codex alimentarius commission E





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Agenda Item 4

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JOINT FAO/WHO FOOD STANDARDS PROGRAMME CODEX COMMITTEE ON FOOD ADDITIVES

Forty-second Session

Beijing, China, 15-19 March 2010

ENDORSEMENT AND/OR REVISION OF MAXIMUM LEVELS FOR FOOD ADDITIVES AND PROCESSING AIDS IN CODEX STANDARDS

BACKGROUND

- 1. In accordance with the section concerning Relations between Commodity Committees and General Committees of the Codex Alimentarius Commission Procedural Manual, "All provisions in respect of food additives (including processing aids) contained in Codex commodity standards should be referred to the Committee on Food Additives, preferably before the Standards have been advanced to Step 5 of the Procedure for the Elaboration of Codex Standards or before they are considered by the commodity committee concerned at Step 7, though such referral should not be allowed to delay the progress of the Standard to the subsequent Steps of the Procedure."
- 2. The following food additive and processing aids provisions of Codex standards have been submitted for endorsement since the 39th Session of the Codex Committee on Food Additives and are listed by:
 - (i) Technological function, INS number and food additive name;
 - (ii) Proposed level;
 - (iii) ADI (mg additive/kg body weight per day); and
 - (iv) Notes.
- 3. The following abbreviations have been used in the preparation of this paper:
 - **INS** International Numbering System for food additives. The INS has been prepared by the Codex Committee on Food Additives for the purpose of providing an agreed international numerical system for identifying food additives in ingredient lists as an alternative to the declaration of the specific name¹.
 - **ADI** Acceptable Daily Intake. An estimate of the amount of a substance in food or drinking-water, expressed on a body-weight basis, that can be ingested daily over a lifetime without appreciable risk (standard human = 60 kg)². The ADI is listed in units of mg per kg of body weight.

¹ Class Names and the International Numbering System for Food Additives (CAC/GL 36-2001).

JECFA Glossary of Terms: http://www.who.int/ipcs/food/jecfa/en/index.html.

ADI "Not Specified". A term applicable to a food substance of very low toxicity which, on the basis of the available data (chemical, biochemical, toxicological, and other), the total dietary intake of the substance arising from its use at the levels necessary to achieve the desired effect and from its acceptable background in food does not, in the opinion of JECFA, represent a hazard to health. For that reason, and for reasons stated in individual evaluations, the establishment of an acceptable daily intake expressed in numerical form is not deemed necessary. An additive meeting this criterion must be used within the bounds of good manufacturing practice, i.e., it should be technologically efficacious and should be used at the lowest level necessary to achieve this effect, it should not conceal inferior food quality or adulteration, and it should not create a nutritional imbalance².

- **ADI "Not Limited"**. A term no longer used by JECFA that has the same meaning as ADI "not specified"².
- **Temporary ADI**. Used by JECFA when data are sufficient to conclude that use of the substance is safe over the relatively short period of time required to generate and evaluate further safety data, but are insufficient to conclude that use of the substance is safe over a lifetime. A higher-thannormal safety factor is used when establishing a temporary ADI and an expiration date is established by which time appropriate data to resolve the safety issue should be submitted to JECFA. The temporary ADI is listed in units of mg per kg of body weight².
- **Conditional ADI**. A term no longer used by JECFA to signify a range above the "unconditional ADI" which may signify an acceptable intake when special problems, different patterns of dietary intake, and special groups of the population that may require consideration are taken into account².
- **No ADI allocated**. There are various reasons for not allocating an ADI, ranging from a lack of information to data on adverse effects that call for advice that a food additive or veterinary drug should not be used at all. The report should be consulted to learn the reasons that an ADI was not allocated².

Acceptable².

<u>Flavouring agents</u>: Used to describe flavouring agents that are of no safety concern at current levels of intake and subsequent reports of meetings on food additives). If an ADI has been allocated to the agent, it is maintained unless otherwise indicated.

<u>Enzyme preparations</u>: Used to describe enzymes that are obtained from edible tissues of animals or plants commonly used as foods or are derived from microorganisms that are traditionally accepted as constituents of foods or are normally used in the preparation of foods. Such enzyme preparations are considered to be acceptable provided that satisfactory chemical and microbiological specifications can be established.

<u>Food additives</u>: Used on some occasions when present uses are not of toxicological concern or when intake is self-limiting for technological or organoleptic reasons.

Acceptable Level of Treatment. ADIs are expressed in terms of mg per kg of body weight per day. In certain cases, however, food additives are more appropriately limited by their levels of treatment. This situation occurs most frequently with flour treatment agents. It should be noted that the acceptable level of treatment is expressed as mg/kg of the commodity. This should not be confused with an ADI².

Good Manufacturing Practice (GMP) in the Use of Food Additives ³ means that:

- the quantity of the additive added to food does not exceed the amount reasonably required to accomplish its intended physical nutritional or other technical effect in food;
- the quantity of the additive that becomes a component of food as a result of its use in the manufacturing, processing or packaging of a food and which is not intended to accomplish

Procedural Manual of the Codex Alimentarius Commission (Definitions)

any physical, or other technological effect in the food itself, is reduced to the extent reasonably possible;

• the additive is of appropriate food grade quality and is prepared and handled in the same way as a food ingredient. Food grade quality is achieved by compliance with the specifications as a whole and not merely with individual criteria in terms of safety.

ENDORSEMENT AND/OR REVISION OF MAXIMUM LEVELS FOR FOOD ADDITIVES IN CODEX COMMODITY STANDARDS

MEAT COMMODITY STANDARDS

The 32nd Session of the Commission agreed to retain the five meat commodity standards, i.e. Standards *for Corned Beef* (CODEX STAN 88-1981); *for Luncheon Meat* (CODEX STAN 89-1981); *for Cooked Ham* (CODEX STAN 96-1981); *for Cooked Cured Pork Shoulder* (CODEX STAN 97-1981); and *for Cooked Cured Chopped Meat* (CODEX STAN 98-1981) and that, as no relevant committee existed to update them, the Secretariat would prepare proposals to update relevant sections, such as food additives and hygiene, for endorsement by the relevant general subject committees and subsequent adoption by the Commission.⁴

The Secretariat prepared the proposal for updating the food additive sections of the five meat commodity standards according to the Section III "Format for Codex Commodity Standards" of the Procedural Manual.

In updating the food additives listing of the five meat commodity standards, the Codex Secretariat made the following changes:

- Food additives provisions listed in relevant food categories of the GSFA were added to the food additives lists, i.e.:
 - Relevant provisions of food category 08.3.2 "Heat-treated processed comminuted meat, poultry, and game products" and in parent categories 08.3 "Processed comminuted meat, poultry, and game products" and 08.0 "Meat and meat products, including poultry and game" were added to CODEX STAN 88-1981, CODEX STAN 89-1981 and CODEX STAN 98-1981;
 - Relevant provisions of food category 08.2.2 "Heat-treated processed meat, poultry, and game products in whole pieces and cuts" and parent categories 08.2 Processed meat, poultry, and game products in whole pieces and cuts" and 08.0 "Meat and meat products, including poultry and game" were added to for CODEX STAN 96-1981 and CODEX STAN 97-1981.
- All food additives listed in Table 3 of the GSFA were removed from the food additives lists and replaced by a sentence to refer to the Table 3 of the GSFA;
- All provisions for flavourings were replaced by a general statement on the use of flavourings;
- The provisions for the carry-over of food additives into foods was replaced with a reference to the corresponding provisions in Section 4 of the GSFA, as agreed by the 32nd Commission⁵; and
- The names of food additives were aligned with the corresponding names of food additives and INS no. listed in Codex *Class Names and International Numbering Systems* (CAC/GL 36-1989).d

Action by 42nd CCFA

The Committee **is invited** to endorse the revised Section of food additives of the Standards *for Corned Beef* (CODEX STAN 88-1981); *for Luncheon Meat* (CODEX STAN 89-1981); *for Cooked Ham* (CODEX STAN 96-1981); *for Cooked Cured Pork Shoulder* (CODEX STAN 97-1981); and *for Cooked Cured Chopped Meat* (CODEX STAN 98-1981), as presented below.

Please Note: Changes and additions are presented in **bold / underlined** font; deletions in double strikethrough font.

⁴ ALINORM 09/32/REP, para. 197

⁵ ALINORM 09/32/REP, para. 97

STANDARD FOR CORNED BEEF (CODEX STAN 88-1981)

4. FOOD ADDITIVES

Antioxidants, colours, emulsifiers, humectans, preservatives and sweeteners listed in Table 3 of the Codex *General Standard for Food Additives* (CODEX STAN 192-1995) are acceptable for use in foods conforming to this standard.

	INS No.		Maximum Ingoing Amount	Notes	Comments
4.1		ANTIOXIDANTS			
4.2.1 4.2.2	300, 301 315, 316	Ascorbic acid and its sodium salt Iso-ascorbic acid and its sodium salt	300 mg/kg (expressed as ascorbic acid singly or in combination)		Listed in Table 3 of the GSFA
	310	Propyl gallate	200 mg/kg	Note 15 - Fat or oil basis; Note 130 - Singly or in combination: butylated hydroxyanisole (INS 320), butylated hydroxytoluene (INS 321), tertiary butylated hydroquinone (INS 319), and propyl gallate (INS 310).	GSFA Table 1 – food category 8.3
	319	Tertiary buthylhydroquinone	100 mg/kg	Note 15 - Singly or in combination; Note 130 - butylated hydroxyanisole (INS 320), butylated hydroxytoluene (INS 321), tertiary butylated hydroquinone (INS 319), and propyl gallate (INS 310); Note 162 - For use in dehydrated products and salami-type products only	GSFA Table 1 – food category 8.3
	320	Butylated hydroxianisole	200 mg/kg	Note 15 - Fat or oil basis; Note 130 - Singly or in combination: butylated hydroxyanisole (INS 320), butylated hydroxytoluene (INS 321), tertiary butylated hydroquinone (INS 319), and propyl gallate (INS 310).	GSFA Table 1 – food category 8.3
	321	Butylated hydroxytoluene	100 mg/kg	Note 15 - Fat or oil basis; Note 130 - Singly or in combination: butylated hydroxyanisole (INS 320), butylated hydroxytoluene (INS 321), tertiary butylated hydroquinone (INS 319), and propyl gallate (INS 310). Note 162 - For use in dehydrated products and salami-type products only.	GSFA Table 1 – food category 8.3
<u>4.2</u>		COLOURS			T
	101(i), (ii)	Riboflavins	1000 mg/kg	Note 16 - For use in glaze, coatings or decorations for fruit, vegetables, meat or fish	GSFA Table 1 - food category 8.3
	<u>110</u>	Sunset yellow FCF	300 mg/kg	Note 16 - For use in glaze, coatings or decorations for fruit, vegetables, meat or fish.	GSFA Table 1 – food category 8.3.2
	120	Carmines	100 mg/kg		GSFA Table 1 – food category 8.3.2

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	INS No.		Maximum Ingoing Amount	Notes	Comments
	129	Allura Red AC	25 mg/kg	Note 161 - Subject to national legislation of the importing country aimed, in particular, at consistency with Section 3.2 of the Preamble.	GSFA Table 1 – food category 8.3.2
	133	Brilliant blue FCF	<u>100/kg</u>	Note 4 - For decoration, stamping, marking or branding the product. Note 16 - For use in glaze, coatings or decorations for fruit, vegetables, meat or fish	GSFA Table 1 – food category 8.0
	<u>150c</u>	Caramel III – ammonia process	<u>GMP</u>	Note 3 - Surface treatment; Note 4 - For decoration, stamping, marking or branding the product; Note 16 - For use in glaze, coatings or decorations for fruit, vegetables, meat or fish.	GSFA Table 1 – food category 8.0
	<u>150d</u>	<u>Caramel IV – sulfite</u> <u>ammonia process</u>	<u>GMP</u>	Note 3 - Surface treatment; Note 4 - For decoration, stamping, marking or branding the product; Note 16 - For use in glaze, coatings or decorations for fruit, vegetables, meat or fish.	GSFA Table 1 – food category 8.0
	<u>160a(ii)</u>	Carotenes, beta- (vegetable)	20 mg/kg		GSFA Table 1 – food category 8.3.2
4.3		EMULSIFIERS			
	<u>474</u>	Sugroglycerides	<u>5000 mg/kg</u>	Note 15 - fat or oil basis	GSFA Table 1 – food category 8.3.2
<u>4.4</u>		<u>HUMECTANTS</u>			
	338; 339(i)- (iii); 340(i)- (iii); 341(i)- (iii); 342(i),(ii); 343(i)- (iii),(v)- (vii); 450(i)- (vii); 451(i),(ii); 452(i)- (v); 542	<u>Phosphates</u>	<u>2200 mg/kg</u>	Note 33 - as phosphorous	GSFA Table 1 – food category 8.3
4.5		PRESERVATIVES		<u> </u>	
4.1.1	<u>249</u> <u>250</u>	Nitrite, potassium and/or sodium salts Nitrite potassium Nitrite sodium	100 mg/kg, total nitrite expressed as sodium nitrite	0-0.06 mg/kg bw	
	<u>200</u>	TALLE SOURIE	Maximum level calculated on the total net content of the final product		
4.1.2	249 250	Nitrite, potassium and/or sodium salts Nitrite potassium Nitrite sodium	50 mg/kg total nitrite expressed as sodium nitrite	0-0.06 mg/kg bw	
4.1.3	508	Potassium chloride	Limited by Good Manufacturing Practice	Not limited	

	INS No.		Maximum Ingoing Amount	Notes	Comments
	<u>385; 386</u>	Ethylene diamine tetra acetates	35 mg/kg	Note 21 - As anhydrous calcium disodium ethylenediaminetetraacetate.	GSFA Table 1 – food category 8.3.2
<u>4.6</u>		SWEETENERS			
	432-436	<u>Polysorbates</u>	5000 mg/kg		GSFA Table 1 – food category 8.3
	954 (i)- (iv)	Saccharins	500 mg/kg	Note 161 - Subject to national legislation of the importing country aimed, in particular, at consistency with Section 3.2 of the Preamble.	GSFA Table 1 – food category 8.3.2

4.7 Carry-over

Section 3 of the Principle relating to the Carry Over of Additives into Food, as set forth in Section 5.2, Volume 1 of the Codex Alimentarius, shall apply.

Carry-over of food additives into foods set forth in Section 4 in the Codex General Standard of Food Additives shall apply.

