy-4-hydroxy-benzaldehyde *	5.2	---	121-32-4
2-Ethoxy naphthalene *	5.3	---	93-18-5
2-Ethoxy-5-propenyl phenol	16.37	20	94-86-0
Ethyl acetate *	5.4	625	141-78-6
Ethyl acetoacetate *	5.5	50	141-97-9
Ethyl acrylate *	5.6	1	140-88-5
Ethyl <i>o</i> -aminobenzoate	5.7	20	87-25-2

Ethyl anisate *	5.35	0.5	94-30-4
Ethyl anthranilate *	5.7	20	87-25-2
Ethyl benzoate *	5.9	10	93-89-0
Ethyl benzoylacetate *	5.8	---	94-02-0
<i>alpha</i> -Ethyl-benzyl alcohol	16.30	---	93-54-9
Ethyl butanoate	5.10	375	105-54-4
Ethyl butyrate *	5.10	375	105-54-4
Ethyl butyrolactone	8.12	5	695-06-7
Ethyl caprate	5.29	10	110-38-3
Ethyl caproate	5.14	40	123-66-0
Ethyl caprylate	5.22	50	106-32-1
Ethyl cinnamate *	5.11	10	103-36-6
Ethyl decanoate *	5.29	10	110-38-3
2-Ethyl-3,(5 or 6) dimethyl pyrazine	5.18	5	13925-07-0
Ethyl dodecanoate *	5.30	---	106-33-2
Ethyl formate *	5.12	75	109-94-4
Ethyl heptanoate *	5.13	62.5	106-30-9
Ethyl hexadecanoate *	5.31	---	628-97-7
Ethyl hexanoate *	5.14	40	123-66-0
Ethyl <i>o</i>-hydroxybenzoate	5.26	15	118-61-6
2-Ethyl-3-hydroxy-4-pyrone	5.15	50	4940-11-8
Ethyl isovalerate *	5.16	30	108-64-5
Ethyl <i>beta</i>-ketobutyrate	5.5	50	141-97-9
Ethyl lactate *	5.17	125	97-64-3
Ethyl laurate	5.30	---	106-33-2
Ethyl levulate	5.33	2	539-88-8
Ethyl levulinate *	5.33	2	539-88-8
Ethyl malonate	4.6	15	105-53-3
Ethyl maltol	5.15	50	4940-11-8
Ethyl <i>p</i>-methoxybenzoate	5.35	0.5	94-30-4
Ethyl 2-methyl butyrate	5.19	5	7452-79-1

2-Ethyl-3-methyl pyrazine	5.20	---	15707-23-0
Ethyl methyl ketone	2.24	---	78-93-3
Ethyl myristate	5.36	1	124-06-1
Ethyl nonanoate *	5.21	62.5	123-29-5
Ethyl octanoate *	5.22	50	106-32-1
Ethyl oenanthate	5.13	65	106-30-9
Ethyl oleate *	5.32	---	111-62-6
Ethyl-3-oxobutanoate	5.5	50	141-97-9
Ethyl 4-oxopentanoate	5.33	2	539-88-8
Ethyl palmitate	5.31	---	628-97-7
Ethyl pelargonate	5.21	62.5	123-29-5
Ethyl phenyl acetate *	5.23	50	101-97-3
Ethyl 3-phenylglycidate	5.24	2.3	121-39-1
Ethyl propenoate	5.6	1	140-88-5
Ethyl propionate *	5.25	80	105-37-3
Ethyl protal	5.2	---	121-32-4
Ethyl salicylate *	5.26	15	118-61-6
Ethyl sebacate	4.27	10	110-40-7
Ethyl succinate	4.7	50	123-25-1
Ethyl tetradecanoate *	5.36	1	124-06-1
Ethyl <i>n</i> -valerate *	5.27	---	539-82-2
Ethyl vanillin	5.2	250T (5.2;22.4;22.5)	121-32-4
Eucalyptol	5.1	5	470-82-6
<i>Eucalyptus Globulus</i> , oil	5.37	1	8000-48-4
Eucalyptus oil *	5.37	1	8000-48-4
<i>Eugenia caryophyllus</i> oil	3.17	<62.5 Eugenol	8000-34-8
<i>Eugenia caryophyllus</i> powder	3.25	<62.5 Eugenol	-- -- --
Eugenol *	5.28	62.5	97-53-0
-F-			
Fenchol	6.6	2	1632-73-1

