ANNEX

The Annex I to Directive 2008/84/EC is amended as follows:

1. The text concerning E 234 nisin is replaced by the following:

| Definition | Nisin consists of several closely related polypeptides produced during the fermentation of a milk or sugar medium by certain natural strains of <i>Lactococcus</i> <i>lactis subsp.lactis</i> | |
|------------------|---|--|
| Einecs | 215-807-5 | |
| Chemical formula | $C_{143}H_{230}N_{42}O_{37}S_7$ | |
| Molecular weight | 3 354,12 | |
| Assay | Nisin concentrate contains not less than 900 units per mg in a mixture of non- fat milk proteins or fermented solids and a minimum sodium chloride content of 50 % | |
| Description | White powder | |
| Purity | | |
| Loss on drying | Not more than 3 % when dried to constant weight at 102 °C to 103 °C | |
| Arsenic | Not more than 1 mg/kg | |
| Lead | Not more than 1 mg/kg | |
| Mercury | Not more than 1 mg/kg | |

E 234 NISIN

2. The text concerning E 400 alginic acid is replaced by the following:

E 400 ALGINIC ACID

| Definition | Linear glycuronoglycan consisting mainly of β -(1-4) linked D-mannuronic and α -(1-4) linked L-guluronic acid units in pyranose ring form. Hydrophilic colloidal carbohydrate extracted by the use of dilute alkali from natural strains of various species of brown seaweeds (<i>Phaeophyceae</i>) |
|------------------|---|
| Einecs | 232-680-1 |
| Chemical formula | (C ₆ H ₈ O ₆) _n |
| Molecular weight | 10 000-600 000 (typical average) |

| Assay | | Alginic acid yields, on the anhydrous basis, not less than 20 % and not more than 23 % of carbon dioxide (CO ₂), equivalent to not less than 91 % and not more than 104,5 % of alginic acid (C ₆ H ₈ O ₆) _n (calculated on equivalent weight basis of 200) |
|---------|---|---|
| Descrip | otion | Alginic acid occurs in filamentous, grainy, granular and powdered forms. It is a white to yellowish brown and nearly odourless |
| Identi | fication | |
| А. | Solubility | Insoluble in water and organic solvents, slowly soluble in solutions of sodium carbonate, sodium hydroxide and trisodium phosphate |
| B. | Calcium chloride precipitation test | To a 0,5 % solution of the sample in 1 M sodium hydroxide solution, add one fifth of its volume of a 2,5 % solution of calcium chloride. A voluminous, gelatinous precipitate is formed. This test distinguishes alginic acid from acacia gum, sodium carboxymethyl cellulose, carboxymethyl starch, carrageenan, gelatin, gum ghatti, karaya gum, locust bean gum, methyl cellulose and tragacanth gum |
| C. | Ammonium sulphate precipitation test | To a 0,5 % solution of the sample in 1 M sodium hydroxide solution, add one half of its volume of a saturated solution of ammonium sulphate. No precipitate is formed. This test distinguishes alginic acid from agar, sodium carboxymethyl cellulose, carrageenan, de-esterified pectin, gelatin, locust bean gum, methyl cellulose and starch |
| D. | Colour reaction | Dissolve as completely as possible 0,01 g of the sample by shaking with 0,15 ml of 0,1 N sodium hydroxide and add 1 ml of acid ferric sulphate solution. Within 5 minutes, a cherry-red colour develops that finally becomes deep purple |
| Purity | · | · |
| pH of a | 3 % suspension | Between 2,0 and 3,5 |
| Loss or | n drying | Not more than 15 % (105 °C, 4 hours) |
| Sulphat | ted ash | Not more than 8 % on the anhydrous basis |

| Sodium hydroxide (1 M solution) | Not more than 2 % on the anhydrous basis insoluble matter |
|---------------------------------|---|
| Formaldehyde | Not more than 50 mg/kg |
| Arsenic | Not more than 3 mg/kg |
| Lead | Not more than 5 mg/kg |
| Mercury | Not more than 1 mg/kg |
| Cadmium | Not more than 1 mg/kg |
| Total plate count | Not more than 5 000 colonies per gram |
| Yeast and moulds | Not more than 500 colonies per gram |
| E. coli | Absent in 5 g |
| Salmonella spp. | Absent in 10 g |