STANDARD FOR LUNCHEON MEAT (CODEX STAN 89-1981) AND STANDARD FOR COOKED CURED CHOPPED MEAT (CODEX STAN 98-1981)

4. FOOD ADDITIVES

Acidity regulators, antioxidants, colours, emulsifiers, flavour enhancers, humectants, preservatives and sweeteners listed in Table 3 of the Codex General Standard for Food Additives (CODEX STAN 192-1995) are acceptable for use in foods conforming to this standard.

	INS No.		Maximum Ingoing Amount	ADI	Endorsement Status
4.5		ACIDITY REGULATORS			
4.5.1	575	Glucono-delta- lactone	3000 mg/kg	Not specified	
4.5.2	331(iii)	Sodium citrate	Limited by Good Manufacturing Practice	Not limited	
4.1		ANTIOXIDANTS			
4.2.1	300, 301	Ascorbic acid and its sodium salt	500 mg/kg (expressed as ascorbic acid singly or in	Not specified	
4.2.2	315, 316	Iso-ascorbic acid and its sodium salt	combination)	Not specified	
	<u>310</u>	Propyl gallate	<u>200 mg/kg</u>	Note 15 - Fat or oil basis; Note 130 - Singly or in combination: butvlated hydroxyanisole (INS 320), butvlated hydroxytoluene (INS 321), tertiary butvlated hydroquinone (INS 319), and propyl gallate (INS 310).	GSFA Table 1 – food category 8.3
	<u>319</u>	Tertiary buthylhydroquinone	100 mg/kg	Note 15 - Singly or in combination; Note 130 - butylated hydroxyanisole (INS 320), butylated hydroxytoluene (INS 321), tertiary butylated hydroquinone (INS 319), and propyl gallate (INS 310); Note 162 - For use in dehydrated products and salami-type products only	GSFA Table 1 – food category 8.3

	INS No.		Maximum Ingoing	ADI	Endorsement
			Amount		Status
	<u>320</u>	Butylated hydroxianisole	200 mg/kg	Note 15 - Fat or oil basis; Note 130 - Singly or in combination: butylated hydroxyanisole (INS 320), butylated hydroxytoluene (INS 321), tertiary butylated hydroquinone (INS 319), and propyl gallate (INS 310).	GSFA Table 1 – food category 8.3
	321	Butylated hydroxytoluene	<u>100 mg/kg</u>	Note 15 - Fat or oil basis; Note 130 - Singly or in combination: butylated hydroxyanisole (INS 320), butylated hydroxytoluene (INS 321), tertiary butylated hydroquinone (INS 319), and propyl gallate (INS 310). Note 162 - For use in dehydrated products and salami-type products only.	GSFA Table 1 – food category 8.3
4.2		Colours			
	101(i), (ii)	Riboflavins	1000 mg/kg	Note 16 - For use in glaze, coatings or decorations for fruit, vegetables, meat or fish	GSFA Table 1 – food category 8.3
	<u>110</u>	Sunset yellow FCF	300 mg/kg	Note 16 - For use in glaze, coatings or decorations for fruit, vegetables, meat or fish.	GSFA Table 1 – food category 8.3.2
	<u>120</u>	Carmines	100 mg/kg		GSFA Table 1 – food category 8.3.2
4.7.1	127	Erythrosine (CI 45430) to replace loss of colour (for the product with binder only)	15 mg/kg	0-0.1 mg/kg bw	
	129	Allura Red AC	25 mg/kg	Note 161 - Subject to national legislation of the importing country aimed, in particular, at consistency with Section 3.2 of the Preamble.	GSFA Table 1 – food category 8.3.2
	<u>133</u>	Brilliant blue FCF	<u>100/kg</u>	Note 4 - For decoration, stamping, marking or branding the product. Note 16 - For use in glaze, coatings or decorations for fruit, vegetables, meat or fish	GSFA Table 1 – food category 8.0
	<u>150c</u>	Caramel III – ammonia process	GMP	Note 3 - Surface treatment; Note 4 - For decoration, stamping, marking or branding the product; Note 16 - For use in glaze, coatings or decorations for fruit, vegetables, meat or fish.	GSFA Table 1 – food category 8.0
	<u>150d</u>	Caramel IV – sulfite ammonia process	GMP	Note 3 - Surface treatment; Note 4 - For decoration, stamping, marking or branding the product; Note 16 - For use in glaze, coatings or decorations for fruit, vegetables, meat or fish.	GSFA Table 1 – food category 8.0
	<u>160a(ii)</u>	Carotenes, beta- (vegetable)	20 mg/kg		GSFA Table 1 – food category 8.3.2

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	INS No.		Maximum Ingoing Amount	ADI	Endorsement Status
4.3		EMULSIFIERS	AHIVUIII		Status
4.3	<u>474</u>	<u>Sugroglycerides</u>	5000 mg/kg	Note 15 - fat or oil basis	GSFA Table 1 – food category 8.3.2
4.3		FLAVOURS			
4.3.1		Natural flavouring substances and nature identical flavouring substances defined in the Codex Alimentarius	Limited by Good Manufacturing Practice		
4.4		Flavour Enhancers			
4.4.1	627	5'-Guanylate, disodium	Limited by Good Manufacturing Practice	Not specified	
4.4.2	631	5' Inosinate, disodium	Limited by Good Manufacturing Practice	Not specified	
4.4.3	621	Monosodium glutamate	Limited by Good Manufacturing Practice	Not specified	
4.4		WATER RETENTION AGENTS HUMECTANTS			•
4.6.1	338; 339(i)- (iii); 340(i)- (iii); 341(i)- (iii); 342(i),(ii); 343(i)- (iii); 450(i)- (iii),(v)- (vii); 451(i),(ii); 452(i)- (v); 542	Phosphates (naturally present plus added)	8000 mg/kg (expressed as P ₂ 0 ₅)	70 mg/kg bw (MTDI, as phosphorus from all sources)	*1
4.6.2	338; 339(i)- (iii); 340(i)- (iii); 341(i)- (iii); 342(i),(ii); 343(i)- (iii); 450(i)- (iii),(v)- (vii); 451(i),(ii); 452(i)- (v); 542	Added phosphates (mono-, di- and sodium and potassium salts, poly-)	3000 mg/kg (expressed as P ₂ 0 ₅), singly or in combination	70 mg/kg bw (MTDI, as phosphorus from all sources)	*2
4.5	<u> </u>	Preservatives			
4.1.1	249	Nitrite, potassium and/or sodium salts Nitrite potassium	200 mg/kg total nitrite expressed as sodium nitrite	0-0.06 mg/kg bw	
	250	Nitrite sodium	Maximum level calculated on the total net content of the final product		

	INS No.		Maximum Ingoing Amount	ADI	Endorsement Status
4.1.2	249	Nitrite, potassium and/or sodium salts Nitrite potassium	125 mg/kg total nitrite expressed as sodium nitrite	0-0.06 mg/kg bw	
	250	Nitrite sodium		Note 21 - As anhydrous calcium	GSFA Table 1
	385; 386	Ethylene diamine tetra acetates	35 mg/kg	disodium ethylenediaminetetraacetate	- food category 8.3.2
4.1.3	508	Potassium ehloride	Limited by Good Manufacturing Practice	Not limited	
<u>4.6</u>		<u>Sweeteners</u>			
	432-436	<u>Polysorbates</u>	5000 mg/kg		GSFA Table 1 – food category 8.3
	954 (i)- (iv)	Saccharins ⁾	500 mg/kg	Note 161 - Subject to national legislation of the importing country aimed, in particular, at consistency with Section 3.2 of the Preamble.	

^{*1} Natural phosphate (mg/kg P₂0₅) calculated as 250 x % protein

4.7 Flavourings

The flavourings used in products covered by this standard shall comply with the *Guidelines for the Use of Flavourings* (CAC/GL 66-2008).

4.8 Carry-over

Section 3 of the Principle relating to the Carry Over of Additives into Food, as set forth in Section 5.2, Volume 1 of the Codex Alimentarius, shall apply.

Carry-over of food additives into foods set forth in Section 4 in the Codex General Standard of Food Additives shall apply.

STANDARD FOR COOKED CURED HAM (CODEX STAN 96-1981) AND STANDARD FOR COOKED CURED PORK SHOULDER (CODEX STAN 97-1981)

4. FOOD ADDITIVES

Antioxidants, colours, emulsifiers, flavour enhancers, humectants, preservatives and thickeners listed in Table 3 of the *Codex General Standard for Food Additives* (CODEX STAN 192-1995) are acceptable for use in foods conforming to this standard.

	INS No.		Maximum Ingoing Amount	ADI (mg/kg bw)	Endorsement Status
4.1		ANTIOXIDANTS			
4.2.1	300, 301	Ascorbic acid and its sodium salt	500 mg/kg (expressed as ascorbic acid	Not specified	
4.2.2	315, 316	Iso ascorbic acid and its sodium salt	singly or in combination)	Not specified	
	101(i), (ii)	Riboflavins	1000 mg/kg	Note 16 - For use in glaze, coatings or decorations for fruit, vegetables, meat or fish	GSFA Table 1 – food category 8.2
	310	Propyl gallate	200 mg/kg	Note 15 - Fat or oil basis; Note 130 - Singly or in combination: butylated hydroxyanisole (INS 320), butylated hydroxytoluene (INS 321), tertiary butylated hydroquinone (INS 319), and propyl gallate (INS 310).	GSFA Table 1 – food category 8.2

^{*2} Having INS Nos. 339, 340, 450, 451 and 452

	INS No.		Maximum Ingoing Amount	ADI (mg/kg bw)	Endorsement Status
	319	<u>Tertiary</u> <u>buthylhydroquinone</u>	100 mg/kg	Note 15 - Fat or oil basis; Note 130 - Singly or in combination: butylated hydroxyanisole (INS 320), butylated hydroxytoluene (INS 321), tertiary butylated hydroquinone (INS 319), and propyl gallate (INS 310); Note 167 - For use in dehydrated products and salami-type products only.	GSFA Table 1 – food category 8.2
	320	Butylated hydroxianisole	200 mg/kg	Note 15 - Fat or oil basis; Note 130 - Singly or in combination: butvlated hydroxyanisole (INS 320), butylated hydroxytoluene (INS 321), tertiary butvlated hydroquinone (INS 319), and propyl gallate (INS 310).	GSFA Table 1 – food category 8.2
	321	Butylated hydroxytoluene	100 mg/kg	Note 15 - Fat or oil basis; Note 130 - Singly or in combination: butylated hydroxyanisole (INS 320), butylated hydroxytoluene (INS 321), tertiary butylated hydroquinone (INS 319), and propyl gallate (INS 310); Note 167 - For use in dehydrated products and salami-type products only.	GSFA Table 1 – food category 8.2
4.2		Colours	I		I
	<u>110</u>	Sunset yellow FCF	300 mg/kg	Note 16 - For use in glaze, coatings or decorations for fruit, vegetables, meat or fish	GSFA Table 1 – food category 8.2
	<u>120</u>	Carmines	500 mg/kg	Note 16 - For use in glaze, coatings or decorations for fruit, vegetables, meat or fish	GSFA Table 1 – food category 8.2
	133	Brilliant blue FCF	100 mg/kg	Note 4 - For decoration, stamping, marking or branding the product. Note 16 - For use in glaze, coatings or decorations for fruit, vegetables, meat or fish	GSFA Table 1 – food category 8.0
	142	Fast green FCF (2)	100 mg/kg	Note 3 - Surface treatment: Note 4 - For decoration, stamping, marking or branding the product	GSFA Table 1 – food category 8.2
	<u>150c</u>	Caramel III – ammonia process	<u>GMP</u>	Note 3 - Surface treatment; Note 4 - For decoration, stamping, marking or branding the product; Note 16 - For use in glaze, coatings or decorations for fruit, vegetables, meat or fish.	GSFA Table 1 – food category 8.0

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	INS No.		Maximum Ingoing Amount	ADI (mg/kg bw)	Endorsement Status
	<u>150d</u>	Caramel IV – sulfite ammonia process	<u>GMP</u>	Note 3 - Surface treatment; Note 4 - For decoration, stamping, marking or branding the product; Note 16 - For use in glaze, coatings or decorations for fruit, vegetables, meat or fish.	GSFA Table 1 – food category 8.0
	<u>160a(ii)</u>	Carotenes, beta- (vegetable)	5000 mg/kg	Note 16 - For use in glaze, coatings or decorations for fruit, vegetables, meat or fish	GSFA Table 1 – food category 8.2
4.3		EMULSIFIERS			
	<u>474</u>	Sugroglycerides	5,000 mg/kg	Note 15 - fat or oil basis	GSFA Table 1 – food category 8.2.2
4.3		FLAVOURS			
4.3.1		Natural flavouring substances and nature- identical flavouring substances defined in the Codex Alimentarius	Limited by Good Manufacturing Practice		
4.2.2		Smoke flavourings as	Limited by Good		
4.3.2		evaluated by JECFA	Manufacturing Practice		
4.4		Flavour Enhancers			
4.4.1	627	5' Guanylate, disodium	Limited by Good Manufacturing Practice	Not specified	
4.4.2	631	5'-Inosinate, disodium	Limited by Good Manufacturing Practice	Not specified	
4.4.3	621	Monosodium glutamate	Limited by Good Manufacturing Practice	Not specified	
4.5		Acidity Regulators			
4.5.1	331(iii)	Citrate, sodium salt	Limited by Good Manufacturing Practice	Not limited	
4.4		WATER RETENTION AGENTS HUMECTANTS			
4.6.1	338; 339(i)- (iii); 340(i)- (iii); 341(i)- (iii); 342(i),(ii); 450(i)- (iii),(v)- (vii); 451(i),(ii); 452(i)-(v); 542	Phosphates (naturally present plus added)	8000 mg/kg (expressed as $P_20_5)$	70 mg/kg bw (MTDI, as phosphorus from all sources)	*1
4.6.2	338; 339(i)- (iii); 340(i)- (iii); 341(i)- (iii); 342(i),(ii); 343(i)-(iii); 450(i)- (iii),(v)- (vii); 451(i),(ii); 452(i)-(v); 542	Added phosphates (mono-, di- and poly-), sodium and potassium salts	3000 mg/kg (expressed as P_2O_5), singly or in combination	70 mg/kg bw (MTDI, as phosphorus from all sources)	*2

	INS No.		Maximum Ingoing Amount	ADI (mg/kg bw)	Endorsement Status
4.5		PRESERVATIVES			
4.1.1	249	Nitrite, potassium and/or sodium salts expressed as sodium nitrite Nitrite potassium	200 mg/kg total nitrite	0-0.06 mg/kg bw	
	250	Nitrite sodium			
			Maximum Level Calculated on the Total Net Content of the Final Product		
4.1.2	249	Nitrite, potassium and/or sodium salts expressed as sodium nitrite Nitrite potassium Nitrite sodium	125 mg/kg total nitrite	0-0.06 mg/kg bw	
			Limited by Good		
4.1.3	508	Potassium ehloride	Manufacturing Practice	Not limited	
4.7		THICKENERS			
4.7.1	406	Agar	Limited by Good Manufacturing Practice	Not limited	
4.7.2	407	Carrageenan	Limited by Good Manufacturing Practice	Not specified	
4.7.3	401, 402	Alginates, potassium and/or sodium salts	10 mg/kg	Not specified	
<u>4.6</u>		<u>Sweeteners</u>			
	432-436	<u>Polysorbates</u>	5000 mg/kg		GSFA Table 1 - food category 8.2
	954 (i)-(iv)	Saccharins	500 mg/kg	Note 161 - Subject to national legislation of the importing country aimed, in particular, at consistency with Section 3.2 of the Preamble.	GSFA Table 1 – food category 8.2.2

^{*1} Natural phosphate (mg/kg P_20_5) calculated as 250 x % protein.