Fenchyl alcohol *	6.6	2	1632-73-1
Fennel	6.1	<62.5 Anethole	8006-84-6
Fennel seeds *	6.1	<62.5 Anethole	8006-84-6
Fennel terpenes *	6.8	5	-- -- --
Fenugreek oleoresin *	6.2	<62.5 Anethole	68990-15-8
Fenugreek seed, extract *	6.4	<62.5 Anethole	68990-15-8
Fenugreek seeds *	6.3	<62.5 Anethole	68990-15-8
Florentine Orris concrete *	6.7	GMP	8002-73-1
<i>Foeniculum vulgare</i> seeds	6.1	<62.5 Anethole	8006-84-6
Fusel oil, refined *	6.5	30	8013-75-0
-G-			
Garlic *	7.1	GMP	-- -- --
Garlic, oil *	7.2	GMP	8000-78-0
<i>Gaultheria procumbens</i> L. oil	23.1	GMP	119-36-8
Geranial	3.16	12.5	5392-40-5
Geraniol *	7.3	12.5	106-24-1
Geranium oil	7.15	GMP	8000-46-2
Geranium, rose, oil *	7.15	GMP	8000-46-2
Geraniol acetate	7.4	12.5	105-87-3
Geraniol formate	7.6	30	105-86-2
Geranyl acetate *	7.4	12.5	105-87-3
Geranyl butyrate *	7.5	10	106-29-6
Geranyl formate *	7.6	30	105-86-2
Geranyl isobutyrate	4.18	---	2345-26-8
Geranyl isovalerate *	7.7	10	109-20-6
Geranyl propionate *	7.8	---	105-90-8
Geranyl valerate *	7.9	---	10402-47-8
Ginger, oleoresin *	7.10	GMP	8007-08-7
Ginger, oil *	7.17	GMP	8007-08-7
Ginger tubers dehydrated *	7.11	GMP	-- -- --
Ginger, <i>Zingibar officinale</i> Rosc. tubers dehydrated	7.11	GMP	-- -- --

Glycoline	4.20	---	123-32-0
Glycyrrhiza *	7.12	GMP	68916-91-6
Glycyrrhiza extract powder *	7.13	GMP	8008-94-4
<i>Glycyrrhiza glabra</i> L. extract powder	7.13	GMP	8008-94-4
Grapefruit extract condensed *	7.16	GMP	--- --
Grape juice concentrate *	7.18	GMP	--- --
Guaiacol *	7.14	0.5	90-05-1
-H-			
Heliotropine	16.34	62.5	120-57-0
Hemlock, oil *	8.1	GMP	8008-80-8
<i>gamma</i> -Heptalactone	8.5	---	105-21-5
Heptan-2-one *	8.4	30	110-43-0
Heptan-4-one *	8.2	30	123-19-3
4-Heptanone	8.2	30	123-19-3
1,4-Heptanolactone *	8.5	---	105-21-5
<i>cis</i> -4-Heptenal	8.3	---	6728-31-0
<i>cis</i> -Hept-4-enal *	8.3	---	6728-31-0
Heptyl acetate *	8.6	5	112-06-1
<i>gamma</i> -Hexalactone	8.12	5	695-06-7
Hexan-1-ol	8.15	30	111-27-3
Hexanal *	8.7	---	66-25-1
Hexane 2,3-dione *	8.9	5	3848-24-6
<i>n</i> -Hexanoic acid *	8.10	10	142-62-1
1-Hexanol	8.15	30	111-27-3
1,4-Hexanolactone *	8.12	5	695-06-7
<i>trans</i> -2-Hexenal *	8.8	10	6728-26-3
<i>trans</i> -Hex-2-enal	8.8	10	6728-26-3
Hex-3-enal *	8.11	---	6789-80-6
<i>cis</i> -3-Hexenal	8.11	---	6789-80-6
<i>beta gamma</i> Hexenol *	2.10	20	928-96-1
Hex-2-en-1-ol *	8.13	5	928-95-0