3. The text concerning E 401 sodium alginate is replaced by the following:

E 401 SODIUM ALGINATE

| Definition | |
|---|--|
| Chemical name | Sodium salt of alginic acid |
| Chemical formula | (C ₆ H ₇ NaO ₆) _n |
| Molecular weight | 10 000-600 000 (typical average) |
| Assay | Yields, on the anhydrous basis, not less than 18 % and not more than 21 % of carbon dioxide corresponding to not less than 90,8 % and not more than 106,0 % of sodium alginate (calculated on equivalent weight basis of 222) |
| Description | Nearly odourless, white to yellowish fibrous or granular powder |
| Identification | |
| Positive test for sodium and alginic acid | |
| Purity | |
| Loss on drying | Not more than 15 % (105 °C, 4 hours) |
| Water-insoluble matter | Not more than 2 % on the anhydrous basis |
| Formaldehyde | Not more than 50 mg/kg |
| Arsenic | Not more than 3 mg/kg |
| Lead | Not more than 5 mg/kg |
| Mercury | Not more than 1 mg/kg |
| Cadmium | Not more than 1 mg/kg |
| Total plate count | Not more than 5 000 colonies per gram |

| Yeast and moulds | Not more than 500 colonies per gram |
|------------------|-------------------------------------|
| E. coli | Absent in 5 g |
| Salmonella spp. | Absent in 10 g |

4. The text concerning E 402 potassium alginate is replaced by the following:

| E 402 POTASSIUM | ALGINATE |
|-----------------|----------|
|-----------------|----------|

| Definition | |
|--|---|
| Chemical name | Potassium salt of alginic acid |
| Chemical formula | $(C_6H_7KO_6)_n$ |
| Molecular weight | 10 000-600 000 (typical average) |
| Assay | Yields, on the anhydrous basis, not less than 16,5 % and not more than 19,5 % of carbon dioxide corresponding to not less than 89,2 % and not more than 105,5 % of potassium alginate (calculated on an equivalent weight basis of 238) |
| Description | Nearly odourless, white to yellowish fibrous or granular powder |
| Identification | |
| Positive test for potassium and for alginic acid | |
| Purity | |
| Loss on drying | Not more than 15 % (105 °C, 4 hours) |
| Water-insoluble matter | Not more than 2 % on the anhydrous basis |
| Formaldehyde | Not more than 50 mg/kg |
| Arsenic | Not more than 3 mg/kg |
| Lead | Not more than 5 mg/kg |
| Mercury | Not more than 1 mg/kg |
| Cadmium | Not more than 1 mg/kg |
| Total plate count | Not more than 5 000 colonies per gram |
| Yeast and moulds | Not more than 500 colonies per gram |
| E. coli | Absent in 5 g |
| Salmonella spp. | Absent in 10 g |

5.

The text concerning E 403 ammonium alginate is replaced by the following:

| Definition | |
|---|--|
| Chemical name | Ammonium salt of alginic acid |
| Chemical formula | (C ₆ H ₁₁ NO ₆) _n |
| Molecular weight | 10 000-600 000 (typical average) |
| Assay | Yields, on the anhydrous basis, not less than 18 % and not more than 21 % of carbon dioxide corresponding to not less than 88,7 % and not more than 103,6 % ammonium alginate (calculated on an equivalent weight basis of 217) |
| Description | White to yellowish fibrous or granular powder |
| Identification | · |
| Positive test for ammonium and alginic acid | |
| Purity | · |
| Loss on drying | Not more than 15 % (105 °C, 4 hours) |
| Sulphated ash | Not more than 7 % on the dried basis |
| Water-insoluble matter | Not more than 2 % on the anhydrous basis |
| Formaldehyde | Not more than 50 mg/kg |
| Arsenic | Not more than 3 mg/kg |
| Lead | Not more than 5 mg/kg |
| Mercury | Not more than 1 mg/kg |
| Cadmium | Not more than 1 mg/kg |
| Total plate count | Not more than 5 000 colonies per gram |
| Yeast and moulds | Not more than 500 colonies per gram |
| E. coli | Absent in 5 g |
| Salmonella spp. | Absent in 10 g |

E 403 AMMONIUM ALGINATE

6.