4.8 Flavourings

The flavourings used in products covered by this standard shall comply with the *Guidelines for the Use of Flavourings* (CAC/GL 66-2008).

4.3 Carry-over

Section 3 of the Principle relating to the Carry Over of Additives into Food, as set forth in Section 5.2, Volume 1 of the Codex Alimentarius, shall apply.

Carry-over of food additives into foods set forth in Section 4 in the Codex General Standard of Food Additives shall apply.

^{*2} Having INS Nos. 339, 340, 450, 451 and 452.

COMMITTEE ON FISH AND FISHERY PRODUCTS (CCFFP) 6

The 30th Session of CCFFP confirmed that the annatto extracts approved for use in the *Standard for Quick Frozen Fish* Sticks (Fish Fingers), Fish Portions and Fish Fillets – Breaded or in Batter (CODEX STAN 166-1989) should be bixin- and norbixin-based and agreed that the current maximum level should be changed to 25 mg/kg for both and to inform the CCFA.

Action by 42nd CCFA

The Committee **is invited** to endorse the revised maximum levels of 25 mg/kg for both annatto extracts bixin based (INS 160b(i)) and annatto extracts norbixin based (INS 160b(ii)) in the *Standard for Quick Frozen Fish* Sticks (Fish Fingers), Fish Portions and Fish Fillets – Breaded or in Batter (CODEX STAN 166-1989).

COMMITTEE ON MILK AND MILK PRODUCTS (CCMMP)

Inconsistent presentation of food additive provisions in Codex standards for milk and milk products⁷

The 9th Session of CCMMP reviewed the lists of food additives in 29 standards for milk and milk products to identify inconsistencies of an editorial nature by comparing these lists with the Codex *Class Names and International Numbering System* (CAC/GL 36-1989). The revised food additive lists are attached as Annex 1 to this document.

In addition to amendments of editorial nature, the 9th CCMMP noted that the maximum levels of sodium nitrate (INS 251) and potassium nitrate (INS 252) in the standards *for Cheddar* (CODEX STAN 263-1966) and *Danbo* (CODEX STAN 264-1966) stated 37 mg/kg and in the standards *for Edam* (CODEX STAN 265-1966), *Gouda* (CODEX STAN 266-1966), *Havarti* (CODEX STAN 267-1966), *Samsoe* (CODEX STAN 268-1966), *Tilsiter* (CODEX STAN 270-1968), *St. Paulin* (CODEX STAN 271-1968), *Emmental* (CODEX STAN 269-1967) and *Provolone* (CODEX STAN 272-1968) stated 35 mg/kg. The Committee noted that this inconsistency was due to a different rounding in converting the expression of these maximum levels from "sodium nitrate" to "nitrate ion". In order to ensure consistency among all standards for individual cheese, the Committee agreed to revise the maximum levels for sodium and potassium nitrate in standards *for Cheddar* and *Danbo* to 35 mg/kg.

Action by 42nd CCFA

The Committee **is invited** to endorse the revise maximum levels of 35 mg/kg for sodium and potassium nitrate in standards *for Cheddar* (CODEX STAN 263-1966) and *Danbo* (CODEX STAN 264-1966).

Inconsistencies in functional class / Listing of functional class not listed in CAC/GL 36-1989⁸

The 9th CCMMP noted that sodium gluconate (INS 576) in the *Group Standard for Unripened Cheese*, *Including Fresh Cheese* (CODEX STAN 221-2001) was listed as a stabilizer/thickener and that this technological purpose was not listed in CAC/GL 36-1989 for this additive. Therefore, the Committee agreed to request the Codex Committee on Food Additives (CCFA) to consider the addition of stabilizer/thickener function to sodium gluconate (INS 576).

The Committee noted that the *Standard for Edible Casein Products* (CODEX STAN 290-1995) included the functional class "neutralizing agents", which was not listed in CAC/GL 36-1989. Since functional class "acidity regulators" included similar technological purposes, e.g. alkali, base, buffer, buffering agent, pH adjusting agent, the Committee agreed to delete "neutralizing agents" and move all food additives associated with this functional class under "acidity regulators". The Committee further agreed to request the CCFA to consider the addition of acidity regulator technological purpose to calcium carbonates (INS 170) for consistency.

Action by 42nd CCFA

The Committee **is invited** to consider these matters under Agenda item 7(a).

⁶ ALINORM 10/33/18, para. 11

⁷ ALINORM 10/33/11, paras 63-67 and Appendix IV

⁸ ALINORM 10/33/11, paras 71 and 73

Maximum levels (500 mg/kg) for lycopenes in the Standard for Fermented Milks⁹

In response to the request of the 40th Session of the CCFA to clarify the type of lycopene on which were based the maximum levels (500 mg/kg) for lycopenes in the *Standard for Fermented Milks* as well the technical justification for these levels (ALINORM 09/31/12, para. 47), the Committee agreed to reply to the CCFA that:

- The types of lycopenes included: lycopene (synthetic) (INS 160d(i)); lycopene (tomato) (INS 160d(ii)); and lycopene (*Blakeslea trispora*) (INS 160d(iii)); and
- The technical justification for these levels was to provide a consistent colour definition to flavoured fermented milks and flavoured drinks based on fermented milks.

The European Union supported by Switzerland reiterated their strong opposition to the level proposed for lycopenes at 500 mg/kg, emphasized that such a high level was not technologically justified, stressed their concerns regarding the safety of use of lycopenes at such levels and underlined that clarification from JECFA would be welcomed.

Action by 42nd CCFA

The Committee **is invited** to reconsider the endorsement of the provisions for lycopenes in Codex *Standard* for Fermented Milks, including the amendments pertaining to Drinks Based on Fermented Milk, on the basis of the clarification provided by the 9th CCMMP.

Amendments to the Codex Standard for Fermented Milks (CODEX STAN 243-2003), pertaining to Drinks based on Fermented Milk¹⁰

The 9th CCMMP agreed to include "carbonating agents" in the table listing the functional classes of food additives technologically justified for use in all four categories of drinks based on fermented milk and to add carbon dioxide at GMP level in the list of food additives.

The underlined texts should be added in Section 4 of Standard for Fermented Milks (CODEX STAN 243-2003):

4. FOOD ADDITIVES

In accordance with Section 4.1 of the Preamble to the *General Standard for Food Additives* (CODEX STAN 192-1985), additional additives may be present in the flavoured fermented milks and <u>drinks based on fermented milk</u> as a result of carry-over from non-dairy ingredients.

Additive Functional Class	Fermented Milks <u>and Drinks</u> <u>based on Fermented Milk</u>		Fermented Milks Heat Treated After Fermentation and Drinks Based on Fermented Milk Heat Treated After Fermentation	
	Plain	Flavoured	Plain	Flavoured
Acidity regulators	-	X	X	X
Acids	-	X	X	X
Carbonating agents	<u>X</u> ²	\underline{X}^2	\underline{X}^2	<u>X</u> ²
Colours	-	X	-	X
Emulsifiers	-	X	-	X
Flavour Enhancers	-	X	-	X
Packaging gases	-	X	X	X
Preservatives	-	-	-	X

⁹ ALINORM 10/33/11 paras 75-76

¹⁰ ALINORM 10/33/11, para. 34 and Appendix II

Stabilizers	X	X	X	X
Sweeteners	-	X	-	X
Thickeners	X^{1}	X	X	X

- X =The use of additives belonging to the class is technologically justified. In the case of flavoured products the additives are technologically justified in the dairy portion.
- = The use of additives belonging to the class is not technologically justified
- 1 = Use is restricted to reconstitution and recombination and if permitted by national legislation in the country of sale to the final consumer.
- 2 = The use of carbonating agents is technologically justified in Drinks based on Fermented Milk only.

(The following food additive provision should be added to the list of the individual food additives allowed for the products covered by the Standard - see Appendix VI of ALINORM 08/31/11)

Carbonatin	ng agents		<u>ADI</u>	Endorsement Status
<u>290</u>	Carbon dioxide	<u>GMP</u>	Not Specified	

Action by 42nd CCFA

The Committee **is invited** to endorse the provision carbon dioxide (INS 290) for use in all four categories of drinks based on fermented milk.

Annex 1

REVISED FOOD ADDITIVES LISTINGS IN CODEX STANDARDS FOR MILK AND MILK PRODUCTS 11

STANDARD FOR MILK POWDERS AND CREAM POWDER (CODEX STAN 207-1999)

INS No.	1. Name	Maximum Level
2. S	tabilizers	•
331	3. Sodium citrates	4. 5000 m g/kg singly or in
332	6. Potassium citrates	combination, 5. expressed as anhydrous substances
7. F	irming agents	
508	Potassium chloride	Limited by GMP
509	Calcium chloride	Limited by GMP
Acidity Re	gulators	•
339	Sodium phosphates	
340	Potassium phosphates	
450	Diphosphates	5000 m g/kg singly or in combination
451	Triphosphates	expressed as anhydrous substances
452	Polyphosphates	
500	Sodium carbonates	
501	Potassium carbonates	
Emulsifier	rs	
322	Lecithins (or phospholipids from natural sources)	Limited by GMP
471	Mono- and di- glycerides of fatty acids	2500 m g/kg
Anticaking Agents		
170(i)	Calcium carbonate	
341(iii)	Tricalcium ortho phosphate	
343(iii)	Trimagnesium erthephosphate	
504(i)	Magnesium carbonate	
530	Magnesium oxide	10000 //
551	Silicon dioxide, amorphous	10000 mg/kg singly or in combination
552	Calcium silicate	
553	Magnesium silicates	
554	Sodium aluminosilicate	
556	Calcium aluminium silicate	
559	Aluminium silicate	
Antioxida		
300	₽Ascorbic acid (L-)	500 mg/kg expressed as ascorbic acid
301	Sodium ascorbate	
304	Ascorbyl palmitate	
320	Butylated hydroxyanisole (BHA)	0.01% m / <u>m 100 mg/kg</u>

GROUP STANDARD FOR CHEESES IN BRINE (CODEX STAN 208-1999)

INS No	Name	8.	Maximum Level
9. A	cidity regulators		
270	10. Lactic acid (L-, D-, and DL-)	11.	Limited by GMP
575	12. Glucono delta-lactone (GDL)	13.	Limited by GMP

GROUP STANDARD FOR UNRIPENED CHEESE INCLUDING FRESH CHEESE (CODEX STAN 221-2001)

INS No.	Name	Maximum Level
Acid		
260	Acetic acid, (glacial)	Limited by GMP
270	Lactic acid (L-, D-, and DL-)	Limited by GMP
296	Malic acid (DL-)	Limited by GMP
330	Citric acid	Limited by GMP
338	OrthopPhosphoric acid	2 g/kg expressed as P ₂ O ₂
507	Hydrochloric acid	Limited by GMP

 $^{^{11}}$ Editorial amendments are presented as follows: deletion in $\frac{\text{strikethrough}}{\text{font}}$ font and addition in $\frac{\text{bold / underlined}}{\text{font}}$.

INS No.	Name	Maximum Level
Acidity Re		ividxiiiidiii Eevei
170	Calcium carbonates	Limited by GMP
260	Acetic acid, (glacial)	Limited by GMP
<u>270</u>	Lactic acid (L-, D-, and DL-)	<u>Limited by GMP</u>
<u>296</u>	Malic acid (DL-)	Limited by GMP
330	Citric acid	<u>Limited by GMP</u>
<u>338</u>	OrthopPhosphoric acid	2 g/kg expressed as P ₂ O ₂ 880 mg/kg expressed as
		phosphorus
500	Sodium carbonates	Limited by GMP
501	Potassium carbonates	Limited by GMP
507 575	Hydrochloric acid Glucono delta-lactone (GDL)	Limited by GMP Limited by GMP
	/thickeners	Limited by GMP
		in compliance with the definition for milk products and only to the
	are functionally necessary taking into account any use of	
331	Sodium citrates	Limited by GMP
332	Potassium citrates	Limited by GMP
333	Calcium citrates	Limited by GMP
339	Sodium phosphates	
340	Potassium phosphates	
341	Calcium phosphates	1540 mg/kg, singly or in combination, expressed as
450(i)	Disodium diphosphate	phosphorus 3.5 g/kg, singly or in combination, expressed
450(ii)	Trisodium diphosphate	$as P_2O_5$
541	Sodium aluminium phosphate	
400	Alginic acid	Limited by GMP
401	Sodium alginate	Limited by GMP
402	Potassium alginate	Limited by GMP
403	Ammonium alginate	Limited by GMP
404	Calcium alginate	Limited by GMP
405	Propylene glycol alginate	5 mg/kg
406	Agar	Limited by GMP
407	Carrageenan and its Na, K, NH4 salts (includes Furcelleran)	Limited by GMP
410	Carob bean gum	Limited by GMP
412	Guar gum	Limited by GMP
413	Tragacanth gum	Limited by GMP
415	Xanthan gum	Limited by GMP
416	Karaya gum	Limited by GMP
417	Tara gum	Limited by GMP
440	Pectins	Limited by GMP
460	Celluloses	Limited by GMP
466	Sodium carboxymethyl cellulose (cellulose gum)	Limited by GMP
576	Sodium gluconate	Limited by GMP
	tarches as follows:	Limited by CMD
1400 1401	Dextrins, roasted starch white and yellow Acid-treated starch	Limited by GMP Limited by GMP
1401	Acid-treated starch Alkaline treated starch	Limited by GMP Limited by GMP
1402	Bleached starch	Limited by GMP Limited by GMP
1403	Oxidized starch	Limited by GMP Limited by GMP
1404	Starches, enzyme-treated	Limited by GMP
1410	Monostarch phosphate	Limited by GMP
1110	Distarch phosphate esterified with sodium	Zimiwa oj Oria
1412	trimetasphosphate; esternfied with phosphorus	Limited by GMP
	exychloride	
1413	Phosphated distarch phosphate	Limited by GMP
1414	Acetylated distarch phosphate	Limited by GMP
1420	Starch acetate esterified with acetic anhydride	Limited by GMP
1421	Starch acetate esterified with vinyl acetate	Limited by GMP
1422	Acetylated distarch adipate	Limited by GMP
1440	Hydroxypropyl starch	Limited by GMP
1442	Hydroxypropyl distarch phosphate	Limited by GMP
Colours		
100	Curcumins (for edible cheese rind)	Limited by GMP