2-Hexen-1-ol	8.13	5	928-95-0
<i>trans</i> -2-Hexenol	8.13	5	928-95-0
Hex-3-en-1-ol *	2.10	20	928-96-1
3-Hexen-1-ol	2.10	20	928-96-1
<i>cis</i> -3-Hexenol	2.10	20	928-96-1
Hexoic aldehyde	8.7	---	66-25-1
<i>n</i> -Hexyl alcohol *	8.15	30	111-27-3
Hexyl acetate *	8.14	50	108-84-9
Hexyl caproate	8.16	---	6378-65-0
Hexyl capronate	8.16	---	6378-65-0
Hexyl hexanoate *	8.16	---	6378-65-0
Hydrocinnamaldehyde	16.29	---	104-53-0
Hydrocinnamic alcohol	16.31	---	122-97-4
Hydrolyzed vegetable protein *	8.19	GMP	--- --
<i>o</i> -Hydroxyanisole	7.14	---	90-05-1
<i>p</i> -Hydroxy benzylacetone	8.17	70	5471-51-2
Hydroxy-citronellal	8.20	---	107-75-5
4-Hydroxy-2,5-dimethyl-furan-3-one	4.16	5	3658-77-3
7-Hydroxy-3,7-dimethyl-octanal *	8.20	---	107-75-5
4(4-Hydroxy-3-methoxyphenyl)-2- butanone	26.1	10	122-48-5
3-Hydroxy-2-methyl-4 pyrone	13.2	50	118-71-8
4(<i>p</i>-Hydroxy-phenyl)-butan-2-one *	8.17	70	5471-51-2
-I-			
<i>Illicium verum</i> H. oil	1.12	<62.5 Anethole	8007-70-3
Indole *	9.1	0.5	120-72-9
<i>alpha</i> -Ionone *	9.2	12.5	127-41-3
<i>beta</i> -Ionone *	9.3	12.5	79-77-6
Isoamyl acetate	9.8	500	123-92-2
Isoamylamine	9.20	1	107-85-7
Isoamyl butyrate *	9.17	75	106-27-4
Isoamyl formate	9.9	---	110-45-2

Isoamyl isovalerate	9.10	60	659-70-1
Isoamyl methyl ketone	13.14	---	110-12-3
Isoamyl propionate	9.11	---	105-68-0
Isoamyl salicylate	9.12	4	87-20-7
Isobornyl acetate *	9.4	5	125-12-2
Isobutyl acetate *	9.5	---	110-19-0
Isobutyl benzyl ketone	13.18	---	5349-62-2
Isobutyl formate *	9.18	20	542-55-2
Isobutyl phenylacetate *	9.6	5	102-13-6
Isobutyraldehyde *	9.7	1	78-84-2
Isobutyric acid *	9.14	40	79-31-2
Isoeugenol *	9.19	30	97-54-1
Isoeugenyl methyl ether	4.13	30	93-16-3
Isopentyl acetate *	9.8	500	123-92-2
Isopentylamine *	9.20	1	107-85-7
Isopentyl butyrate	9.17	75	106-27-4
Isopentyl formate *	9.9	---	110-45-2
Isopentyl isovalerate *	9.10	60	659-70-1
Isopentyl propionate *	9.11	---	105-68-0
Isopentyl salicylate *	9.12	4	87-20-7
Isopropyl acetate *	9.21	70	108-21-4
4-Isopropyl benzaldehyde *	9.13	15	122-03-2
Isovaleraldehyde *	9.15	---	590-86-3
Isovaleric acid *	9.16	15	503-74-2
-J-			
Juniperberry	10.2	GMP	--- --
Juniper oil *	10.1	GMP	8002-68-4
Juniperberry powder	10.2	GMP	--- --
<i>Juniperus communis</i> L. fruit dehydrated, ground *	10.2	GMP	--- --
<i>Juniperus communis</i> L. oil	10.1	GMP	8002-68-4
-K-			