The text concerning E 404 calcium alginate is replaced by the following:

E 404 CALCIUM ALGINATE

| Synonyms | Calcium salt of alginate |
|------------------|------------------------------|
| Definition | |
| Chemical name | Calcium salt of alginic acid |
| Chemical formula | $(C_6H_7Ca_{1/2}O_6)_n$ |

| Molecular weight | 10 000-600 000 (typical average) |
|--|---|
| Assay | Yields, on the anhydrous basis, not less than 18 % and not more than 21 % carbon dioxide corresponding to not less than 89,6 % and not more than 104,5 % of calcium alginate (calculated on an equivalent weight basis of 219) |
| Description | Nearly odourless, white to yellowish fibrous or granular powder |
| Identification | · |
| Positive test for calcium and alginic acid | |
| Purity | · · · · · · · · · · · · · · · · · · · |
| Loss on drying | Not more than 15,0 % (105 °C, 4 hours) |
| Formaldehyde | Not more than 50 mg/kg |
| Arsenic | Not more than 3 mg/kg |
| Lead | Not more than 5 mg/kg |
| Mercury | Not more than 1 mg/kg |
| Cadmium | Not more than 1 mg/kg |
| Total plate count | Not more than 5 000 colonies per gram |
| Yeast and moulds | Not more than 500 colonies per gram |
| E. coli | Absent in 5 g |
| Salmonella spp. | Absent in 10 g |

7. The text concerning E 405 propane-1,2-diol alginate is replaced by the following:

E 405 PROPANE-1,2-DIOL ALGINATE

| Synonyms | Hydroxypropyl alginate 1,2-propanediol ester of alginic acid Propylene glycol alginate |
|------------------|--|
| Definition | |
| Chemical name | Propane-1,2-diol ester of alginic acid; varies in composition according to its degree of esterification and the percentage of free and neutralised carboxyl groups in the molecule |
| Chemical formula | (C ₉ H ₁₄ O ₇) _n (esterified) |
| Molecular weight | 10 000-600 000 (typical average) |
| Assay | Yields, on the anhydrous basis, not less than 16 % and not more than 20 % of CO_2 of carbon dioxide |

| Status: | This is the | original | version | (as it we | as originally | adopted). |
|---------|-------------|----------|---------|------------|---------------|-----------|
| Ditter. | into to the | originai | rerston | 100 11 110 | as or ignany | adopicaj |

| Description | Nearly odourless, white to yellowish brown fibrous or granular powder |
|---|---|
| Identification | |
| Positive test for 1,2-propanediol and alginic acid after hydrolysis | |
| Purity | |
| Loss on drying | Not more than 20 % (105 °C, 4 hours) |
| Total propane-1,2-diol content | Not less than 15 % and not more than 45 % |
| Free propane-1,2-diol content | Not more than 15 % |
| Water-insoluble matter | Not more than 2 % on the anhydrous basis |
| Formaldehyde | Not more than 50 mg/kg |
| Arsenic | Not more than 3 mg/kg |
| Lead | Not more than 5 mg/kg |
| Mercury | Not more than 1 mg/kg |
| Cadmium | Not more than 1 mg/kg |
| Total plate count | Not more than 5 000 colonies per gram |
| Yeast and moulds | Not more than 500 colonies per gram |
| E. coli | Absent in 5 g |
| Salmonella spp. | Absent in 10 g |

8. The text concerning E 407 carrageenan is replaced by the following:

E 407 CARRAGEENAN

| Synonyms | Products of commerce are sold under different names such as: Irish moss gelose Eucheuman (from <i>Eucheuma</i> spp.) Iridophycan (from <i>Iridaea</i> spp.) Hypnean (from <i>Hypnea</i> spp.) Furcellaran or Danish agar (from <i>Furcellaria fastigiata</i>) Carrageenan (from <i>Chondrus</i> and <i>Gigartina</i> spp.) |
|------------|---|
| Definition | Carrageenan is obtained by aqueous extraction of natural strains of seaweeds of <i>Gigartinaceae</i> , <i>Solieriaceae</i> , <i>Hypneaeceae</i> and <i>Furcellariaceae</i> , families of the class <i>Rhodophyceae</i> (red seaweeds). No organic precipitant shall be used other than methanol, ethanol and propane-2-ol. Carrageenan |