INS No.	Name	Maximum Level	
101	Riboflavins	Limited by GMP	
140	Chlorophylls	Limited by GMP	
141	Chlorophylls and chlorophyllins, copper complexes	15 mg/kg, singly or combined	
160a(i)	β-Carotenes, beta-, (synthetic)	25 mg/kg	
160a(ii)	Carotenes, <i>beta</i> - (natural extracts vegetable)	600 mg/kg	
160b(ii)	Annatto extracts —norbixin-based	25 mg/kg	
160c	Paprika oleoresin	Limited by GMP	
160e	β-apo-<u>8</u>´ Carotenal, beta-apo-8'-	35 mg/kg	
160f	B-apo-8'-Carotenoic acid, methyl or ethyl ester, beta-apo-8'	35 mg/kg	
162	Beet red	Limited by GMP	
171	Titanium dioxide	Limited by GMP	
Preservati	ves		
200	Sorbic acid	1000 mg/kg of cheese, singly or in combination,	
202	Potassium sorbate	expressed as sorbic acid	
203	Calcium sorbate		
234	Nisin	12.5 mg/kg	
280	Propionic acid	Limited by GMP	
281	Sodium propionate	Limited by GMP	
282	Calcium propionate	Limited by GMP	
283	Potassium propionate	Limited by GMP	
	e/rind treatment only:		
235	Pimariein (natamyein) Natamycin (pimaricin)	2 mg/dm ² of surface. Not present in a depth of 5mm	
	gents (for whipped products only)		
290	Carbon dioxide	Limited by GMP	
941	Nitrogen	Limited by GMP	
	, shredded and grated products only (surface treatm	ent)	
Anticaking			
460	Cellulose <u>s</u>	Limited by GMP	
551	Silicon dioxide, amorphous		
552	Calcium silicate		
553	Magnesium silicates	10000 mg/kg singly or in combination. Silicates calculated	
554	Sodium aluminosilicate	as silicon dioxide	
556	Calcium aluminium silicate		
559	Aluminium silicate		
560	Potassium silicate		
Preservati			
200	Sorbic acid	1000 mg/kg of cheese, singly or in combination,	
202	Potassium sorbate	expressed as sorbic acid	
203	Calcium sorbate	<u> </u>	
280	Propionic acid	Limited by GMP	
281	Sodium propionate	Limited by GMP	
282	Calcium propionate	Limited by GMP	
283	Potassium propionate	Limited by GMP	
235	Pimaricin (natamycin) Natamycin (pimaricin)	20 mg/kg applied to the surface added duringkneading and stretching process	

STANDARDS FOR FERMENTED MILKS (CODEX STAN 243-2003)

INS No.	Name of Additive	Maximum Level
Acidity Regu	ılators	
334	Tartaric acid (L(+)-)	
335(i)	Monosodium tartrate	
335(ii)	Sodium L(+)Disodium tartrate-tartrate	2000 mg/kg as tartaric acid
336(i)	Monopotassium tartrate	2000 mg/kg as tartaire acid
336(ii)	Dipotassium tartrate	
337	Potassium sodium $\underline{\mathbf{L}(+)}$ -tartrate	
355	Adipic acid	
356	Sodium adipates	1500
357	Potassium adipates	1500 mg/kg, as adipic acid
359	Ammonium adipates	

INS No.	Name of Additive	Maximum Level
Colours		
100(i)	Curcumin	100 mg/kg
101(i)	Riboflavin <u>, synthetic</u>	300 mg/kg
101(ii)	Riboflavin 5'-phosphate sodium	
102	Tartrazine	300 mg/kg
104	Quinoline yellow	150 mg/kg
110	Sunset yellow FCF	300 mg/kg
120	Carmines	150 mg/kg
122	Azorubine (carmoisine)	150 mg/kg
124	Ponceau 4R (Cochineal red A)	150 mg/kg
29	Allura red AC	300 mg/kg
132	Indigotine (Indigo carmine)	100 mg/kg
133	Brilliant blue FCF	150 mg/kg
141(i)	Chlorophylls, copper complexes	
1.41(::)	Chlorophyllins, copper complexes, potassium and sodium Na and K	500 mg/kg
141(ii)	salts	
143	Fast green FCF	100 mg/kg
150b	Caramel II - caustic sulfite sulphite process	150 mg/kg
150c	Caramel III – ammonia process	2000 mg/kg
150d	Caramel IV – sulfite sulphite ammonia process	2000 mg/kg
151	Brilliant black (Black PN)	150 mg/kg
155	Brown HT	150 mg/kg
160a(i)	beta-Carotene, beta-, (Ssynthetic)	130 Hig/kg
160a(1)	beta apo 8' Carotenal, beta-apo-8'-	
160f		100 mg/kg
	beta apo 8'Carotenoic acid, Methyl or ethyl ester, beta-apo-8'-	
160a(iii)	beta-Carotenes, beta- (Blakeslea trispora)	(00 //
160a(ii)	beta-Carotenes, beta- (vegetable)	600 mg/kg
160b(i)	Annatto extracts, bixin-based	20 mg/kg as bixin
160b(ii)	Annatto extracts, norbixin-based	20 mg/kg as norbixin
160d	Lycopene <u>s</u>	500 mg/kg
161b(i)	Lutein from Tagetes erecta	150 mg/kg
161h(i)	Zeaxanthin (synthetic)	150 mg/kg
163(ii)	Grape skin extract	100 mg/kg
172(i)	Iron oxide, black	
172(ii)	Iron oxide, red	100 mg/kg
172(iii)	Iron oxide, yellow	
Emulsifiers		
432	Polyoxyethylene (20) sorbitan monolaurate	
433	Polyoxyethylene (20) sorbitan monooleate	
434	Polyoxyethylene (20) sorbitan monopalmitate	3000 mg/kg
		3000 HIZ/KZ
435	Polyoxyethylene (20) sorbitan monostearate	3000 Hig/kg
	Polyoxyethylene (20) sorbitan monostearate Polyoxyethylene (20) sorbitan tristearate	3000 Hig/kg
436	Polyoxyethylene (20) sorbitan tristearate	
436 472e	Polyoxyethylene (20) sorbitan tristearate Diacetyltartaric and fatty acid esters of glycerol	10000 mg/kg
436 472e 473	Polyoxyethylene (20) sorbitan tristearate Diacetyltartaric and fatty acid esters of glycerol Sucrose esters of fatty acids	10000 mg/kg 5000 mg/kg
436 472e 473 474	Polyoxyethylene (20) sorbitan tristearate Diacetyltartaric and fatty acid esters of glycerol Sucrose esters of fatty acids Sucroglycerides	10000 mg/kg 5000 mg/kg 5000 mg/kg
436 472e 473 474 475	Polyoxyethylene (20) sorbitan tristearate Diacetyltartaric and fatty acid esters of glycerol Sucrose esters of fatty acids Sucroglycerides Polyglycerol esters of fatty acids	10000 mg/kg 5000 mg/kg 5000 mg/kg 2000 mg/kg
436 472e 473 474 475 477	Polyoxyethylene (20) sorbitan tristearate Diacetyltartaric and fatty acid esters of glycerol Sucrose esters of fatty acids Sucroglycerides Polyglycerol esters of fatty acids Propylene glycol esters of fatty acids	10000 mg/kg 5000 mg/kg 5000 mg/kg 2000 mg/kg 5000 mg/kg
436 472e 473 474 475 477 481(i)	Polyoxyethylene (20) sorbitan tristearate Diacetyltartaric and fatty acid esters of glycerol Sucrose esters of fatty acids Sucroglycerides Polyglycerol esters of fatty acids Propylene glycol esters of fatty acids Sodium stearoyl lactylate	10000 mg/kg 5000 mg/kg 5000 mg/kg 2000 mg/kg 5000 mg/kg 10000 mg/kg
436 472e 473 474 475 477 481(i) 482(i)	Polyoxyethylene (20) sorbitan tristearate Diacetyltartaric and fatty acid esters of glycerol Sucrose esters of fatty acids Sucroglycerides Polyglycerol esters of fatty acids Propylene glycol esters of fatty acids Sodium stearoyl lactylate Calcium stearoyl lactylate	10000 mg/kg 5000 mg/kg 5000 mg/kg 2000 mg/kg 5000 mg/kg
436 472e 473 474 475 477 481(i) 482(i) 491	Polyoxyethylene (20) sorbitan tristearate Diacetyltartaric and fatty acid esters of glycerol Sucrose esters of fatty acids Sucroglycerides Polyglycerol esters of fatty acids Propylene glycol esters of fatty acids Sodium stearoyl lactylate Calcium stearoyl lactylate Sorbitan monostearate	10000 mg/kg 5000 mg/kg 5000 mg/kg 2000 mg/kg 5000 mg/kg 10000 mg/kg
436 472e 473 474 475 477 481(i) 482(i) 491	Polyoxyethylene (20) sorbitan tristearate Diacetyltartaric and fatty acid esters of glycerol Sucrose esters of fatty acids Sucroglycerides Polyglycerol esters of fatty acids Propylene glycol esters of fatty acids Sodium stearoyl lactylate Calcium stearoyl lactylate Sorbitan monostearate Sorbitan tristearate	10000 mg/kg 5000 mg/kg 5000 mg/kg 2000 mg/kg 5000 mg/kg 10000 mg/kg 10000 mg/kg
436 472e 473 474 475 477 481(i) 482(i) 491 492 493	Polyoxyethylene (20) sorbitan tristearate Diacetyltartaric and fatty acid esters of glycerol Sucrose esters of fatty acids Sucroglycerides Polyglycerol esters of fatty acids Propylene glycol esters of fatty acids Sodium stearoyl lactylate Calcium stearoyl lactylate Sorbitan monostearate Sorbitan monolaurate	10000 mg/kg 5000 mg/kg 5000 mg/kg 2000 mg/kg 5000 mg/kg 10000 mg/kg
436 472e 473 474 475 477 481(i) 482(i) 491 492 493 494	Polyoxyethylene (20) sorbitan tristearate Diacetyltartaric and fatty acid esters of glycerol Sucrose esters of fatty acids Sucroglycerides Polyglycerol esters of fatty acids Propylene glycol esters of fatty acids Sodium stearoyl lactylate Calcium stearoyl lactylate Sorbitan monostearate Sorbitan monolaurate Sorbitan monoleate	10000 mg/kg 5000 mg/kg 5000 mg/kg 2000 mg/kg 5000 mg/kg 10000 mg/kg 10000 mg/kg
436 472e 473 474 475 477 481(i) 482(i) 491 492 493 494 495	Polyoxyethylene (20) sorbitan tristearate Diacetyltartaric and fatty acid esters of glycerol Sucrose esters of fatty acids Sucroglycerides Polyglycerol esters of fatty acids Propylene glycol esters of fatty acids Sodium stearoyl lactylate Calcium stearoyl lactylate Sorbitan monostearate Sorbitan tristearate Sorbitan monolaurate Sorbitan monopalmitate	10000 mg/kg 5000 mg/kg 5000 mg/kg 2000 mg/kg 5000 mg/kg 10000 mg/kg 10000 mg/kg
436 472e 473 474 475 477 481(i) 482(i) 491 492 493 494 495 900a	Polyoxyethylene (20) sorbitan tristearate Diacetyltartaric and fatty acid esters of glycerol Sucrose esters of fatty acids Sucroglycerides Polyglycerol esters of fatty acids Propylene glycol esters of fatty acids Sodium stearoyl lactylate Calcium stearoyl lactylate Sorbitan monostearate Sorbitan tristearate Sorbitan monolaurate Sorbitan monopalmitate Polydimethylsiloxane	10000 mg/kg 5000 mg/kg 5000 mg/kg 2000 mg/kg 5000 mg/kg 10000 mg/kg 10000 mg/kg
436 472e 473 474 475 477 481(i) 482(i) 491 492 493 494 495 900a Flavour Enhar	Polyoxyethylene (20) sorbitan tristearate Diacetyltartaric and fatty acid esters of glycerol Sucrose esters of fatty acids Sucroglycerides Polyglycerol esters of fatty acids Propylene glycol esters of fatty acids Sodium stearoyl lactylate Calcium stearoyl lactylate Sorbitan monostearate Sorbitan tristearate Sorbitan monolaurate Sorbitan monopalmitate Polydimethylsiloxane	10000 mg/kg 5000 mg/kg 5000 mg/kg 2000 mg/kg 5000 mg/kg 10000 mg/kg 10000 mg/kg 5000 mg/kg
436 472e 473 474 475 477 481(i) 482(i) 491 492 493 494 495 900a Flavour Enhar 580	Polyoxyethylene (20) sorbitan tristearate Diacetyltartaric and fatty acid esters of glycerol Sucrose esters of fatty acids Sucroglycerides Polyglycerol esters of fatty acids Propylene glycol esters of fatty acids Sodium stearoyl lactylate Calcium stearoyl lactylate Sorbitan monostearate Sorbitan tristearate Sorbitan monolaurate Sorbitan monopalmitate Polydimethylsiloxane meers Magnesium gluconate	10000 mg/kg 5000 mg/kg 5000 mg/kg 2000 mg/kg 5000 mg/kg 10000 mg/kg 10000 mg/kg 5000 mg/kg 5000 mg/kg
436 472e 473 474 475 477 481(i) 482(i) 491 492 493 494 495 900a Flavour Enhar 580 620	Polyoxyethylene (20) sorbitan tristearate Diacetyltartaric and fatty acid esters of glycerol Sucrose esters of fatty acids Sucroglycerides Polyglycerol esters of fatty acids Propylene glycol esters of fatty acids Sodium stearoyl lactylate Calcium stearoyl lactylate Sorbitan monostearate Sorbitan tristearate Sorbitan monolaurate Sorbitan monopalmitate Polydimethylsiloxane neers Magnesium gluconate Glutamic acid (L+)-)	10000 mg/kg 5000 mg/kg 5000 mg/kg 2000 mg/kg 5000 mg/kg 10000 mg/kg 10000 mg/kg 5000 mg/kg
436 472e 473 474 475 477 481(i) 482(i) 491 492 493 494 495 900a Flavour Enhar 580 620 621	Polyoxyethylene (20) sorbitan tristearate Diacetyltartaric and fatty acid esters of glycerol Sucrose esters of fatty acids Sucroglycerides Polyglycerol esters of fatty acids Propylene glycol esters of fatty acids Sodium stearoyl lactylate Calcium stearoyl lactylate Sorbitan monostearate Sorbitan tristearate Sorbitan monolaurate Sorbitan monopalmitate Polydimethylsiloxane meers Magnesium gluconate	10000 mg/kg 5000 mg/kg 5000 mg/kg 2000 mg/kg 10000 mg/kg 10000 mg/kg 10000 mg/kg 5000 mg/kg 6000 mg/kg
436 472e 473 474 475 477 481(i) 482(i) 491 492 493 494 495 900a Flavour Enhar 580 620 621	Polyoxyethylene (20) sorbitan tristearate Diacetyltartaric and fatty acid esters of glycerol Sucrose esters of fatty acids Sucroglycerides Polyglycerol esters of fatty acids Propylene glycol esters of fatty acids Sodium stearoyl lactylate Calcium stearoyl lactylate Sorbitan monostearate Sorbitan tristearate Sorbitan monolaurate Sorbitan monopalmitate Polydimethylsiloxane neers Magnesium gluconate Glutamic acid (L+)-)	10000 mg/kg 5000 mg/kg 5000 mg/kg 2000 mg/kg 10000 mg/kg 10000 mg/kg 10000 mg/kg 5000 mg/kg GMP GMP
436 472e 473 474 475 477 481(i) 482(i) 491 492 493 494 495 900a Flavour Enhar 580 620 621 622	Polyoxyethylene (20) sorbitan tristearate Diacetyltartaric and fatty acid esters of glycerol Sucrose esters of fatty acids Sucroglycerides Polyglycerol esters of fatty acids Propylene glycol esters of fatty acids Sodium stearoyl lactylate Calcium stearoyl lactylate Sorbitan monostearate Sorbitan tristearate Sorbitan monolaurate Sorbitan monopalmitate Polydimethylsiloxane meers Magnesium gluconate Glutamic acid (L+)-) Monosodium L-glutamate, L- Monopotassium L-glutamate, L-	10000 mg/kg 5000 mg/kg 5000 mg/kg 2000 mg/kg 10000 mg/kg 10000 mg/kg 10000 mg/kg 5000 mg/kg 6000 mg/kg
436 472e 473 474 475 477 481(i) 482(i) 491 492 493 494 495 900a Flavour Enhar 580 620 621 622 623	Polyoxyethylene (20) sorbitan tristearate Diacetyltartaric and fatty acid esters of glycerol Sucrose esters of fatty acids Sucroglycerides Polyglycerol esters of fatty acids Propylene glycol esters of fatty acids Sodium stearoyl lactylate Calcium stearoyl lactylate Sorbitan monostearate Sorbitan tristearate Sorbitan monolaurate Sorbitan monopalmitate Polydimethylsiloxane neers Magnesium gluconate Glutamic acid (L+)-) Monosodium L-glutamate, L- Calcium di-L-glutamate, di L-	10000 mg/kg 5000 mg/kg 5000 mg/kg 2000 mg/kg 10000 mg/kg 10000 mg/kg 10000 mg/kg 5000 mg/kg 6000 mg/kg
436 472e 473 474 475 477 481(i) 482(i) 491 492 493 494 495 900a Flavour Enhar 580 620 621 622 623 624	Polyoxyethylene (20) sorbitan tristearate Diacetyltartaric and fatty acid esters of glycerol Sucrose esters of fatty acids Sucroglycerides Polyglycerol esters of fatty acids Propylene glycol esters of fatty acids Sodium stearoyl lactylate Calcium stearoyl lactylate Sorbitan monostearate Sorbitan monolaurate Sorbitan monolaurate Sorbitan monopalmitate Polydimethylsiloxane neers Magnesium gluconate Glutamic acid (L+)-) Monosodium L-glutamate, L Calcium di-L-glutamate, L Monopammonium L-glutamate, L Monopammonium L-glutamate, L Monopammonium L-glutamate, L	10000 mg/kg 5000 mg/kg 5000 mg/kg 2000 mg/kg 10000 mg/kg 10000 mg/kg 10000 mg/kg 5000 mg/kg 6000 mg/kg 6000 mg/kg
435 436 472e 473 474 475 477 481(i) 482(i) 491 492 493 494 495 900a Flavour Enhar 580 620 621 622 623 624 625 626	Polyoxyethylene (20) sorbitan tristearate Diacetyltartaric and fatty acid esters of glycerol Sucrose esters of fatty acids Sucroglycerides Polyglycerol esters of fatty acids Propylene glycol esters of fatty acids Sodium stearoyl lactylate Calcium stearoyl lactylate Sorbitan monostearate Sorbitan tristearate Sorbitan monolaurate Sorbitan monopalmitate Polydimethylsiloxane neers Magnesium gluconate Glutamic acid (L+)-) Monosodium L-glutamate, L- Calcium di-L-glutamate, di L-	10000 mg/kg 5000 mg/kg 5000 mg/kg 2000 mg/kg 10000 mg/kg 10000 mg/kg 10000 mg/kg 5000 mg/kg 6000 mg/kg