Ketine	4.20	---	123-32-0
Krill, whole, dehydrated, ground *	11.1	GMP	--- --
Krill, whole, pasteurized *	11.2	GMP	--- --
-L-			
Labdanum, resin *	12.9	0.5	8016-26-0
<i>Labdanum ciste</i> , resin	12.9	0.5	8016-26-0
Lauric acid	4.30	200	143-07-7
Lauric aldehyde	4.29	7	112-54-9
Lauryl acetate	4.26	5	112-66-3
Lauryl alcohol	4.24	10	112-53-8
Leaf alcohol	2.10	20	928-96-1
Lemon juice concentrate *	12.12	GMP	--- --
Lemon, oil *	12.1	<37.5 Limonene	8008-56-2
Lemon, oil, terpenes *	12.8	<37.5 Limonene	--- --
<i>Levisticum officinale</i> K. Root oil	12.7	GMP	8016-31-7
Licorice extract powder	7.13	GMP	8008-94-4
Licorice, <i>Glycyrrhiza glabra</i> L.	7.12	GMP	68916-91-6
Lime, oil *	12.2	<37.5 Limonene	8008-26-2
Lime, oil terpenes *	12.10	GMP	--- --
<i>d</i> -Limonene	12.13	37.5	5989-27-5
<i>dl</i> -Limonene	4.23	37.5	138-86-3
Linalool *	12.3	12.5	78-70-6
Linalool formate	12.5	---	115-99-1
Linalyl acetate *	12.4	12.5	115-95-7
Linalyl butyrate *	12.11	15	78-36-4
Linalyl formate *	12.5	---	115-99-1
Linalyl propionate *	12.6	10	144-39-8
<i>Liquidambar orientalis</i> Mills resinoid	19.3	GMP	1401-55-4
<i>Liquidambar styraciflua</i> L. resinoid	19.3	GMP	1401-55-4
Locust bean oil	3.5	GMP	9000-40-2
Lovage root oil *	12.7	GMP	8016-31-7

Lucerne extract	1.16	GMP	--- --
-M-			
Mace, oil *	13.1	GMP	8007-12-3
Maltol *	13.2	50	118-71-8
Mandarin oil *	13.3	GMP	8008-31-9
Marjoram, sweet *	13.4	GMP	--- --
<i>Marjorana hortensis</i> M.	13.4	GMP	--- --
Marsh mallow root	13.24	GMP	--- --
Marshmallow root powder *	13.24	GMP	--- --
<i>Matricaria chamomilla</i> flower dehydrated ground	3.37	GMP	--- --
<i>Medicago sativa</i> L. extract	1.16	GMP	99999-19-5
Melonal®	4.15	10	106-72-9
<i>p</i> -Ment-1-en-4-ol	20.13	50	562-74-3
<i>Mentha arvensis</i> L. oil	3.20	8	68917-18-0
<i>d-p</i> -Mentha-1,8-diene	12.13	37.5	5989-27-5
<i>p</i> -Mentha-1,8-diene	4.23	37.5	138-86-3
<i>p</i> -Mentha-1,5-diene	16.22	130	99-83-2
<i>p</i> -Mentha-6, 8-dien-2-one	3.6	---	2244-16-8
<i>Mentha piperita</i> L.	16.19	GMP	--- --
<i>Mentha piperita</i> L. oil	16.20	GMP	8006-90-4
<i>Mentha spicata</i> Houds oil	19.5	GMP	8008-79-5
<i>p</i> -Menth-1-en-8-yl acetate	20.2	40	80-26-2
Menthol	13.25	5	89-78-1
<i>l</i> -and <i>dl</i> -Menthol *	13.25	5	89-78-1
Methane thiol <i>n</i> -butyrate	13.20	---	2432-51-1
<i>p</i> -Methoxybenzaldehyde	1.11	50	123-11-5
<i>p</i> -Methoxybenzyl acetate	1.14	15	104-21-2
<i>p</i> -Methoxybenzyl alcohol	1.18	20	105-13-5
<i>p</i> -Methoxybenzyl formate	1.19	15	104-01-8
Methoxy cinnamaldehyde	13.27	10	1504-74-1
2-Methoxy cinnamic aldehyde *	13.27	10	1504-74-1