| | consists chiefly of the potassium, sodium, magnesium and calcium salts of polysaccharide sulphate esters which, on hydrolysis, yield galactose and 3,6- anhydrogalactose. Carrageenan shall not be hydrolysed or otherwise chemically degraded. Formaldehyde may be present as an adventitious impurity up to a maximum level of 5 mg/kg |
|---|--|
| Einecs | 232-524-2 |
| Description | Yellowish to colourless, coarse to fine powder which is practically odourless |
| Identification | |
| Positive tests for galactose, for anhydrogalactose and for sulphate | |
| Purity | |
| Methanol, ethanol, propane-2-ol content | Not more than 0,1 % singly or in combination |
| Viscosity of a 1,5 % solution at 75 $^{\circ}$ C | Not less than 5 mPa.s |
| Loss on drying | Not more than 12 % (105 °C, four hours) |
| Sulphate | Not less than 15 % and not more than 40 % on the dried basis (as SO_4) |
| Ash | Not less than 15 % and not more than 40 % determined on the dried basis at 550 °C |
| Acid-insoluble ash | Not more than 1 % on the dried basis (insoluble in 10 % hydrochloric acid) |
| Acid-insoluble matter | Not more than 2 % on the dried basis (insoluble in 1 % v/v sulphuric acid) |
| Low molecular weight carrageenan (Molecular weight fraction below 50 kDa) | Not more than 5 % |
| Arsenic | Not more than 3 mg/kg |
| Lead | Not more than 5 mg/kg |
| Mercury | Not more than 1 mg/kg |
| Cadmium | Not more than 2 mg/kg |
| Total plate count | Not more than 5 000 colonies per gram |
| Yeast and moulds | Not more than 300 colonies per gram |
| E. coli | Absent in 5 g |
| Salmonella spp. | Absent in 10 g |

9. The text concerning E 407a processed eucheuma seaweed is replaced by the following:

| Synonyms | PES (acronym for processed eucheuma seaweed) |
|--|---|
| Definition | Processed eucheuma seaweed is obtained by aqueous alkaline (KOH) treatment of the natural strains of seaweeds <i>Eucheuma cottonii</i> and <i>Eucheuma spinosum</i> , of the class <i>Rhodophyceae</i> (red seaweeds) to remove impurities and by fresh water washing and drying to obtain the product. Further purification may be achieved by washing with methanol, ethanol or propane-2-ol and drying. The product consist chiefly of the potassium salt of polysaccharide sulphate esters which, on hydrolysis, yield galactose and 3,6- anhydrogalactose. Sodium, calcium and magnesium salts of the polysaccharide sulphate esters are present in lesser amounts. Up to 15 % algal cellulose is also present in the product. The carrageenan in processed eucheuma seaweed shall not be hydrolysed or otherwise chemically degraded. Formaldehyde may be present as an adventitious impurity up to a maximum level of 5 mg/kg. |
| Description | Tan to yellowish, coarse to fine powder which is practically odourless |
| Identification | |
| A. Positive tests for galactose, for anhydrogalactose and for sulphate | |
| B. Solubility | Forms cloudy viscous suspensions in water. Insoluble in ethanol |
| Purity | |
| Methanol, ethanol, propane-2-ol content | Not more than 0,1 % singly or in combination |
| Viscosity of a 1,5 % solution at 75 °C | Not less than 5 mPa.s |
| Loss on drying | Not more than 12 % (105 °C, four hours) |
| Sulphate | Not less than 15 % and not more than 40 % on the dried basis (as SO_4) |

E 407A PROCESSED EUCHEUMA SEAWEED

| Ash | Not less than 15 % and not more than 40 % determined on the dried basis at 550 °C |
|---|---|
| Acid-insoluble ash | Not more than 1 % on the dried basis (insoluble in 10 % hydrochloric acid) |
| Acid-insoluble matter | Not less than 8 % and not more than 15 % on the dried basis (insoluble in 1 % v/v sulphuric acid) |
| Low molecular weight carrageenan (Molecular weight fraction below 50 kDa) | Not more than 5 % |
| Arsenic | Not more than 3 mg/kg |
| Lead | Not more than 5 mg/kg |
| Mercury | Not more than 1 mg/kg |
| Cadmium | Not more than 2 mg/kg |
| Total plate count | Not more than 5 000 colonies per gram |
| Yeast and moulds | Not more than 300 colonies per gram |
| E. coli | Absent in 5 g |
| Salmonella spp. | Absent in 10 g |