628	INS No.	Name of Additive	Maximum Level
Calcium 5'-guanylate-\$\frac{1}{9} GMP			
Incoming acid, 25- Since Incoming acid,			
Bisodum 5'-inosinate-5'- GMP			II.
GMP Galeium 5'-inbonacleotides-5- GMP			
Calcium 5'-ribonucleotides-5'- GMP			
Disodium Stribonucleotides GMP			
April			II.
Elyl mallo GMP			
Preservatives			
200			GWII
1000 mg/kg as sorbic acid			
Potassium sorbate			-
Calcium sorbate Sodium benzoate 210 Benzoice acid			1000 mg/kg as sorbic acid
			-
212			
213			_
Calcium benzoate Stabilizers and Thickeners Stabilizers			300 mg/kg as benzoic acid
Stabilizers and Thickeners			-
Stabilizers and Thickeners			500 mg/lsg
170(i)			Joo nig/kg
Salidiii			GMD
338			
Nonementium Orthophosphate Sodium dihvdrogen phosphate			GWIF
Disodium Orthophosphate Dyagon Dy			-
Trisodium Orthophosphate Ottophosphate O			_
Monopotassium Orthophosphate Potassium dihydrogen phosphate			_
Dipotassium hydrogen Orthophosphate 340(iii) Tripotassium Orthophosphate 341(ii) Monocalcium dihydrogen Orthophosphate 341(iii) Diealeium Calcium hydrogen Orthophosphate 342(ii) Monocalcium dihydrogen Orthophosphate 342(ii) Diammonium-hydrogen Orthophosphate 343(ii) Monomagnesium Orthophosphate 343(ii) Diammonium-hydrogen Orthophosphate 343(ii) Diamgnesium Orthophosphate 343(ii) Diamgnesium Orthophosphate 343(ii) Trimagnesium Orthophosphate 343(ii) Trimagnesium Orthophosphate 343(ii) Trimagnesium Orthophosphate 343(iii) Trimagnesium Orthophosphate 343(iii) Trimagnesium Orthophosphate 343(iii) Trisacdium diphosphate 343(iii) Tretasodium diphosphate 343(iii) Tetrasodium diphosphate 343(iii) Tetrasodium diphosphate 343(iii) Tetrasodium diphosphate 343(iii) Tetrasodium diphosphate 343(iii) Dentajotassium triphosphate 343(iii) Dentajotassium triphosphate 343(iii) Pentapotassium triphosphate 343(iii) Pentapotassium triphosphate 343(iii) Potassium polyphosphate 343(iii)			4
			4
Monocalcium dihvdrogen Orthophosphate			_
			4
341(iii)			4
342(ii) Diammonium-hydrogen Orthophosphate 343(i) Monomagnesium Orthophosphate 343(ii) DiMagnesium hydrogen Orthophosphate 343(iii) DiMagnesium Orthophosphate 450(i) Disodium diphosphate 450(ii) Trisodium diphosphate 450(iv) Tetrasodium diphosphate 450(v) Tetrasodium diphosphate 450(vi) Dicalcium diphosphate 450(vii) Calcium diphosphate 451(i) Pentasodium triphosphate 451(ii) Pentasodium triphosphate 452(ii) Potassium polyphosphate 452(ii) Potassium polyphosphate 452(iv) Calcium polyphosphate 452(iv) Calcium polyphosphate 452(v) Ammonium polyphosphate 452(v) Ammonium polyphosphate 452(v) Ammonium polyphosphate 452(v) Ammonium alginate GMP 400 Alginic acid GMP 401 Sodium alginate GMP 402 Potassium alginate GMP 403			
343(i)			
343(ii) DiMagnesium hydrogen Orthophosphate 1000 mg/kg, singly or in 343(iii) Trimagnesium Orthophosphate 450(ii) Disodium diphosphate 450(iii) Trisodium diphosphate 450(iii) Tetrasodium diphosphate 450(iii) Tetrasodium diphosphate 450(v) Dicalcium diphosphate 450(vi) Dicalcium diphosphate 450(vi) Calcium dihydrogen diphosphate 451(ii) Pentapotassium triphosphate 451(ii) Pentapotassium triphosphate 452(ii) Potassium polyphosphate 452(iii) Potassium polyphosphate 452(iii) Sodium calcium polyphosphate 452(v) Calcium polyphosphate 452(v) Ammonium polyphosphate 452(v) Ammonium polyphosphate 452(v) Ammonium alginate GMP 401 Sodium alginate GMP 402 Potassium alginate GMP 403 Ammonium alginate GMP 404 Calcium alginate GMP 405 Propylene glycol alginate GMP 406 Agar GMP 407 Carrageenan and its Na, K, NH4, Ca and Mg salts (including furcelleran) GMP 407a Processed eucheuma seaweed (PES) GMP GMP 412 Guar gum GMP GMP 412 Guar gum GMP Garageman gum GMP GMP GMP GMP GMP GMP GMP GMP Garageman gum GMP GMP GMP GMP GMP GMP GMP GMP GArageman gum GMP GMP GMP GMP GMP GMP GMP GMP GArageman gum GMP GMP GMP GMP GMP GMP GMP GMP GArageman gum GMP GMP GMP GMP GMP GMP GMP GMP GArageman gum GMP GMP			
1000 mg/kg, singly of in combination, as phosphorus			
ASO(ii) Disodium diphosphate			1000 mg/kg, singly or in
A50(i)			combination, as phosphorus
A50(iii) Tetrasodium diphosphate A50(v) Tetrapotassium diphosphate A50(vi) Dicalcium diphosphate A50(vii) Dicalcium diphosphate A50(vii) Calcium dihydrogen diphosphate A51(ii) Pentasodium triphosphate A51(ii) Pentasodium triphosphate A52(ii) Potassium polyphosphate A52(ii) Sodium polyphosphate A52(iii) Sodium calcium polyphosphate A52(iii) Sodium calcium polyphosphate A52(iv) Calcium polyphosphate A52(v) Ammonium polyphosphate A52(v) Ammonium polyphosphate A52(v) Ammonium polyphosphate A00 Alginic acid GMP A01 Sodium alginate GMP GMP A02 Potassium alginate GMP GMP A03 Ammonium alginate GMP A04 Calcium alginate GMP A05 Propylene glycol alginate GMP A06 Agar GMP A07 Carrageenan and its Na, K, NH4, Ca and Mg salts (including furcelleran) GMP A07a Processed cucheuma seaweed (PES) GMP A07a Processed cucheuma seaweed (PES) GMP A07a Garage gum GMP GMP A07a Garage gum GMP GMP A07a Garage gum GMP GMP A07a Garage gum GMP A07a Garage gum GMP A07a GMP A07a Garage gum GMP A07a Garage gum GMP A07a GMP A07a Garage gum GMP A07			
Tetrapotassium diphosphate		Trisodium diphosphate	
450(vi) Dicalcium diphosphate 450(vii) Calcium diphosphate 451(ii) Pentasodium triphosphate 451(ii) Pentapotassium triphosphate 452(ii) Sodium polyphosphate 452(ii) Sodium polyphosphate 452(iii) Potassium polyphosphate 452(iii) Sodium calcium polyphosphate 452(iv) Calcium polyphosphate 452(iv) Calcium polyphosphate 452(v) Ammonium polyphosphate 452(v) Ammonium polyphosphate 452(v) Ammonium polyphosphate 400 Alginic acid GMP 401 Sodium alginate GMP 402 Potassium alginate GMP 403 Ammonium alginate GMP 404 Calcium alginate GMP 405 Propylene glycol alginate GMP 405 Propylene glycol alginate GMP 406 Agar GMP 407 Carrageenan and its Na, K, NH4, Ca and Mg salts (including furcelleran) GMP 407a Processed eucheuma seaweed (PES) GMP 407 Garob bean gum GMP 412 Guar gum GMP GMP 412 Guar gum			
Solition Calcium dihydrogen diphosphate			
451(i) Pentasodium triphosphate 451(ii) Pentapotassium triphosphate 452(i) Sodium polyphosphate 452(ii) Potassium polyphosphate 452(iii) Sodium calcium polyphosphate 452(iv) Calcium polyphosphate 452(v) Ammonium polyphosphate 452(v) Ammonium polyphosphate 400 Alginic acid GMP 401 Sodium alginate GMP 402 Potassium alginate GMP 403 Ammonium alginate GMP 404 Calcium alginate GMP 405 Propylene glycol alginate GMP 406 Agar GMP 407 Carrageenan end its Na, K, NH ₄ , Ca and Mg salts (including timellations) GMP 407a Processed eucheuma seaweed (PES) GMP 410 Carob bean gum GMP 412 Guar gum			
451(ii) Pentapotassium triphosphate 452(i) Sodium polyphosphate 452(ii) Potassium polyphosphate 452(iii) Sodium calcium polyphosphate 452(iv) Calcium polyphosphate 452(v) Ammonium polyphosphate 542 Bone phosphate 400 Alginic acid GMP 401 Sodium alginate GMP 402 Potassium alginate GMP 403 Ammonium alginate GMP 404 Calcium alginate GMP 405 Propylene glycol alginate GMP 406 Agar GMP 407 Carrageenan and its Na, K, NH4, Ca and Mg salts (including furcelleran) GMP 407a Processed eucheuma seaweed (PES) GMP 410 Carob bean gum GMP 412 Guar gum GMP			
452(i) Sodium polyphosphate 452(ii) Potassium polyphosphate 452(iii) Sodium calcium polyphosphate 452(iv) Calcium polyphosphate 452(v) Ammonium polyphosphate 542 Bone phosphate 400 Alginic acid GMP 401 Sodium alginate GMP 402 Potassium alginate GMP 403 Ammonium alginate GMP 404 Calcium alginate GMP 405 Propylene glycol alginate GMP 406 Agar GMP 407 Carrageenan and its Na, K, NH4, Ca and Mg salts (including furcolleran) GMP 407a Processed eucheuma seaweed (PES) GMP 410 Carob bean gum GMP 412 Guar gum GMP			
Potassium polyphosphate Sodium calcium polyphosphate			_
Sodium calcium polyphosphate Sodium calcium polyphosphate		1 71 1	_
452(iv)Calcium polyphosphate452(v)Ammonium polyphosphate542Bone phosphate400Alginic acidGMP401Sodium alginateGMP402Potassium alginateGMP403Ammonium alginateGMP404Calcium alginateGMP405Propylene glycol alginateGMP406AgarGMP407Carrageenan and its Na, K, NH4, Ca and Mg salts (including furcelleran)GMP407aProcessed eucheuma seaweed (PES)GMP410Carob bean gumGMP412Guar gumGMP			_
452(v) Ammonium polyphosphate 542 Bone phosphate 400 Alginic acid GMP 401 Sodium alginate GMP 402 Potassium alginate GMP 403 Ammonium alginate GMP 404 Calcium alginate GMP 405 Propylene glycol alginate GMP 406 Agar GMP 407 Carrageenan and its Na, K, NH4, Ca and Mg salts (including furcelleran) GMP 407a Processed eucheuma seaweed (PES) GMP 410 Carob bean gum GMP 412 Guar gum GMP			
542 Bone phosphate 400 Alginic acid GMP 401 Sodium alginate GMP 402 Potassium alginate GMP 403 Ammonium alginate GMP 404 Calcium alginate GMP 405 Propylene glycol alginate GMP 406 Agar GMP 407 Carrageenan and its Na, K, NH4, Ca and Mg salts (including furcelleran) GMP 407a Processed eucheuma seaweed (PES) GMP 410 Carob bean gum GMP 412 Guar gum GMP			_
400 Alginic acid GMP 401 Sodium alginate GMP 402 Potassium alginate GMP 403 Ammonium alginate GMP 404 Calcium alginate GMP 405 Propylene glycol alginate GMP 406 Agar GMP 407 Carrageenan and its Na, K, NH4, Ca and Mg salts (including furcelleran) GMP 407a Processed eucheuma seaweed (PES) GMP 410 Carob bean gum GMP 412 Guar gum GMP		Ammonium polyphosphate	
401 Sodium alginate GMP 402 Potassium alginate GMP 403 Ammonium alginate GMP 404 Calcium alginate GMP 405 Propylene glycol alginate GMP 406 Agar GMP 407 Carrageenan and its Na, K, NH4, Ca and Mg salts (including furcelleran) GMP 407a Processed eucheuma seaweed (PES) GMP 410 Carob bean gum GMP 412 Guar gum GMP			
402 Potassium alginate GMP 403 Ammonium alginate GMP 404 Calcium alginate GMP 405 Propylene glycol alginate GMP 406 Agar GMP 407 Carrageenan and its Na, K, NH4, Ca and Mg salts (including furcelleran) GMP 407a Processed eucheuma seaweed (PES) GMP 410 Carob bean gum GMP 412 Guar gum GMP			
403 Ammonium alginate GMP 404 Calcium alginate GMP 405 Propylene glycol alginate GMP 406 Agar GMP 407 Carrageenan and its Na, K, NH4, Ca and Mg salts (including furcelleran) GMP 407a Processed eucheuma seaweed (PES) GMP 410 Carob bean gum GMP 412 Guar gum GMP			
404 Calcium alginate GMP 405 Propylene glycol alginate GMP 406 Agar GMP 407 Carrageenan and its Na, K, NH4, Ca and Mg salts (including furcelleran) GMP 407a Processed eucheuma seaweed (PES) GMP 410 Carob bean gum GMP 412 Guar gum GMP			II.
405 Propylene glycol alginate GMP 406 Agar GMP 407 Carrageenan and its Na, K, NH4, Ca and Mg salts (including furcelleran) GMP 407a Processed eucheuma seaweed (PES) GMP 410 Carob bean gum GMP 412 Guar gum GMP		Ammonium alginate	
406 Agar GMP 407 Carrageenan and its Na, K, NH ₄ , Ca and Mg salts (including furcelleran) 407a Processed eucheuma seaweed (PES) 410 Carob bean gum GMP 412 Guar gum GMP			
Carrageenan and its Na, K, NH ₄ , Ca and Mg salts (including furcelleran) GMP 407a Processed eucheuma seaweed (PES) GMP 410 Carob bean gum GMP 412 Guar gum GMP	405	Propylene glycol alginate	GMP
Carrageenan and its Na, K, NH ₄ , Ca and Mg salts (including furcelleran) GMP 407a Processed eucheuma seaweed (PES) GMP 410 Carob bean gum GMP 412 Guar gum GMP		Agar	GMP
407 furcelleran) GMP 407a Processed eucheuma seaweed (PES) GMP 410 Carob bean gum GMP 412 Guar gum GMP	407		
410 Carob bean gum GMP 412 Guar gum GMP	40/		GMP
410 Carob bean gum GMP 412 Guar gum GMP	407a		GMP
412 Guar gum GMP			
413 Tragacanth gum GMP	413	Tragacanth gum	GMP