<i>o</i> -Methoxy cinnamic aldehyde	13.27	10	1504-74-1
<i>o</i> -Methoxyphenol	7.14	0.5	90-05-1
4-(<i>p</i> -Methoxyphenyl) butan-2-one *	13.5	20	104-20-1
1-(4-Methoxyphenyl) pent-1-en-3-one *	13.28	15	122-51-0
2-Methoxy-4-propenyl phenol	9.19	30	97-54-1
4-Methoxytoluene *	13.29	5	104-93-8
2-Methoxy-4-vinylphenol *	13.6	1	7786-61-0
Methyl acetaldehyde	16.44	1	123-38-6
<i>p</i> -Methylacetophenone *	13.7	5	122-00-9
4-Methylacetophenone	13.7	5	122-00-9
Methyl amyl ketone	8.4	30	110-43-0
<i>p</i> -Methylanisole	13.29	5	104-93-8
Methyl anthranilate *	13.8	37.5	134-20-3
2-Methyl butanoic acid	13.9	---	116-53-0
2-Methyl butan-2-ol *	13.30	2	75-85-4
3-Methyl butyraldehyde	9.15	---	590-86-3
2-Methyl butyric acid *	13.9	---	116-53-0
Methyl cinnamate *	13.11	10	103-26-4
6-Methyl coumarin *	13.12	40	92-48-8
Methyl cyclopentenolone	3.28	50	80-71-1
Methyl disulfide	4.14	1	624-92-0
methyl disulphide	4.14	1	624-92-0
Methyl ethyl ketone	2.24	---	78-93-3
Methyl heptine carbonate	13.17	5	111-12-6
Methyl heptyl ketone	14.5	5	821-55-6
5-Methylhexan-2-one *	13.14	---	110-12-3
Methyl hexyl ketone *	13.15	5	111-13-7
Methyl <i>alpha</i> -ionone	13.33	5	1322-70-9
Methyl <i>beta</i> -ionone	13.34	5	127-43-5
Methyl isobutyrate *	13.31	200	547-63-7
<i>o</i> -Methyl isoeugenol	4.13	30	93-16-3

Methyl <i>beta</i>-mercaptopropionaldehyde	13.21	1	3268-49-3
Methyl-<i>N</i>-methyl anthranilate *	13.32	5	85-91-6
Methyl <i>beta</i>-naphthyl ketone	1.3	5	93-08-3
Methyl non-2-ynoate *	13.16	1	111-80-8
Methyl nonyl ketone	21.2	5	112-12-9
Methyl oct-2-ynoate *	13.17	5	111-12-6
Methyl octine carbonate	13.16	1	111-80-8
Methyl octyne carbonate	13.16	1	111-80-8
Methyl phenylacetate	13.35	5	101-41-7
Methyl phenyl ketone	1.4	10	98-86-2
4-Methyl-1-phenyl-2-pentanone *	13.18	---	5349-62-2
2-Methylpropanal	9.7	1	78-84-2
2-Methylpropanoic acid	9.14	40	79-31-2
2-Methyl propanoic acid methyl ester	13.31	200	547-63-7
Methyl propyl ketone	16.41	10	107-87-9
Methyl-2-pyridyl ketone	1.5	3	1122-62-9
Methyl salicylate *	13.19	12.5	119-36-8
Methyl sulfide	4.22	5	75-18-3
Methyl thiobutyrate *	13.20	---	2432-51-1
3-Methylthiopropionaldehyde *	13.21	1	3268-49-3
Methyl <i>alpha</i>-toluate	13.35	5	101-41-7
<i>o</i>-Methylvanillin	22.5	30	120-14-9
Mimosa	2.31	0.17	-- -- --
Mixed amyl alcohols	6.5	30	8013-75-0
Molasses extract	19.4	GMP	-- -- --
Monosodium glutamate *	13.22	GMP	142-47-2
Musk ambrette *	13.23	1	123-69-3
Myristaldehyde	20.10	8	124-25-4
Myristic acid	20.14	10	544-63-8
<i>Myristica fragans</i> Houtt. oil	14.3	1	8008-45-5
<i>Myristica fragans</i> H. <i>arillodes</i> oil	13.1	GMP	8007-12-3

