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ANNEX

The Annex to Directive 96/77/EC is amended and corrected as follows:

- The texts concerning E 216 propyl p-hydroxybenzoate and E 217 sodium propyl p-1. hydroxybenzoate are deleted.
- The text concerning E 307 alpha-tocopherol is replaced by the following: 2.

$ \begin{array}{c c} \textbf{Synonyms} & DL-\alpha\text{-Tocopherol} \\ \hline \textbf{Definition} \\ \hline \textbf{Chemical name} & DL-5,7,8\text{-Trimethyltocol} \\ DL-2,5,7,8\text{-Tetramethyl-2-}(4',8',12'\text{-trimethyltridecyl})\text{-}6\text{-chromanol} \\ \hline \textbf{Einecs} & 233\text{-}466\text{-}0 \\ \hline \textbf{Chemical formula} & C_{29}H_{50}O_{2} \\ \hline \textbf{Molecular weight} & 430,71 \\ \hline \textbf{Assay} & \textbf{Content not less than 96 \%} \\ \hline \textbf{Description} & Slightly yellow to amber, nearly odourless, clear, viscous oil which oxidizes and darkens on exposure to air or light \\ \hline \textbf{Identification} \\ \hline \textbf{A.} & Solubility tests & Insoluble in water, freely soluble in ethanol, miscible in ether \\ \hline \textbf{B.} & \textbf{Spectrophotometry} & In absolute ethanol the maximum absorption is about 292 nm \\ \hline \textbf{Purity} \\ \hline \textbf{Refractive index} & n_D^{20} 1,503 \text{ to } 1,507 \\ \hline \textbf{Specific absorption E}^{1\%_{1\text{cm}}} \text{ in ethanol} & E^{1\%_{1\text{cm}}} \text{ (292 nm) } 72 \text{ to } 76 \\ (0,01\ \text{g in } 200\ \text{ml of absolute ethanol}) \\ \hline \textbf{Sulphated ash} & \text{Not more than } 0,1\% \\ \hline \textbf{Specific rotation} & [\alpha]^{25}_{D}0^{\circ} \pm 0,05^{\circ} \text{ (1 in } 10 \text{ solution in } \text{chloroform)} \\ \hline \textbf{Lead} & \text{Not more than } 2\text{mg/kg} \\ \hline \end{array}$	E 307 ALPHA-TOCOPHEROL		
$ \begin{array}{c} \text{Chemical name} & \begin{array}{c} DL-5,7,8-\text{Trimethyltocol} \\ DL-2,5,7,8-\text{Tetramethyl-2-}(4',8',12'-\text{trimethyltridecyl})-6-\text{chromanol} \\ \end{array} \\ \text{Einecs} & 233-466-0 \\ \text{Chemical formula} & C_{29}H_{50}O_{2} \\ \text{Molecular weight} & 430,71 \\ \text{Assay} & \text{Content not less than 96 \%} \\ \textbf{Description} & \begin{array}{c} \text{Slightly yellow to amber, nearly odourless, clear, viscous oil which oxidizes and darkens on exposure to air or light} \\ \textbf{Identification} \\ \textbf{A.} & \text{Solubility tests} & \begin{array}{c} \text{Insoluble in water, freely soluble in ethanol, miscible in ether} \\ \textbf{B.} & \text{Spectrophotometry} & \begin{array}{c} \text{In absolute ethanol the maximum absorption is about 292 nm} \\ \textbf{Purity} \\ \textbf{Refractive index} & \begin{array}{c} n_D^{20} 1,503 \text{ to } 1,507 \\ \text{Specific absorption E}^{1~\%}_{1~\text{cm}} \text{ in ethanol} \\ \text{(0,01 g in 200 ml of absolute ethanol)} \\ \text{Sulphated ash} & \text{Not more than 0,1 \%} \\ \text{Specific rotation} & \begin{array}{c} [\alpha]^{25}_{D}0^{\circ} \pm 0,05^{\circ} \text{ (1 in 10 solution in chloroform)} \\ \end{array} \end{array}$	Synonyms	DL-α-Tocopherol	