INS No.	Name of Additive	Maximum Level
414	Gum arabic (Acacia gum)	GMP
415	Xanthan gum	GMP
416	Karaya gum	GMP
417	Tara gum	GMP
418	Gellan gum	GMP
425	Konjac flour	GMP
440	Pectins	GMP
459	beta- Cyclodextrin, <i>beta-</i>	5 mg/kg
460(i)	Microcrystalline cellulose (Cellulose gel)	GMP
460(ii)	Powdered cellulose	GMP
461	Methyl cellulose	GMP
463	Hydroxypropyl cellulose	GMP
464	Hydroxypropyl methyl cellulose	GMP
465	Methyl ethyl cellulose	GMP
466	Sodium carboxymethyl cellulose (cellulose gum)	GMP
467	Ethyl hydroxyethyl cellulose	GMP
468	Cross-linked sodium carboxymethyl cellulose (crossed-linked	GMP
100	cellulose gum)	Givii
469	Sodium carboxymethyl cellulose, enzymatically hydrolyzed (cellulose gum,enzymatically hydrolyzed)	GMP
470(i)	Salts of myristic, palmitic and stearic acids with ammonia, calcium, potassium and sodium	GMP
470(ii)	Salts of oleic acid with calcium, potassium and sodium (Ca, K, Na)	GMP
471	Mono- and di- glycerides of fatty acids	GMP
472a	Acetic and fatty acid esters of glycerol	GMP
472b	Lactic and fatty acid esters of glycerol	GMP
472c	Citric and fatty acid esters of glycerol	GMP
508	Potassium chloride	GMP
509	Calcium chloride	GMP
511	Magnesium chloride	GMP
1200	Polydextroses	GMP
1400	Dextrins, roasted starch	GMP
1401	Acid-treated starch	GMP
1402	Alkaline treated starch	GMP
1403	Bleached starch	GMP
1404	Oxidized starch	GMP
1405	Enzyme treateds Starches, enzyme treated	GMP
1410	Monostarch phosphate	GMP
1412	Distarch phosphate	GMP
1413	Phosphated distarch phosphate	GMP
1414	Acetylated distarch phosphate	GMP
1420	Starch acetate	GMP
1422	Acetylated distarch adipate	GMP
1440	Hydroxypropyl starch	GMP
1442	Hydroxypropyl distarch phosphate	GMP
1450	Starch sodium octenyl succinate	GMP
1451	Acetylated oxidized starch	GMP
Sweeteners ¹²		
420	Sorbitols and Sorbitol Syrup	GMP
421	Mannitol	GMP
950	Acesulfame potassium	350 mg/kg
951	Aspartame	1000 mg/kg
952	Cyclamates	250 mg/kg
953	Isomalt (Hydrogenated isomaltulose)	GMP
954	Saccharin <u>s</u>	100 mg/kg
955	Sucralose (Trichlorogalactosucrose)	400 mg/kg
956	Alitame	100 mg/kg
961	Neotame	100 mg/kg
962	Aspartame-acesulfame salt	350 mg/kg on an acesulfame potassium equivalent basis
964	Polyglycitol syrup	GMP
965	Maltitols (Including Maltitol Syrup)	GMP

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 $^{^{12}}$ The use of sweeteners is limited to milk-and milk derivative-based products energy reduced or with no added sugar.

INS No.	Name of Additive	Maximum Level
966	Lactitol	GMP
967	Xylitol	GMP
968	Erythritol	GMP

STANDARD FOR A BLEND OF EVAPORATED SKIMMED MILK AND VEGETABLE FAT (CODEX STAN 250-2006)

Stabilizers 331(i) 331(iii) 332(i) 332(ii) 333 508 509 Acidity Regul 170(i) 339(ii) 339(iii) 339(iii)	Calcium carbonate Mones Sodium dihydrogen Orthophosphate Disodium hydrogen Orthophosphate Trisodium Orthophosphate	Limited by GMP Limited by GMP
Stabilizers 331(i) 331(iii) 332(i) 332(ii) 333 508 509 Acidity Regul 170(i) 339(i) 339(ii) 339(iii)	Sodium dihydrogen citrate Trisodium citrate Potassium dihydrogen citrate Tripotassium citrate Calcium citrates Potassium chloride Calcium chloride Calcium chloride lators Calcium carbonate Monos Sodium dihydrogen Orthophosphate Disodium hydrogen Orthophosphate Trisodium Orthophosphate	Limited by GMP
331(i) 331(iii) 332(ii) 332(ii) 333 508 509 Acidity Regul 170(i) 339(i) 339(ii) 339(iii)	Trisodium citrate Potassium dihydrogen citrate Tripotassium citrate Calcium citrates Potassium chloride Calcium chloride Lators Calcium carbonate Monos Sodium dihydrogen Orthophosphate Disodium hydrogen Orthophosphate Trisodium Orthophosphate	Limited by GMP
331(iii) 332(i) 332(ii) 333 508 509 Acidity Regul 170(i) 339(i) 339(ii) 339(iii)	Trisodium citrate Potassium dihydrogen citrate Tripotassium citrate Calcium citrates Potassium chloride Calcium chloride Lators Calcium carbonate Monos Sodium dihydrogen Orthophosphate Disodium hydrogen Orthophosphate Trisodium Orthophosphate	Limited by GMP
332(i) 332(ii) 333 508 509 Acidity Regul 170(i) 339(i) 339(ii) 339(iii)	Potassium dihydrogen citrate Tripotassium citrate Calcium citrates Potassium chloride Calcium chloride Calcium chloride lators Calcium carbonate Monos Sodium dihydrogen Orthophosphate Disodium hydrogen Orthophosphate Trisodium Orthophosphate	Limited by GMP
332(ii) 333 508 509 Acidity Regul 170(i) 339(i) 339(ii) 339(iii)	Tripotassium citrate Calcium citrates Potassium chloride Calcium chloride lators Calcium carbonate Monos Sodium dihydrogen Orthophosphate Disodium hydrogen Orthophosphate Trisodium Orthophosphate	Limited by GMP Limited by GMP Limited by GMP Limited by GMP
332(ii) 333 508 509 Acidity Regul 170(i) 339(i) 339(ii) 339(iii)	Tripotassium citrate Calcium citrates Potassium chloride Calcium chloride lators Calcium carbonate Monos Sodium dihydrogen Orthophosphate Disodium hydrogen Orthophosphate Trisodium Orthophosphate	Limited by GMP Limited by GMP Limited by GMP Limited by GMP
333 508 509 Acidity Regul 170(i) 339(i) 339(ii) 339(iii)	Calcium citrates Potassium chloride Calcium chloride lators Calcium carbonate Monos Sodium dihydrogen Orthophosphate Disodium hydrogen Orthophosphate Trisodium Orthophosphate	Limited by GMP Limited by GMP
508 509 Acidity Regul 170(i) 339(i) 339(ii) 339(iii)	Calcium chloride lators Calcium carbonate Monos Sodium dihydrogen Orthophosphate Disodium hydrogen Orthophosphate Trisodium Orthophosphate	Limited by GMP
509 Acidity Regul 170(i) 339(i) 339(ii) 339(iii)	Calcium chloride lators Calcium carbonate Monos Sodium dihydrogen Orthophosphate Disodium hydrogen Orthophosphate Trisodium Orthophosphate	Limited by GMP
Acidity Regul 170(i) 339(i) 339(ii) 339(iii)	lators Calcium carbonate Monos Sodium dihydrogen Orthophosphate Disodium hydrogen Orthophosphate Trisodium Orthophosphate	
170(i) 339(i) 339(ii) 339(iii)	Calcium carbonate Mones Sodium dihydrogen Orthophosphate Disodium hydrogen Orthophosphate Trisodium Orthophosphate	Limited by GMP
339(i) 339(ii) 339(iii)	Monos Sodium dihydrogen Orthophosphate Disodium hydrogen Orthophosphate Trisodium Orthophosphate	-
339(ii) 339(iii)	Disodium <u>hydrogen</u> Orthophosphate Trisodium Orthophosphate	┥
339(iii)	Trisodium Orthophosphate	
		†
	MonopPotassium dihydrogen Orthophosphate	†
	Dipotassium <u>hydrogen</u> Orthophosphate	†
	Tripotassium Orthophosphate	†
	Monocalcium <u>dihydrogen</u> Orthophosphate	†
	Die Calcium hydrogen Orthophosphate	†
	Tricalcium Orthophosphate	†
	Disodium diphosphate	†
	Trisodium diphosphate	4400 mg/kg, singly or in combination
	Tetrasodium diphosphate	as phosphorous
	Tetrapotassium diphosphate	1
	Dicalcium diphosphate	†
	Calcium dihydrogen diphosphate	†
	Pentasodium triphosphate	†
	Pentapotassium triphosphate	-
	Sodium polyphosphate	1
	Potassium polyphosphate	1
	Sodium calcium polyphosphate	1
	Calcium polyphosphates	1
	Ammonium polyphosphates	1
	Sodium carbonate	Limited by GMP
	Sodium hydrogen carbonate	Limited by GMP
	Sodium sesquicarbonate	Limited by GMP
· /	Potassium carbonates	Limited by GMP
()	Potassium hydrogen carbonate	Limited by GMP
Thickeners		
407	Carrageenan and its Na, K, NH ₄ , Ca and Mg salts	Limited by GMP
	(including furcelleran) Processed Eucheuma Seaweed (PES)	Limited by GMP