<i>Myroxylon balsanum</i> L. Harms., extract	2.38	GMP	9000-64-0
<i>Myroxylon pereira</i> extract	2.1	GMP	8007-00-9
<i>Myroxylon pereira</i> oil	2.2	8	8007-00-9
-N-			
β -Naphthyl ethyl ether	5.3	---	93-18-5
<i>beta</i> -Naphthylmethyl ketone	1.3	5	93-08-3
Neral	3.16	12.5	5392-40-5
Neroli extract *	14.6	GMP	-- -- --
<i>Nerolin</i>	5.3	---	93-18-5
<i>gamma</i> -Nonalactone *	14.2	32	104-61-0
<i>n</i> -Nonanal *	14.1	1.5	124-19-6
Nonan-1-ol *	14.4	2	143-08-8
Nonan-2-one *	14.5	2	821-55-6
Nonyl alcohol	14.4	2	143-08-8
Nutmeg, oil *	14.3	1	8008-45-5
-O-			
<i>gamma</i> -Octalactone	15.4	30	104-50-7
<i>n</i> -Octalactone	15.4	30	104-50-7
<i>n</i> -Octanal *	15.1	1.5	124-13-0
Octanoic acid *	15.2	50	124-07-2
Octan-1-ol *	15.3	5	111-87-5
1,4-Octanolactone *	15.4	30	104-50-7
2-Octanone	13.15	5	111-13-7
1-Octen-3-ol *	15.5	---	3391-86-4
<i>n</i> -Octyl alcohol	15.3	5	111-87-5
Oenanthic ether	5.13	65	106-30-9
Oil of banana	2.26	GMP	-- -- --
Oil of clove	3.17	<62.5 eugenol	8000-34-8
Oil of <i>Musa</i> spp.	2.26	GMP	-- -- --
Oil of Spruce	8.1	GMP	8008-80-8
Onion, oil *	15.6	GMP	8002-72-0

Orange juice concentrate *	15.10	GMP	-- -- --
Orange, oil *	15.7	<37.5 Limonene	8008-57-9
Orange, oil, terpenesless *	15.9	<37.5 Limonene	8008-57-9
Orange, oil, terpenes *	15.8	<37.5 Limonene	-- -- --
Orris oil	6.7	GMP	8002-73-1
-P-			
Paprika	3.1	GMP	8023-77-6
Paprika oleoresin	3.29	GMP	8023-77-6
Peach aldehyde	21.1	31.25	104-67-6
Peach juice concentrated *	16.40	GMP	-- -- --
<i>Pelargonium graveolens</i> oil	7.15	GMP	8000-46-2
Pelargonium oil	7.15	GMP	8000-46-2
<i>omega</i>-Pentadecalactone *	16.1	1	106-02-5
Pentadecanolide	16.1	1	106-02-5
2,3-Pentanedione *	16.2	20	600-14-6
Pentanoic acid	22.1	20	109-52-4
Pentan-2-one *	16.41	10	107-87-9
2-Pentanone	16.41	10	107-87-9
Pentyl acetate *	16.3	100	628-63-7
Pentyl benzoate *	16.4	---	2049-96-9
Pentyl butyrate *	16.5	10	540-18-1
Pentyl caproate	16.9	20	540-07-8
<i>alpha</i>-Pentyl cinnamaldehyde *	16.6	5	1331-92-6
Pentyl cinnamate *	16.7	---	3487-99-8
Pentyl formate *	16.8	30	638-49-3
Pentyl hexanoate *	16.9	20	540-07-8
Pentyl isovalerate *	16.10	30	25415-62-7
Pentyl phenylacetate *	16.11	5	102-19-2
Pentyl propionate *	16.12	70	624-54-4
Pentyl salicylate *	16.13	---	2050-08-0
Pentyl valerate *	16.14	50	2173-56-0