10. The text concerning E 412 guar gum is replaced by the following:

E 412 GUAR GUM

| Synonyms | Gum cyamopsis Guar flour |
|------------------|--|
| Definition | Guar gum is the ground endosperm of the seeds of natural strains of the guar plant, <i>Cyamopsis tetragonolobur</i> (L.) Taub. (family <i>Leguminosae</i>). Consists mainly of a high molecular weight hydrocolloidal polysaccharide composed of galactopyranose and mannopyranose units combined through glycosidic linkages, which may be described chemically as a galactomannan. The gum may be partially hydrolysed by either heat treatment, mild acid or alkaline oxidative treatment for viscosity adjustment. |
| Einecs | 232-536-0 |
| Molecular weight | Consists mainly of a high molecular weight hydrocolloidal polysaccharide (50 000-8 000 000) |

| Assay | Galactomannan content not less than 75 % |
|---|--|
| Description | A white to yellowish-white, nearly odourless powder |
| Identification | |
| A. Positive tests for galactose and for mannose | |
| B. Solubility | Soluble in cold water |
| Purity | |
| Loss on drying | Not more than 15 % (105 °C, 5 hours) |
| Ash | Not more than 5,5 % determined at 800 °C |
| Acid-insoluble matter | Not more than 7 % |
| Protein (N \times 6,25) | Not more than 10 % |
| Starch | Not detectable by the following method: to a 1 in 10 solution of the sample add a few drops of iodine solution (no blue colour is produced) |
| Organic peroxides | Not more than 0,7 meq active oxygen/kg sample |
| Furfural | Not more than 1 mg/kg |
| Lead | Not more than 2 mg/kg |
| Arsenic | Not more than 3 mg/kg |
| Mercury | Not more than 1 mg/kg |
| Cadmium | Not more than 1 mg/kg |

11.

After the entry E 503(ii), the following text concerning E 504(i) is added:

E 504(I) MAGNESIUM CARBONATE

| Synonyms | Hydromagnesite |
|------------------|---|
| Definition | Magnesium carbonate is a basic hydrated or a monohydrated magnesium carbonate or a mixture of the two |
| Chemical name | Magnesium carbonate |
| Chemical formula | MgCO ₃ .nH ₂ O |
| Einecs | 208-915-9 |
| Assay | Not less than 24 % and not more than 26,4 % of Mg |

| Description | Odourless, light, white friable masses or as a bulky white powder |
|---|---|
| Identification | |
| A. Solubility | Practically insoluble both in water or ethanol |
| B. Positive tests for magnesium and for carbonate | n |
| Purity | |
| Acid insoluble matter | Not more than 0,05 % |
| Water soluble matter | Not more than 1 % |
| Calcium | Not more than 0,4 % |
| Arsenic | Not more than 4 mg/kg |
| Lead | Not more than 2 mg/kg |
| Mercury | Not more than 1 mg/kg |

12. The text concerning E 526 calcium hydroxide is replaced by the following:

E 526 CALCIUM HYDROXIDE

| | 1 | |
|--|--|--|
| Synonyms | Slaked lime, hydrated lime | |
| Definition | · | |
| Chemical name | Calcium hydroxide | |
| Einecs | 215-137-3 | |
| Chemical formula | Ca(OH) ₂ | |
| Molecular weight | 74,09 | |
| Assay | Content not less than 92 % | |
| Description | White powder | |
| Identification | | |
| A. Positive tests for alkali and for calcium | | |
| B. Solubility | Slightly soluble in water. Insoluble in ethanol. Soluble in glycerol | |
| Purity | · | |
| Acid insoluble ash | Not more than 1,0 % | |
| Magnesium and alkali salts | Not more than 2,7 % | |
| Barium | Not more than 300 mg/kg | |
| Fluoride | Not more than 50 mg/kg | |
| Arsenic | Not more than 3 mg/kg | |
| | | |

| Lead N | Not more than 6 mg/kg |
|--------|-----------------------|
|--------|-----------------------|

13. The text concerning E 529 calcium oxide is replaced by the following:

E 529 CALCIUM OXIDE

| Synonyi | ns | Burnt lime | | | | |
|----------------------------|---|--|--|--|--|--|
| Definitio | n | | | | | |
| Chemica | l name | Calcium oxide | | | | |
| Einecs | | 215-138-9 | | | | |
| Chemical formula | | CaO | | | | |
| Molecula | ar weight | 56,08 | | | | |
| Assay | | Content not less than 95 % on the ignited basis | | | | |
| Description | | Odourless, hard, white or greyish white masses of granules, or white to greyish powder | | | | |
| Identifi | cation | · | | | | |
| A. | Positive test for alkali and for calcium | | | | | |
| B. | Heat is generated on moistening the sample in water | | | | | |
| C. | Solubility | Slightly soluble in water. Insoluble in ethanol. Soluble in glycerol | | | | |
| Purity | | · | | | | |
| Loss on ignition | | Not more than 10 % (ca. 800 °C to constant weight) | | | | |
| Acid insoluble matter | | Not more than 1 % | | | | |
| Barium | | Not more than 300 mg/kg | | | | |
| Magnesium and alkali salts | | Not more than 3,6 % | | | | |
| Fluoride | | Not more than 50 mg/kg | | | | |
| Arsenic | | Not more than 3 mg/kg | | | | |
| Lead | | Not more than 7 mg/kg | | | | |