$\begin{array}{c c} DL-2,5,7,8\text{-Tetramethyl-}2-(4',8',12'-\text{trimethyltridecyl})\text{-}6\text{-}\text{chromanol} \\ \hline Einecs & 233\text{-}466\text{-}0 \\ \hline Chemical formula & C_{29}H_{50}O_2 \\ \hline \text{Molecular weight} & 430,71 \\ \hline \text{Assay} & \text{Content not less than 96 \%} \\ \hline \textbf{Description} & \text{Slightly yellow to amber, nearly odourless, clear, viscous oil which oxidizes and darkens on exposure to air or light} \\ \hline \textbf{Identification} \\ \hline \textbf{A.} & \text{Solubility tests} & \text{Insoluble in water, freely soluble in ethanol, miscible in ether} \\ \hline \textbf{B.} & \text{Spectrophotometry} & \text{In absolute ethanol the maximum absorption is about 292 nm} \\ \hline \textbf{Purity} \\ \hline \textbf{Refractive index} & \text{n}_D^{20} \text{ 1,503 to 1,507} \\ \hline \textbf{Specific absorption E}^{1\%}_{1\text{cm}} \text{ in ethanol} & \text{E}^{1\%}_{1\text{cm}} \text{ (292 nm) 72 to 76} \\ \text{(0,01 g in 200 ml of absolute ethanol)} \\ \hline \textbf{Sulphated ash} & \text{Not more than 0,1 \%} \\ \hline \textbf{Specific rotation} & [\alpha]^{25}_{D}0^{\circ} \pm 0,05^{\circ} \text{ (1 in 10 solution in chloroform)} \\ \hline \end{array}$	Definition		
$ \begin{array}{c} C_{1} \\ C_{2} \\ Molecular \ weight \\ Assay \\ Content \ not \ less \ than 96 \% \\ \hline \textbf{Description} \\ Slightly \ yellow \ to \ amber, \ nearly \ odourless, \ clear, \ viscous \ oil \ which \ oxidizes \ and \ darkens \ on \ exposure \ to \ air \ or \ light \\ \hline \textbf{Identification} \\ A. Solubility \ tests \\ B. Spectrophotometry \\ \hline \textbf{In absolute ethanol the maximum} \ absorption \ is \ about \ 292 \ nm \\ \hline \textbf{Purity} \\ \hline \textbf{Refractive index} \\ \hline \textbf{Specific absorption } E^{1\%}_{1 \ cm} \ in \ ethanol \\ \hline \textbf{Specific absorption } E^{1\%}_{1 \ cm} \ in \ ethanol \\ \hline \textbf{Sulphated ash} \\ \hline \textbf{Not more than 0,1 \%} \\ \hline \textbf{Specific rotation} \\ \hline \ [\alpha]^{25}_{D}0^{\circ} \pm 0,05^{\circ} \ (1 \ in \ 10 \ solution \ in \ chloroform) \\ \hline \end{array}$	Chemical name	DL-2,5,7,8-Tetramethyl-2-(4',8',12'-	
Molecular weight Assay Content not less than 96 % Slightly yellow to amber, nearly odourless, clear, viscous oil which oxidizes and darkens on exposure to air or light Identification A. Solubility tests Insoluble in water, freely soluble in ethanol, miscible in ether B. Spectrophotometry In absolute ethanol the maximum absorption is about 292 nm Purity Refractive index $n_D^{20} 1,503 \text{ to } 1,507$ Specific absorption $E^{1 \%}_{1 \text{ cm}}$ in ethanol $E^{1 \%}_{1 \text{ cm}}$ (292 nm) 72 to 76 (0,01 g in 200 ml of absolute ethanol) Sulphated ash Not more than 0,1 % Specific rotation $[\alpha]^{25}_{D}0^{\circ} \pm 0,05^{\circ}$ (1 in 10 solution in chloroform)	Einecs	233-466-0	
Assay Content not less than 96 % Description Slightly yellow to amber, nearly odourless, clear, viscous oil which oxidizes and darkens on exposure to air or light Identification A. Solubility tests Insoluble in water, freely soluble in ethanol, miscible in ether B. Spectrophotometry In absolute ethanol the maximum absorption is about 292 nm Purity Refractive index $n_D^{20} 1,503 \text{ to } 1,507$ Specific absorption $E^{1 \%}_{1 \text{ cm}}$ in ethanol $E^{1 \%}_{1 \text{ cm}}$ (292 nm) 72 to 76 (0,01 g in 200 ml of absolute ethanol) Sulphated ash Not more than 0,1 % Specific rotation $[\alpha]^{25}_{D}0^{\circ} \pm 0,05^{\circ}$ (1 in 10 solution in chloroform)	Chemical formula	$C_{29}H_{50}O_2$	