Pepper, black *	16.15	GMP	--- --
Pepper, black, oil *	16.16	GMP	--- --
Pepper, black,oleoresin *	16.17	GMP	--- --
Pepper, tabasco *	16.18	GMP	8023-77-6
Peppermint *	16.19	GMP	--- --
Peppermint, oil *	16.20	GMP	8006-90-4
Peru Balsam extract	2.1	GMP	8007-00-9
Petitgrain, oil *	16.21	GMP	8014-17-3
<i>alpha</i> -Phellandrene *	16.22	130	99-83-2
Phenethyl cinnamate	16.43	5	103-53-7
Phenyl acetaldehyde *	16.42	5	122-78-1
Phenyl acetaldehyde dimethyl acetal	4.28	1	101-48-4
Phenylacetic acid *	16.23	30	103-82-2
4-Phenyl-3- buten-2-one *	16.24	2	122-57-6
Phenyl carbinol	2.5	125	100-51-6
2-Phenyl ethanol *	16.25	20	60-12-8
2-Phenyl ethyl acetate *	16.26	5	103-45-7
Phenyl ethyl acetate	16.26	5	103-45-7
2-Phenyl ethyl alcohol	16.25	20	60-12-8
2-Phenyl ethyl cinnamate *	16.43	5	103-53-7
Phenylethyl carbinol	16.30	---	93-54-9
2-Phenyl ethyl phenyl acetate *	16.27	---	102-20-5
2-Phenyl ethyl propionate *	16.28	---	122-70-3
1-Phenylpropan-1-ol *	16.30	---	93-54-9
3-Phenylpropan-1-ol *	16.31	---	122-97-4
3-Phenyl propionaldehyde *	16.29	---	104-53-0
3-Phenyl propyl alcohol	16.31	---	122-97-4
<i>Pimenta dioica</i> oil	16.32	GMP	8006-77-7
Pimenta, oil *	16.32	GMP	8006-77-7
<i>Pimpinella anisum</i> L. seeds	1.13	< 1 Safrole <62.5 Anethole	99999-27-4

Pineapple juice concentrate *	16.45	GMP	-- -- --
Pin-2-ene *	16.33	40	80-56-8
<i>alpha</i> -Pinene	16.33	40	80-56-8
<i>Piper nigrum</i> L. leaves and twigs	16.15	GMP	-- -- --
<i>Piper nigrum</i> L. oil	16.16	GMP	-- -- --
<i>Piper nigrum</i> L. oleoresin	16.17	GMP	-- -- --
Piperonal	16.34	62.5	120-57-0
Piperonaldehyde *	16.34	62.5	120-57-0
Propanal	16.44	1	123-38-6
Propan-1-ol *	16.35	---	71-23-8
Prop-2-enethiol *	16.36	2	870-23-5
Propenylguaethol *	16.37	20	94-86-0
2-Propenyl <i>n</i>-hexanoate	1.8	3	123-68-2
Propionaldehyde *	16.44	1	123-38-6
Propyl acetate *	16.38	15	109-60-4
<i>n</i> -Propyl alcohol	16.35	---	71-23-8
Propyl aldehyde	16.44	1	123-38-6
Propyl benzoate *	16.39	---	2315-68-6
Pyruvic acid *	16.46	30	127-17-3
-Q-			
Quassia	17.1	5	68915-32-2
<i>Quassia amara</i> L. Wood *	17.1	5	68915-32-2
Quillaia extract *	17.2	200 (or 0.02%)	99999-24-6
<i>Quillaia Saponaria</i> Molina	17.2	200 (or 0.02%)	99999-24-6
-R-			
Raspberry ketone methyl ether	13.5	20	104-20-1
Red pepper oleoresin	3.29	GMP	8023-77-6
Rhodinol *	18.1	12.5	141-25-3
Ribotide *	18.5	1%	80702-47-2
Rosemary oil *	18.4	GMP	8000-25-7
<i>Rosemarinus officinalis</i> L. oil	18.4	GMP	8000-25-7

Rose oil Bulgarian	18.3	GMP	8007-01-0
Rosewood oil	2.12	GMP	-- -- --
Rum extractives *	18.2	625 (acetates) 75 (butyrates)	--- --
-S-			
Sage *	19.1	GMP	-- -- --
Sage oil *	19.6	<0.5 Thujone	8022-56-8
<i>Salva officinalis</i> L.	19.1	GMP	-- -- --
<i>Salva officinalis</i>,oil	19.6	<0.5 Thujone	8022-56-8
Skatole *	19.2	1	83-34-1
Soap bark tree	17.2	GMP	99999-24-6
Spearmint, oil *	19.5	GMP	8008-79-5
St. John's bread	3.5	GMP	9000-40-2
Storax resinoid *	19.3	GMP	1401-55-4
Styrax resinoid	19.3	GMP	1401-55-4
Sugarcane molasses,extract,condensed *	19.4	GMP	-- -- --
Sweet birch leaves	2.23	12.5	-- -- --
-T-			
Tangerine oil	13.3	GMP	8008-31-9
Terpinen-4-ol	20.13	50	562-74-3
4-Terpinenol *	20.13	50	562-74-3
<i>alpha</i>-Terpineol *	20.1	25	2438-12-2
Terpinyl acetate *	20.2	40	80-26-2
Tetradecanal *	20.10	8	124-25-4
Tetradecanoic acid *	20.14	10	544-63-8
5,6,7,8-Tetra-hydroquinoxaline *	20.3	---	34413-35-9
2,3,5,6-Tetramethyl pyrazine *	20.15	5	1124-11-4
<i>Theobroma cacao</i> L. powder	3.18	GMP	-- -- --
Thibetolide	16.1	1	106-02-5
Thienylpyrimidine	4.9	0.5	36267-71-7
Thyme *	20.4	GMP	8007-46-3