$STANDARD\ FOR\ A\ BLEND\ OF\ SKIMMED\ MILK\ AND\ VEGETABLE\ FAT\ IN\ POWDERED\ FORM\ (CODEX\ STAN\ 251-2006)$

INS No.	Name of Additive	Maximum Level
Stabilizers		
331(i)	Sodium dihydrogen citrate	Limited by GMP
331(iii)	Trisodium citrate	Limited by GMP
332(i)	Potassium dihydrogen citrate	Limited by GMP
332(ii)	Tripotassium citrate	Limited by GMP
508	Potassium chloride	Limited by GMP
509	Calcium chloride	Limited by GMP
Acidity Reg	ulators	
339(i)	MonosSodium dihydrogen Orthophosphate	4400 mg/kg, singly or in combination,
339(ii)	Disodium <u>hydrogen</u> Orthophosphate	

INS No.	Name of Additive	Maximum Level
339(iii)	Trisodium Orthophosphate	as phosphorous
340(i)	MonopPotassium dihydrogen Orthophosphate	• •
340(ii)	Dipotassium <u>hydrogen</u> Orthophosphate	
340(iii)	Tripotassium Orthophosphate	
341(i)	Monocalcium dihydrogen Orthophosphate	
341(ii)	DieCalcium hydrogen Orthophosphate	
450(i)	Disodium diphosphate	
450(ii)	Trisodium diphosphate	
450(iii)	Tetrasodium diphosphate	
450(v)	Tetrapotassium diphosphate	
450(vi)	Dicalcium diphosphate	
450(vii)	Calcium dihydrogen diphosphate	
451(i)	Pentasodium triphosphate	
451(ii)	Pentapotassium triphosphate	
452(i)	Sodium polyphosphate	
452(ii)	Potassium polyphosphate	
452(iii)	Sodium calcium polyphosphate	
452(iv)	Calcium polyphosphates	
452(v)	Ammonium polyphosphates	
500(i)	Sodium carbonate	Limited by GMP
500(ii)	Sodium hydrogen carbonate	Limited by GMP
500(iii)	Sodium sesquicarbonate	Limited by GMP
501(i)	Potassium carbonate s	Limited by GMP
501(ii)	Potassium hydrogen carbonate	Limited by GMP
Emulsifiers	<u> </u>	-
322	Lecithins	Limited by GMP
471	Mono- and d- glycerides of fatty acids	Limited by GMP
Anticaking	Agents	
170(i)	Calcium carbonate	Limited by GMP
504(i)	Magnesium carbonate	Limited by GMP
530	Magnesium oxide	Limited by GMP
551	Silicon dioxide, amorphous	Limited by GMP
552	Calcium silicate	Limited by GMP
553(i)	Magnesium silicate (synthetic)	Limited by GMP
553(iii)	Talc	Limited by GMP
554	Sodium aluminosilicate	Limited by GMP
556	Calcium aluminium silicate	Limited by GMP
559	Aluminium silicate	Limited by GMP
341(iii)	Tricalcium Orthophosphate	4400 mg/kg, singly or in combination as
343(iii)	Trimagnesium Ortho phosphate	phosphorous
Antioxidant	ts	
300	Ascorbic acid (L-)	500 // 1: :1
301	Sodium ascorbate	500 mg/kg as ascorbic acid
304	Ascorbyl palmitate	80 mg/kg, singly or in combination,
305	Ascorbyl stearate	as ascorbyl stearate
320	Butylated hydroxyanisole (BHA)	100 mg/kg gingly or in combination
321	Butylated hydroxytoluene (BHT)	100 mg/kg singly or in combination. Expressed on fat or oil basis
	[D111]	Expressed oil lat of oil dasis

Tertiary butylhydroquinone (TBHQ)

STANDARD FOR A BLEND OF SWEETENED CONDENSED SKIMMED MILK AND VEGETABLE FAT (CODEX STAN 252-2006)

INS No.	Name of Additive	Maximum Level
Emulsifiers		
322	Lecithins	Limited by GMP
Stabilizers		
331(i)	Sodium dihydrogen citrate	Limited by GMP
331(iii)	Trisodium citrate	Limited by GMP
332(i)	Potassium dihydrogen citrate	Limited by GMP
332(ii)	Tripotassium citrate	Limited by GMP
333	Calcium citrates	Limited by GMP
508	Potassium chloride	Limited by GMP
509	Calcium chloride	Limited by GMP

INS No.	Name of Additive	Maximum Level
Acidity Re	gulators	
170(i)	Calcium Carbonate	Limited by GMP
339(i)	Monos Sodium dihydrogen Orthophosphate	
339(ii)	Disodium <u>hydrogen</u> Orthophosphate	
339(iii)	Trisodium Ortho phosphate	
340(i)	MonopPotassium dihydrogen Orthophosphate	
340(ii)	Dipotassium hydrogen Orthophosphate	
340(iii)	Tripotassium Orthophosphate	
341(i)	Monocalcium dihydrogen Orthophosphate	
341(ii)	Die Calcium hydrogen Orthophosphate	
341(iii)	Tricalcium Orthophosphate	
450(i)	Disodium diphosphate	
450(ii)	Trisodium diphosphate	4400 mg/kg, singly or in combination
450(iii)	Tetrasodium diphosphate	as phosphorous
450(v)	Tetrapotassium diphosphate	
450(vi)	Dicalcium diphosphate	
450(vii)	Calcium dihydrogen diphosphate	
451(i)	Pentasodium triphosphate	
451(ii)	Pentapotassium triphosphate	
452(i)	Sodium polyphosphate	
452(ii)	Potassium polyphosphate	
452(iii)	Sodium calcium polyphosphate	
452(iv)	Calcium polyphosphates	
452(v)	Ammonium polyphosphates	
500(i)	Sodium carbonate	Limited by GMP
500(ii)	Sodium hydrogen carbonate	Limited by GMP
500(iii)	Sodium sesquicarbonate	Limited by GMP
501(i)	Potassium carbonates	Limited by GMP
501(ii)	Potassium hydrogen carbonate	Limited by GMP
Thickener	S	· · · · · · · · · · · · · · · · · · ·
407	Carrageenan and its Na, K, NH ₄ , Ca and Mg salts	Limited by CMD
40/	(including furcelleran)	Limited by GMP
407a	Processed eucheuma seaweed (PES)	Limited by GMP

STANDARD FOR DAIRY FAT SPREADS (CODEX STAN 253-2006)

INS No.	Name of Additive	Maximum Level
Colours		
100(i)	Curcumin	5 mg/kg
160a(i)	beta eCarotenes, beta- (synthetic)	
160a(ii i)	beta eCarotenes, beta- (Blakeslea triaspora trispora)	
160e	beta apo-Carotenal, beta-apo-8'-	35 mg/kg, singly or in combination
160f	β apo 8'-Carotenoic acid, methyl or ethyl ester, beta-apo- 8'-	
160b(i)	Annatto extracts, bixin based	20 mg/kg
Emulsifier	'S	
432	Polyoxyethylene (20) sorbitan monolaurate	
433	Polyoxyethylene (20) sorbitan monooleate	10000 mg/kg, singly or in combination
434	Polyoxyethylene (20) sorbitan monopalmitate	(Dairy fat spreads for baking purposes only)
435	Polyoxyethylene (20) sorbitan monostearate	(" J " - F " - T
436	Polyoxyethylene (20) sorbitan tristearate	
471	Mono_ and di_ glycerides of fatty acids	Limited by GMP
472a	Acetic and fatty acid esters of glycerol	Limited by GMP
472b	Lactic and fatty acid esters of glycerol	Limited by GMP
472c	Citric and fatty acid esters of glycerol	Limited by GMP
472e	Diacetyltartaric and fatty acid esters of glycerol	10000 mg/kg
473	Sucrose esters of fatty acids	10000 mg/kg, dairy fat spreads for baking purposes only.
474	Sucroglycerides	10000 mg/kg, dairy fat spreads for baking purposes only.
475	Polyglycerol esters of fatty acids	5000 mg/kg
476	Polyglycerol esters of interesterified ricinoleic acid	4000 mg/kg
481(i)	Sodium stearoyl lactylate	
482(i)	Calcium stearoy lactylate	10000 mg/kg, singly or in combination
491	Sorbitan monostearate	

INS No.	Name of Additive	Maximum Level
492	Sorbitan tristearate	10000 mg/kg, singly or in combination
493	Sorbitan monolaurate	mg mg, smgrj or m contonium
494	Sorbitan monooleate	
495	Sorbitan monopalmitate	
Preservati		
200	Sorbic acid	2000 mg/kg, singly or in combination (as sorbic
201	Sodium sorbate	acid) for fat contents < 59% and 1000 mg/kg
202	Potassium sorbate	singly or in combination (as sorbic acid) for fat
203	Calcium sorbate	contents $\geq 59\%$
	/thickeners	contents = 5770
340(i)	MonopPotassium dihydrogen Orthophosphate	
340(ii)	Dipotassium hydrogen Orthophosphate	
340(iii)	Tripotassium Orthophosphate Tripotassium Orthophosphate	000 // 1 1 1 1 //
341(i)	Monocalcium dihydrogen Orthophosphate	880 mg/kg, singly or in combination,
341(ii)	Die Calcium hydrogen Orthophosphate	as phosphorous
341(iii)	Tricalcium Orthophosphate Tricalcium Orthophosphate	
450(i)	Disodium diposphate	
400	Alginic acid	Limited by GMP
400	Sodium alginate	Limited by GMP
	Potassium alginate	Limited by GMP Limited by GMP
402	Ammonium alginate	,
403	č	Limited by GMP Limited by GMP
-	Calcium alginate	
406	Agar	Limited by GMP
405	Propylene glicol alginate Carrageenan and its Na, K, NH ₄ Ca and Mg salts	3000 mg/kg
407	(including furcelleran)	Limited by GMP
407a	Processed euchema seaweed (PES)	Limited by GMP
410	Carob bean gum	Limited by GMP
412	Guar gum	Limited by GMP
413	Tragacanth gum	Limited by GMP
413	Gum arabic (Acacia gum)	Limited by GMP
414	Xanthan gum	Limited by GMP
413	Gellan gum	Limited by GMP
418	Glycerol	Limited by GMP Limited by GMP
	Pectins	Limited by GMP Limited by GMP
440	2 0 0 0 0 0 0	
460(i) 460(ii)	Microcrystalline cellulose (Cellulose gel) Powdered cellulose	Limited by GMP Limited by GMP
460(11)	Methyl cellulose	Limited by GMP Limited by GMP
463		
464	Hydroxypropyl cellulose	Limited by GMP Limited by GMP
	Hydroxypropyl methyl cellulose	
465	Methyl ethyl cellulose	Limited by GMP
466	Sodium carboxymethyl cellulose (cellulose gum)	Limited by GMP
500(i)	Sodium carbonate	Limited by GMP
500(ii)	Sodium hydrogen carbonate	Limited by GMP
500(iii)	Sodium sesquicarbonate	Limited by GMP
1400	Dextrin, roasted starch white and yellow	Limited by GMP
1401	Acid-treated starch	Limited by GMP
1402	Alkaline-treated starch	Limited by GMP
1403	Bleached starch	Limited by GMP
1404	Oxidized starch	Limited by GMP
1405	Starches, enzyme treated	Limited by GMP
1410	Monostarch phosphate	Limited by GMP
1412	Distarch phosphate esterified with Sodium trimetaphospahte; esterified with phosphorous exychloride	Limited by GMP
1413	Phosphated distarch phosphate	Limited by GMP
1414	Acetylated distarch phosphate	Limited by GMP
1420	Starch acetate esterified with acetic anhydride	Limited by GMP
1422	Acetylated distarch adipate	Limited by GMP
1440	Hydroxypropyl starch	Limited by GMP
1442	Hydroxypropyl distarch phosphate	Limited by GMP
Acidity reg		Zimiled of Olini
325	Sodium lactate	Limited by GMP
326	Potassium lactate	Limited by GMP
327	Calcium lactate	Limited by GMP
341	Curerani iucuite	Emilion by OMI

INS No.	Name of Additive	Maximum Level
329	Magnesium lactate (DL-)	Limited by GMP
331(i)	Sodium dihydrogen citrate	Limited by GMP
331(ii)	Disodium monohydrogen citrate	Limited by GMP
334	Tartaric acid (L(+)-)	
335 (i)	Monosodium tartrate	
335 (ii)	Dis Sodium L (+)-tartrate	5000 mg/kg, singly or in combination
336 (i)	Monopotassium tartrate	as tartaric acid
336 (ii)	Dipotassium tartrate	
337	Potassium sodium <u>L(+)-</u> tartrate	
339 (i)	MonosSodium dihydrogen Orthophosphate	
339 (ii)	Disodium hydrogen Orthophosphate	880 mg/kg,
339 (iii)	Trisodium Orthophosphate	singly or in combination as phosphorous
338	OrthopPhosphoric acid	
524	Sodium hydroxide	Limited by GMP
526	Calcium hydroxide	Limited by GMP
Antioxida	nnts	
304	Ascorbyl palpitate	500 mg/kg, as ascorbyl stearate
305	Ascorbyl stearate	500 mg/kg, as ascorbyr stearate
<u>307</u> a	Tocopherol <u>s</u> , <i>d-alpha</i>	500 //
306 <u>7b</u>	Mixed tTocopherols concentrate, mixed	500 mg/kg
310	Propyl gallate	200 mg/kg, singly or in combination: Butylated Hydroxyanisole (BHA, INS 320), Butylated Hydroxytoluene (BHT, INS 321), and Propyl Gallate (INS 310) as a combined maximum level of 200 mg/kg on a fat or oil basis. May be used only in dairy fat spreads intended for cooking purposes.
320	Butylated hydroxyanisole	200 mg/kg, singly or in combination: Butylated Hydroxyanisole (BHA, INS 320),Butylated Hydroxytoluene (BHT, INS 321), and Propyl Gallate (INS 310) as a combined maximum level of 200 mg/kg on a fat or oil basis. May be used only in dairy fat spreads intended for cooking purposes.
321	Butylated hydroxytoluene	75 mg/kg, singly or in combination: Butylated Hydroxyanisole (BHA, INS 320), Butylated Hydroxytoluene (BHT, INS 321), and Propyl Gallate (INS 310) as a combined maximum level of 200 mg/kg on a fat or oil basis. May be used only in dairy fat spreads intended for cooking purposes.
Anti-foan	ning agents	
900a	Polydimethylsiloxane	10 mg/kg in dairy fat spreads for frying purposes, only.
Flavour e		· · · · ·
627	Disodium 5'-guanylate	Limited by GMP
628	Dipotassium 5'-guanylate	Limited by GMP