DescriptionSlightly yellow to amber, nearly odourless, clear, viscous oil which oxidizes and darkens on exposure to air or lightIdentificationInsoluble in water, freely soluble in ethanol, miscible in etherB. SpectrophotometryIn absolute ethanol the maximum absorption is about 292 nmPurityRefractive index n_D^{20} 1,503 to 1,507Specific absorption $E^{1\%}_{1cm}$ in ethanol $E^{1\%}_{1cm}$ (292 nm) 72 to 76 (0,01 g in 200 ml of absolute ethanol)Sulphated ashNot more than 0,1 %Specific rotation $[\alpha]^{25}_{D}0^{\circ} \pm 0,05^{\circ}$ (1 in 10 solution in chloroform)	Molecular weight	430,71	
odourless, clear, viscous oil which oxidizes and darkens on exposure to air or light Identification A. Solubility tests Insoluble in water, freely soluble in ethanol, miscible in ether B. Spectrophotometry In absolute ethanol the maximum absorption is about 292 nm Purity Refractive index n_D^{20} 1,503 to 1,507 Specific absorption $E^{1\%}_{1\text{cm}}$ in ethanol $E^{1\%}_{1\text{cm}}$ (292 nm) 72 to 76 (0,01 g in 200 ml of absolute ethanol) Sulphated ash Not more than 0,1 % Specific rotation $[\alpha]^{25}_{D}0^{\circ} \pm 0,05^{\circ}$ (1 in 10 solution in chloroform)	Assay	Content not less than 96 %	
A. Solubility tests Insoluble in water, freely soluble in ethanol, miscible in ether B. Spectrophotometry In absolute ethanol the maximum absorption is about 292 nm Purity Refractive index $n_D^{20} 1,503 \text{ to } 1,507$ Specific absorption $E^{1\%}_{1\text{cm}}$ in ethanol $E^{1\%}_{1\text{cm}}$ (292 nm) 72 to 76 (0,01 g in 200 ml of absolute ethanol) Sulphated ash Not more than 0,1 % Specific rotation $[\alpha]^{25}_D0^{\circ} \pm 0,05^{\circ}$ (1 in 10 solution in chloroform)	Description	odourless, clear, viscous oil which oxidizes and darkens on exposure to air	
A. Solubility tests ethanol, miscible in ether B. Spectrophotometry In absolute ethanol the maximum absorption is about 292 nm Purity Refractive index $n_D^{20} 1,503 \text{ to } 1,507$ Specific absorption $E^{1\%}_{1\text{cm}}$ in ethanol $E^{1\%}_{1\text{cm}}$ (292 nm) 72 to 76 (0,01 g in 200 ml of absolute ethanol) Sulphated ash Not more than 0,1 % Specific rotation $[\alpha]^{25}_D0^{\circ} \pm 0,05^{\circ}$ (1 in 10 solution in chloroform)	Identification		
B. Spectrophotometry absorption is about 292 nm Purity Refractive index n_D^{20} 1,503 to 1,507 Specific absorption $E^{1\%}_{1\text{cm}}$ in ethanol $E^{1\%}_{1\text{cm}}$ (292 nm) 72 to 76 (0,01 g in 200 ml of absolute ethanol) Sulphated ash	A. Solubility tests		
Refractive index $ n_D^{20} \ 1,503 \ to \ 1,507 $ Specific absorption $E^{1\%}_{1cm}$ in ethanol $ E^{1\%}_{1cm} \ (292 \ nm) \ 72 \ to \ 76 $ $(0,01 \ g \ in \ 200 \ ml \ of \ absolute \ ethanol) $ Sulphated ash $ Not \ more \ than \ 0,1 \ \% $ Specific rotation $ [\alpha]^{25}_{D}0^{\circ} \pm 0,05^{\circ} \ (1 \ in \ 10 \ solution \ in \ chloroform) $	B. Spectrophotometry		
Specific absorption $E^{1}\%_{1 \text{ cm}}$ in ethanol $E^{1}\%_{1 \text{ cm}}$ (292 nm) 72 to 76 (0,01 g in 200 ml of absolute ethanol) Sulphated ash Not more than 0,1 % Specific rotation $[\alpha]^{25}_{D}0^{\circ} \pm 0,05^{\circ}$ (1 in 10 solution in chloroform)	Purity		
$(0,01 \text{ g in } 200 \text{ ml of absolute ethanol})$ Sulphated ash Not more than 0,1 % $[\alpha]^{25}_{D}0^{\circ} \pm 0,05^{\circ} \text{ (1 in } 10 \text{ solution in chloroform)}$	Refractive index	n_D^{20} 1,503 to 1,507	
Specific rotation $ [\alpha]^{25}{}_{D}0^{\circ} \pm 0,05^{\circ} \text{ (1 in 10 solution in chloroform)} $	Specific absorption E ¹ % _{1 cm} in ethanol		
chloroform)	Sulphated ash	Not more than 0,1 %	
Lead Not more than 2 mg/kg	Specific rotation		
	Lead	Not more than 2 mg/kg	