14. The text concerning E 901 beeswax is replaced by the following:

E 901 BEESWAX

| Synonyms | White wax, yellow wax |
|------------|---|
| Definition | Yellow beeswax is the wax obtained by melting the walls of the honeycomb |

| | | made by the honey bee, <i>Apis mellifera</i> <i>L</i> ., with hot water and removing foreign matter White beeswax is obtained by bleaching yellow beeswax | | |
|--|------------------|--|--|--|
| Eine | cs | 232-383-7 (beeswax) | | |
| Desc | ription | Yellowish white (white form) or yellowish to greyish brown (yellow form) pieces or plates with a fine- grained and non-crystalline fracture, having an agreeable, honey-like odour | | |
| Iden | tification | | | |
| A. | Melting range | Between 62 °C and 65 °C | | |
| B. | Specific gravity | About 0,96 | | |
| C. | Solubility | Insoluble in water Sparingly soluble in alcohol Very soluble in chloroform and ether | | |
| Puri | ity | | | |
| Acid | value | Not less than 17 and not more than 24 | | |
| Sapo | nification value | 87-104 | | |
| Peroxide value | | Not more than 5 | | |
| Glycerol and other polyols | | Not more than 0,5 % (as glycerol) | | |
| Ceresin, paraffins and certain other waxes | | Absent | | |
| Fats, Japan wax, rosin and soaps | | Absent | | |
| Arsenic | | Not more than 3 mg/kg | | |
| Lead | | Not more than 2 mg/kg | | |
| Mercury | | Not more than 1 mg/kg | | |

15. The text concerning E 905 microcrystalline wax is replaced by the following:

E 905 MICROCRYSTALLINE WAX

| Synonyms | Petroleum wax, hydrocarbon wax, Fischer-Tropsch wax, synthetic wax, synthetic paraffin |
|----------------|--|
| Definition | Refined mixtures of solid, saturated hydrocarbons, obtained from petroleum or synthetic feedstocks |
| Description | White to amber, odourless wax |
| Identification | |

| Status: | This is the | original | version | (as it | was | originally | adopted). |
|---------|-------------|----------|---------|--------|-----|------------|-----------|

| A. | Solubility | Insoluble in water, very slightly soluble in ethanol | | | |
|---|------------------|---|---|--|--|
| В. | Refractive Index | n_{D}^{100} 1,434-1,448 Alternative: n_{D}^{120} 1,426-1,440 | | | |
| Purity | | | | | |
| Molecu | lar weight | Average not less than 500 | | | |
| Viscosit | у | Not less than $1,1 \times 10^{-5} \text{ m}^2 \text{ s}^{-1}$ at 100 °C Alternative: Not less than $0,8 \times 10^{-5} \text{ m}^2$ s ⁻¹ at 120 °C, if solid at 100 °C | | | |
| Residue | e on ignition | Not more than 0,1 w | vt % | | |
| Carbon number at 5 % distillation point | | Not more than 5 % of molecules with carbon number less than 25 | | | |
| Colour | | Passes test | | | |
| Sulphur | | Not more than 0,4 wt % | | | |
| Arsenic | | Not more than 3 mg/kg | | | |
| Lead | | Not more than 3 mg/kg | | | |
| Polycyclic aromatic compounds | | The polycyclic aromatic hydrocarbons, obtained by extraction with dimethyl sulfoxide, shall meet the following ultraviolet absorbency limits: | | | |
| | | Nm | Maximum absorbance per cm path length | | |
| | | 280-289 | 0,15 | | |
| | | 290-299 | 0,12 | | |
| | | 300-359 | 0,08 | | |
| | | 360-400 | 0,02 | | |
| | | Alternative, if solid at 100 °C PAC method as per 21 CFR& 175.250; Absorbency at 290 nm in decahydronaphthalene at 88 °C: Not exceeding 0,01 | | | |

16. The text concerning E 230 and E 233 is deleted.