Thyme, oil *	20.5	GMP	8007-46-3
Thyme, wild, powder *	20.12	GMP	-- -- --
Thymol *	20.11	5	89-83-8
<i>Thymus vulgaris</i>	20.4	GMP	8007-46-3
<i>Thymus vulgaris</i> oil	20.5	GMP	8007-46-3
<i>Thymus serpyllum</i> L., aerial part dehydrated, ground (serpolet)	20.12	GMP	-- -- --
<i>Thymus zygis</i>	20.4	GMP	8007-46-3
<i>Thymus zygis</i> oil	20.5	GMP	8007-46-3
Tolualdehydes (mixed o,m,p, isomers) *	20.7	30	1334-78-7
<i>alpha</i> -Toluic acid	16.23	30	103-82-2
<i>p</i> -Tolyl acetate *	20.6	---	140-39-6
Tolyl aldehydes	20.7	30	1334-78-7
<i>p</i> -Tolyl methyl ether	13.29	5	104-93-8
<i>Trigonella foenum-graecum</i> L.,oleoresin	6.2	<62.5 Anethole	68990-15-8
<i>Trigonella foenum-graecum</i> L. seeds,extract	6.4	<62.5 Anethole	68990-15-8
<i>Trigonella foenum-graecum</i> L. seeds	6.3	<62.5 Anethole	68990-15-8
4-(2,6,6-Trimethyl-1-cyclohex-1-enyl) -but-3-en-2-one	9.3	12.5	79-77-6
4-(2,6,6-Trimethyl-2-cyclohex-1-enyl)- -but-3-en-2-one	9.2	12.5	127-41-3
1,3,3-Trimethyl-2-norbornanol	6.6	2	1195-73-1
2,3,5-Trimethyl pyrazine *	20.9	1	14667-55-1
<i>Tsuga canadensis</i> L. oil	8.1	GMP	8008-80-8
<i>Tsuga heterophylla</i> oil	8.1	GMP	8008-80-8
Turmeric oleoresin *	20.17	GMP	8024-37-1
-U-			
<i>gamma</i> -Undecalactone *	21.1	31.25	104-67-6
Undecan-2-one *	21.2	5	112-12-9
10-Undecen-1-al *	21.3	5	112-45-8
10-Undecenal	21.3	5	112-45-8
Undec-10-enal	21.3	5	112-45-8

10-Undecylenic aldehyde	21.3	5	112-45-8
2-Undecanone	21.2	5	112-12-9
-V-			
<i>n</i> -Valeric acid *	22.1	20	109-52-4
Vanilla	22.3	GMP	8024-06-4
Vanilla, oleoresin *	22.2	GMP	8024-06-4
<i>Vanilla planifolia</i>	22.3	GMP	8024-06-4
<i>Vanilla planifolia</i> oleoresin	22.2	GMP	8024-06-4
Vanilla pods with seeds, boiled, dehydrated,immature *	22.3	GMP	8024-06-4
Vanillin *	22.4	250T (5.2;22.4;22.5)	121-33-5
Veratraldehyde *	22.5	30	120-14-9
4-Vinyl guaiacol	13.6	1	7786-61-0
-W-			
Whole krill	11.2	GMP	--- --
Wintergreen oil *	23.1	12.5	119-36-8
-Y-			
Ylang-Ylang oil *	25.3	0.01	8006-81-3
-Z-			
<i>Zingibar officinale</i> Rosc.oleoresin	7.10	GMP	8007-08-7
Zingerone	26.1	10	122-48-5

**INDEX
SCHEDULE V - PART II**

INGREDIENT NAME	ITEM	MAX LIMIT (PPM)	CAS #
Liquid smoke	12.1	GMP	--- --