3. The text concerning E 315 erythorbic acid is replaced by the following:

E 315 ERYTHORBIC ACID	
Synonyms	Isoascorbic acid D-Araboascorbic acid
Definition	
Chemical name	D-Erythro-hex-2-enoic acid γ-lactone

		Isoascorbic acid D-Isoascorbic acid
Einecs		201-928-0
Chemi	cal formula	$C_6H_8O_6$
Molec	ular weight	176,13
Assay		Content not less than 98 % on the anhydrous basis
Descri	iption	White to slightly yellow crystalline solid which darkens gradually on exposure to light
Ident	ification	
A.	Melting range	About 164 °C to 172 °C with decomposition
B.	Positive test for ascorbic acid/colour reaction	
Purit	y	
Loss o	n drying	Not more than 0,4 % after drying under reduced pressure on silica gel for 3 hours
Sulpha	ated ash	Not more than 0,3 %
Specif	ic rotation	$[\alpha]^{25}_{D}10 \%$ (w/v) aqueous solution between – 16,5° to – 18,0°
Oxalat	e	To a solution of 1 g in 10 ml of water add 2 drops of glacial acetic acid and 5 ml of 10 % calcium acetate solution. The solution should remain clear
Lead		Not more than 2 mg/kg

4. The following text concerning E 319 tertiary-butylhydroquinone (TBHQ) is inserted after E 316 sodium erythorbate:

E 319 TERTIARY-BUTYLHYDROQUINONE (TBHQ)		
Synonyms	ТВНО	
Definition		
Chemical names	Tert-butyl-1,4-benzenediol 2-(1,1-Dimethylethyl)-1,4-benzenediol	
Einecs	217-752-2	
Chemical formula	$C_{10}H_{14}O_2$	
Molecular weight	166,22	
Assay	Content not less than 99 % of C ₁₀ H ₁₄ O ₂	

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Descrip	otion	White crystalline solid having a characteristic odour
Identif	ication	
A.	Solubility	Practically insoluble in water; soluble in ethanol
В.	Melting point	Not less than 126,5 °C
C.	Phenolics	Dissolve about 5 mg of the sample in 10 ml of methanol and add 10,5 ml of dimethylamine solution (1 in 4). A red to pink colour is produced
Purity		
Tertiary	-Butyl- <i>p</i> -benzoquinone	Not more than 0,2 %
2,5-Di-tertiary-butyl hydroquinone		Not more than 0,2 %
Hydroxyquinone		Not more than 0,1 %
Toluene	;	Not more than 25 mg/kg
Lead		Not more than 2 mg/kg

5. The text concerning E 415 xanthan gum is replaced by the following:

E 415 XANTHAN GUM		
Definition	Xanthan gum is a high molecular weight polysaccharide gum produced by a pure-culture fermentation of a carbohydrate with natural strains of <i>Xanthomonas campestris</i> , purified by recovery with ethanol or propan-2-ol, dried and milled. It contains D-glucose and D-mannose as the dominant hexose units, along with D-glucuronic acid and pyruvic acid, and is prepared as the sodium, potassium or calcium salt. Its solutions are neutral	
Molecular weight	Approximately 1 000 000	
Einecs	234-394-2	
Assay	Yields, on dried basis, not less than 4,2 % and not more than 5 % of CO ₂ corresponding to between 91 % and 108 % of xanthan gum	
Description	Cream-coloured powder	
Identification		
A. Solubility	Soluble in water. Insoluble in ethanol	
Purity		
Loss on drying	Not more than 15 % (105 °C, $2^{1}/_{2}$ hours)	

Total ash	Not more than 16 % on the anhydrous basis determined at 650 °C after drying at 105 °C for four hours
Pyruvic acid	Not less than 1,5 %
Nitrogen	Not more than 1,5 %
Ethanol and propan-2-ol	Not more than 500 mg/kg singly or in combination
Lead	Not more than 2 mg/kg
Total plate count	Not more than 5 000 colonies per gram
Yeast and mould	Not more than 300 colonies per gram
E. coli	Absent in 5 g
Salmonella spp.	Absent in 10 g
Xanthomonas campestris	Viable cells absent in 1 g

6. The following text concerning E 426 soybean hemicellulose is inserted after E 425(ii) konjac glucomannan:

E 426 SOYBEAN HEMICELLULOSE		
Synonyms		
Definition	Soybean hemicellulose is a refined water-soluble polysaccharide obtained from natural strain soybean fibre by hot water extraction	
Chemical names	Water soluble soybean polysaccharides Water soluble soybean fibre	
Assay	Not less than 74 % carbohydrate	
Description	Free flowing spray-dried white powder	
Identification	,	
A. Solubility	Soluble in hot and cold water without gel formation	
pH of 1 % solution	5.5 ± 1.5	
B. Viscosity of 10 % solution	Not more than 200 mPa.s	
Purity		
Loss on drying	Not more than 7 % (105 °C, 4 h)	
Protein	Not more than 14 %	
Total ash	Not more than 9,5 % (600 °C, 4 h)	
Arsenic	Not more than 2 mg/kg	
Lead	Not more than 5 mg/kg	
Mercury	Not more than 1 mg/kg	

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Cadmium	Not more than 1 mg/kg
Standard plate count	Not more than 3 000 colonies per gram
Yeast and mould	Not more than 100 colonies per gram
E. Coli	Negative in 10 g

The following text concerning E 462 ethyl cellulose is inserted after E 461 methyl 7. cellulose:

E 462 ETHYL CELLULOSE		
Synonyms	Cellulose ethyl ether	
Definition	Ethyl cellulose is cellulose obtained directly from fibrous plant material and partially etherified with ethyl groups	
Chemical names	Ethyl ether of cellulose	
Chemical formula	The polymers contain substituted anhydroglucose units with the following general formula: C ₆ H ₇ O ₂ (OR ₁)(OR ₂) where R ₁ and R ₂ may be any of the following: — H — CH ₂ CH ₃	
Assay	Content not less than 44 % and not more than 50 % of ethoxyl groups (-OC ₂ H ₅) on the dried basis (equivalent to not more than 2,6 ethoxyl groups per anhydroglucose unit)	
Description	Slightly hygroscopic, white to off white, odourless and tasteless powder	
Identification		
A. Solubility	Practically insoluble in water, in glycerol and in propane-1,2-diol but soluble in varying proportions in certain organic solvents depending upon the ethoxyl content. Ethyl cellulose containing less than 46 to 48 % of ethoxyl groups is freely soluble in tetrahydrofuran, in methyl acetate, in chloroform and in aromatic hydrocarbon ethanol mixtures. Ethyl cellulose containing 46 to 48 % or more of ethoxyl groups is freely soluble in ethanol, in methanol, in toluene, in chloroform and in ethyl acetate	
B. Film forming test	Dissolve 5 g of the sample in 95 g of an 80:20 (w/w) mixture of toluene ethanol. A clear, stable, slightly yellow	

	solution is formed. Pour a few ml of the solution onto a glass plate and allow the solvent to evaporate. A thick, tough, continuous, clear film remains. The film is flammable
Purity	
Loss on drying	Not more than 3 % (105 °C, 2 h)
Sulphated ash	Not more than 0,4 %
pH of a 1 % colloidal solution	Neutral to litmus
Arsenic	Not more than 3 mg/kg
Lead	Not more than 2 mg/kg
Mercury	Not more than 1 mg/kg
Cadmium	Not more than 1 mg/kg

8. The text concerning E 472c citric acid esters of mono- and diglycerides of fatty acids is replaced by the following:

	CCCITRIC ACID ESTERS OF MITY ACIDS	MONO- AND DIGLYCYERIDES OF
Synon	nyms	Citrem Citric acid esters of mono- and diglycerides Citroglycerides Mono- and diglycerides of fatty acids esterified with citric acid
Defini	ition	Esters of glycerol with citric acid and fatty acids occurring in food oils and fats. They may contain small amounts of free glycerol, free fatty acids, free citric acid and free glycerides. They may be partially or wholly neutralised with sodium hydroxide or with potassium hydroxide
Descr	iption	Yellowish or light brown liquids to waxy solids or semi-solids
Ident	ification	
A.	Positive test for glycerol, for fatty acids and for citric acid	
В.	Solubility	Insoluble in cold water Dispersible in hot water Soluble in oils and fats In soluble in cold ethanol
Purit	y	
Acids other than citric and fatty acids		Not detectable

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Free glycerol	Not more than 2 %
Total glycerol	Not less than 8 % and not more than 33 %
Total citric acid	Not less than 13 % and not more than 50 %
Sulphated ash (determined at 800 ± 25 °C)	Non-neutralised products: not more than 0,5 % Partially or wholly neutralised products: not more than 10 %
Lead	Not more than 2 mg/kg
Free fatty acids	Not more than 3 % estimated as oleic acid

Purity criteria apply to the additive free of sodium, potassium and calcium salts of fatty acids, however, these substances may be present up to a maximum level of 6 % (expressed as sodium oleate).

9. The text concerning E 559 aluminium silicate (kaolin) is replaced by the following:

Synonyme	Kaolin, light or heavy
Synonyms	Kaomi, fight of fleavy
Definition	Aluminium silicate hydrous (kaolin) is a purified white plastic clay composed of kaolinite, potassium aluminium silicate, feldspar and quartz. Processing should not include calcination. The raw kaolinitic clay used in the production of aluminium silicate shall have a level of dioxin which does not make it injurious to health or unfit for human consumption
Einecs	215-286-4 (kaolinite)
Chemical formula	Al ₂ Si ₂ O ₅ (OH) ₄ (kaolinite)
Molecular weight	264
Assay	Content not less than 90 % (sum of silica and alumina, after ignition) Silica (SiO ₂) Between 45 % and 55 % Alumina (A1 ₂ O ₃) Between 30 % and 39 %
Description	Fine, white or greyish white, unctuous powder. Kaolin is made up of loose aggregations of randomly oriented stacks of kaolinite flakes or of individual hexagonal flakes.

A.	Positive test for alumina and for silicate	
B.	X-ray diffraction	Characteristic peaks at 7,18/3,58/2,38/1,78 Å
C.	IR absorption	Peaks at 3 700 and 3 620 cm ⁻¹
Purity	7	
Loss of	n ignition	Between 10 and 14 % (1 000 °C, constant weight)
Water	soluble matter	Not more than 0,3 %
Acid soluble matter		Not more than 2 %
Iron		Not more than 5 %
Potassi	um oxide (K ₂ O)	Not more than 5 %
Carbon		Not more than 0,5 %
Arsenic		Not more than 3 mg/kg
Lead		Not more than 5 mg/kg
Mercu	ту	Not more than 1 mg/kg

10. The following text concerning E 586 4-hexylresorcinol is inserted after E 578 calcium gluconate:

E 586 4-HEXYLRESORCINOL			
Synon	nyms	4-Hexyl-1,3-benzenediol Hexylresorcinol	
Defi	Definition		
Chem	nical names	4-Hexylresorcinol	
Einec	S	205-257-4	
Chem	nical formula	C ₁₂ H ₁₈ O ₂	
Mole	cular weight	197,24	
Assay	<i>I</i>	Not less than 98,0 % on the dried basis	
Description		White powder	
Identification			
A.	Solubility	Freely soluble in ether and acetone; very slightly soluble in water	
В.	Nitric acid test	To 1 ml of a saturated solution of the sample, add 1 ml of nitric acid. A light red colour appears	
C.	Bromine test	To 1 ml of saturated solution of the sample, add 1 ml of bromine TS. A	

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	yellow, flocculent precipitate dissolves producing a yellow solution
D. Melting range	62 to 67 °C
Purity	
Acidity	Not more than 0,05 %
Sulphated ash	Not more than 0,1 %
Resorcinol and other phenols	Shake about 1 g of the sample with 50 ml of water for a few minutes, filter, and to the filtrate add 3 drops of ferric chloride TS. No red or blue colour is produced
Nickel	Not more than 2 mg/kg
Lead	Not more than 2 mg/kg
Mercury	Not more than 3 mg/kg

11. The following text concerning E 1204 pullulan is inserted after E 1200 polydextrose:

E 120	04 PULLULAN	
Defin	ition	Linear, neutral glucan consisting mainly of maltotriose units connected by -1,6 glycosidic bonds. It is produced by fermentation from a food grade hydrolysed starch using a non-toxin producing strain of <i>Aureobasidium pullulans</i> . After completion of the fermentation, the fungal cells are removed by microfiltration, the filtrate is heat-sterilised and pigments and other impurities are removed by adsorption and ion exchange chromatography
Einecs	S	232-945-1
Chem	ical formula	$(C_6H_{10}O_5)_x$
Assay		Not less than 90 % of glucan on the dried basis
Descr	iption	White to off-white odourless powder
Ident	tification	
A.	Solubility	Soluble in water, practically insoluble in ethanol.
В.	pH of 10 % solution	5,0 to 7,0
C.	Precipitation with polyethylene glycol 600	Add 2 ml of polyethylene glycol 600 to 10 ml of a 2 % aqueous solution of pullulan. A white precipitate is formed

D.	Depolymerisation with pullulanase	Prepare two test tubes each with 10 ml of a 10 % pullulan solution. Add 0,1 ml pullulanase solution having activity 10 units/g to one test tube, and 0,1 ml water to the other. After incubation at about 25 °C for 20 min, the viscosity of the pullulanase-treated solution is visibly lower than that of the untreated solution
Purity		
Loss on	drying	Not more than 6 % (90 °C, pressure not more than 50 mm Hg, 6 h)
Mono-, di- and oligosaccharides		Not more than 10 % expressed as glucose
Viscosity		100 to 180 mm ² /s (10 % w/w aqueous solution at 30 °C)
Lead		Not more than 1 mg/kg
Yeast and moulds		Not more than 100 colonies per gram
Coliforms		Absent in 25 g
Salmonella		Absent in 25 g

12. The following text concerning E 1452 starch aluminium octenyl succinate is inserted after E 1451 acetylated oxidised starch:

E 1452 STARCH ALUMINIUM OCTENYL SUCCINATE		
Synonyms	S	SAOS
Definition		Starch aluminium octenyl succinate is starch esterified with octenyl succinic anhydride and treated with aluminium sulphate
Description)n	White or nearly white powder or granules or (if pregelatinised) flakes, amorphous powder or coarse particles
Identification		
	f not pregelatinised: by niscroscopic observation	
	odine staining positive (dark blue to light red colour)	
Purity		
,	expressed on an anhydrous pt for loss on drying)	
Loss on drying		Not more than 21 %
Octenylsuccinyl groups		Not more than 3 %

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Not more than 0,3 %
Not more than 50 mg/kg for modified cereal starches Not more than 10 mg/kg for the other modified starches unless otherwise specified
Not more than 1 mg/kg
Not more than 2 mg/kg
Not more than 0,1 mg/kg
Not more than 0,3 %