STANDARD FOR MOZZARELLA (CODEX STAN 262-2007)

INS No.	Name of Additive	Maximum Level
Preservatives		
200	Sorbic acid	
201	Sodium sorbate	1000 mg/kg
202	Potassium sorbate	singly or in combination as sorbic acid
203	Calcium sorbate	
234	Nisin	12.5 mg/kg
235	Pimaricin (natamycin) Natamycin (Pimaricin)	Not exceeding 2 mg/dm ² and not present in a depth of 5 mm
280	Propionic acid	
281	Sodium propionate	Limited by GMP
282	Calcium propionate	
283	Potassium propionate	
Acidity R	egulators	
170(i)	Calcium carbonate	Limited by GMP
<u>260</u>	Acetic acid (glacial)	<u>Limited by GMP</u>
261(i)	Potassium acetate	Limited by GMP
261(ii)	Potassium diacetate	Limited by GMP

INS No.	Name of Additive	Maximum Level
262(i)	Sodium acetate	Limited by GMP
263	Calcium acetate	Limited by GMP
270	Lactic acid (L-, D-, and DL-)	Limited by GMP
296	Malic acid (DL-)	Limited by GMP
325	Sodium lactate	Limited by GMP
326	Potassium lactate	Limited by GMP
327	Calcium lactate	Limited by GMP
<u>330</u>	Citric acid	Limited by GMP
<u>338</u>	Orthop-Phosphoric acid	880 mg/kg as phosphorus
350(i)	Sodium hydrogen <u>DL</u> -malate	Limited by GMP
350(ii)	Sodium DL-malate	Limited by GMP
351(i)	Potassium hydrogen malate	Limited by GMP
351(ii)	Potassium malate	Limited by GMP
352(ii)	Calcium malate (D, L-)	Limited by GMP
500(i)	Sodium carbonate	Limited by GMP
500(ii)	Sodium hydrogen carbonate Sodium sesquicarbonate	Limited by GMP Limited by GMP
500(iii) 501(i)	Potassium carbonate	Limited by GMP Limited by GMP
501(ii)	Potassium carbonate Potassium hydrogen carbonate	Limited by GMP Limited by GMP
504(i)	Magnesium carbonate	Limited by GMP
504(ii)	Magnesium hydrogen carbonate	Limited by GMP
507	Hydrochloric acid	Limited by GMP
575	Glucono delta-lactone	Limited by GMP
577	Potassium gluconate	Limited by GMP
578	Calcium gluconate	Limited by GMP
Acids		
260	Acetic acid (glacial)	Limited by GMP
270	Lactic acid (L-, D-, and DL-)	Limited by GMP
296	Malic acid (DL-)	Limited by GMP
330	Citric acid	Limited by GMP
338	OrthopPhosphoric acid	880 mg/kg as phosphorus
507	Hydrochloric acid	Limited by GMP
Stabilizers 331(i)	Sodium dihydrogen citrate	Limited by GMP
331(i) 332(i)	Potassium dihydrogen citrate	Limited by GMP
333	Calcium citrates	Limited by GMP
339(i)	Monos Sodium dihydrogen Orthophosphate	Elimica by GMI
339(ii)	Disodium <u>hydrogen</u> Orthophosphate	
339(iii)	Trisodium Orthophosphate	
340(i)	MonopPotassium dihydrogen Orthophosphate	
340(ii)	Dipotassium <u>hydrogen</u> Orthophosphate	
340(iii)	Tripotassium Ortho phosphate	
341(i)	Monocalcium dihydrogen Orthophosphate	
341(ii)	Die Calcium hydrogen Orthophosphate	
341(iii)	Tricalcium Orthophosphate	
342(i)	Monoa Ammonium dihydrogen orthophosphate	_
342(ii)	Diammonium hydrogen orthodoxy arthur barbara	4400 mg/kg, singly or in combination,
343(ii)	Dim Magnesium hydrogen erthephosphate	expressed as phosphorus
343(iii) 450(i)	Trimagnesium ortho phosphate Disodium diphosphate	-
450(iii)	Tetrasodium diphosphate	-
450(III) 450(v)	Tetrapotassium diphosphate	┥
450(vi)	Dicalcium diphosphate	†
451(i)	Pentasodium triphosphate	1
451(ii)	Pentapotassium triphosphate	7
452(i)	Sodium polyphosphate	
452(ii)	Potassium polyphosphate	
	Calcium polyphosphate	
452(iv)	Ammonium polyphosphate	
452(iv) 452(v)		
	Agar	Limited by GMP
452(v) 406	Agar Carrageenan and its Na, K, NH ₄ , Ca and Mg salts	·
452(v) 406 407	Agar Carrageenan and its Na, K, NH ₄ , Ca and Mg salts (includes furcelleran)	Limited by GMP
452(v) 406 407 407a	Agar Carrageenan and its Na, K, NH ₄ , Ca and Mg salts (includes furcelleran) Processed Euchema seaweed (PES)	Limited by GMP Limited by GMP
452(v) 406 407	Agar Carrageenan and its Na, K, NH ₄ , Ca and Mg salts (includes furcelleran)	Limited by GMP

INS No.	Name of Additive	Maximum Level
413	Tragacanth gum	Limited by GMP
415	Xanthan gum	Limited by GMP
416	Karaya gum	Limited by GMP
417	Tara gum	Limited by GMP
440	Pectins	Limited by GMP
466	Sodium carboxymethyl cellulose (cellulose gum)	Limited by GMP
Colours		
140	Chlorophyll <u>s</u>	Limited by GMP
141(i)	Chlorophyll copper complexes	5 mg/kg
141(ii)	Chlorophyllin copper complex, sodium and potassium	singly or in combination
141(11)	salts	3,
171	Titanium dioxide	Limited by GMP
Anticakin	ng Agents	
460(i)	Microcrystalline cellulose (Cellulose gel)	Limited by GMP
460(ii)	Powdered cellulose	Limited by GMP
551	Silicon dioxide, amorphous	
552	Calcium silicate	
553(i)	Magnesium silicate (synthetic)	10000 mg/kg
554	Sodium aluminosilicate	singly or in combination as silicon dioxide
556	Calcium aluminium silicate	
559	Aluminium silicate	

STANDARD FOR CHEDDAR (CODEX STAN 263-1966)

INS No.	Name of Additive	Maximum Level
Colours		
101(i)	Riboflavin, synthetic	300 mg/kg
140	Chlorophylls	Limited by GMP
160a(i)	beta-Carotenes beta- (synthetic)	
160a(iii)	beta- Carotene <u>s</u> beta- (Blakeslea triaspora trispora)	35 mg/kg
160e	beta-apo-8'-Carotenal, beta-apo-8'-	Singly or in combination
160f	beta apo 8'-Carotenoic acid, methyl or ethyl ester, beta-apo-8'-	
160a(ii)	beta-Carotenes, beta-(vegetable)	600 mg/kg
160b(ii)	Annatto extracts, norbixin-based	25 mg/kg
Preservati	ves	
1105	Lysozyme	Limited by GMP
200	Sorbic acid	
201	Sodium sorbate	1000 mg/kg based on sorbic acid.
202	Potassium sorbate	Surface Treatment only *.
203	Calcium sorbate	
234	Nisin	12.5 mg/kg
235	Pimaricin (natamycin) Natamycin (Pimaricin)	2 mg/dm ² Not present at a depth of 5 mm. Surface Treatment only *
251	Sodium nitrate	37 35 mg/kg, Singly or in combination
252	Potassium nitrate	(expressed as nitrate ion)
280	Propionic acid	3000 mg/kg
281	Sodium propionate	Surface Treatment only *
28 <u>3</u> 2	Potassium Caleium propionate	
Acidity Re		
170(i)	Calcium carbonate	Limited by GMP
504 (i)	Magnesium carbonate	Limited by GMP
575	Glucono delta-lactone	Limited by GMP
Anticaking		
460(i)	Microcrystalline cellulose (Cellulose gel)	Limited by GMP
460(ii)	Powdered cellulose	Limited by GMP
551	Silicon dioxide, amorphous	
552	Calcium silicate	10000 mg/kg
553(i)	Magnesium silicate (synthetic)	Singly or in combination
553(iii)	Talc	•
554	Sodium aluminosilicate	Silicates calculated as silicon dioxide
556	Calcium aluminium silicate	
559	Aluminium silicate	

^(*) For the definition of cheese surface and rind see Appendix to the *General Standard for Cheese* (CODEX STAN 283-1978)

STANDARD FOR DANBO (CODEX STAN 264-1966)

INS No.	Name of Additive	Maximum Level
Colours	•	
101(i)	Riboflavin, synthetic	300 mg/kg
140	Chlorophyll <u>s</u>	Limited by GMP
160a(i)	beta-Carotenes, beta- (synthetic)	
160a(iii)	beta-Carotenes, beta- (Blakeslea triaspora trispora)	35 mg/kg
160e	beta apo 8' Carotenal, beta-apo-8'-	Singly or in combination
160f	beta apo 8° Carotenoic acid, methyl or ethyl ester beta- apo-8°-	2
160a(ii)	<i>beta-</i> Carotenes, <i>beta-</i> (vegetable)	600 mg/kg
160b(ii)	Annatto extracts, norbixin-based	25 mg/kg
Preservat	ives	
1105	Lysozyme	Limited by GMP
200	Sorbic acid	
201	Sodium sorbate	1000 mg/kg based on sorbic acid.
202	Potassium sorbate	Surface Treatment only *.
203	Calcium sorbate	
234	Nisin	12.5 mg/kg
235	Pimaricin (natamycin) Natamycin (Pimaricin)	2 mg/dm ² Not present at a depth of 5 mm. Surface Treatment only *
251	Sodium nitrate	37 35 mg/kg, Singly or in combination
252	Potassium nitrate	(expressed as nitrate ion)
280	Propionic acid	3000 mg/kg
281	Sodium propionate	Surface Treatment only *
28 <u>3</u> 2	Potassium propionate	
Acidity R	egulators	
170(i)	Calcium carbonate	Limited by GMP
504 (i)	Magnesium carbonate	Limited by GMP
575	Glucono delta-lactone	Limited by GMP
Anticakin		
460(i)	Microcrystalline cellulose (Cellulose gel)	Limited by GMP
460(ii)	Powdered cellulose	Limited by GMP
551	Silicon dioxide, amorphous	
552	Calcium silicate	
553(i)	Magnesium silicate (synthetic)	10000 mg/kg
553(iii)	Talc	singly or in combination
554	Sodium aluminosilicate	Silicates calculated as silicon dioxide
556	Calcium aluminium silicate	
559	Aluminium silicate	
		1.0 1 1.0 Cl (CODEN CEAN AND 1070)

^(*) For the definition of cheese surface and rind see Appendix to the *General Standard for Cheese* (CODEX STAN 283-1978)

STANDARD FOR EDAM (CODEX STAN 265-1966)

INS No.	Name of Additive	Maximum Level
Colours		
160a(i)	beta-Carotenes, beta- (synthetic)	
160a(iii)	beta-Carotenes, beta- (Blakeslea triaspora trispora)	35 mg/kg
160e	beta apo 8'-Carotenal beta-apo-8'-,	Singly or in combination
160f	beta apo 8'-Carotenoic acid, methyl or ethyl ester, beta- apo-8'-	
160a(ii)	beta-Carotenes, beta-(vegetable)	600 mg/kg
160b(ii)	Annatto extracts, norbixin-based	25 mg/kg
Preservati	ives	
1105	Lysozyme	Limited by GMP
200	Sorbic acid	
201	Sodium sorbate	1000 mg/kg based on sorbic acid.
202	Potassium sorbate	Surface Treatment only *.
203	Calcium sorbate	
234	Nisin	12.5 mg/kg
235	Pimaricin (natamycin) Natamycin (Pimaricin)	2 mg/dm ² Not present at a depth of 5 mm. Surface Treatment only *
251	Sodium nitrate	35 mg/kg, Singly or in combination
252	Potassium nitrate	(expressed as nitrate ion)
280	Propionic acid	3000 mg/kg
281	Sodium propionate	

INS No.	Name of Additive	Maximum Level
28 <u>3</u> 2	Potassium propionate	Surface Treatment only *
Acidity Ro	egulators	<u>.</u>
170(i)	Calcium carbonate	Limited by GMP
504 (i)	Magnesium carbonate	Limited by GMP
575	Glucono delta-lactone	Limited by GMP
Anticakin	g Agents	
460(i)	Microcrystalline cellulose (Cellulose gel)	Limited by GMP
460(ii)	Powdered cellulose	Limited by GMP
551	Silicon dioxide, amorphous	
552	Calcium silicate	
553(i)	Magnesium silicate (synthetic)	10000 mg/kg
553(iii)	Talc	singly or in combination
554	Sodium aluminosilicate	Silicates calculated as silicon dioxide
556	Calcium aluminium silicate	
559	Aluminium silicate	

^(*) For the definition of cheese surface and rind see Appendix to the *General Standard for Cheese* (CODEX STAN 283-1978)

STANDARD FOR GOUDA (CODEX STAN 266-1966)

INS No.	Name of Additive	Maximum Level
Colours	· · · · · · · · · · · · · · · · · · ·	
160a(i)	beta-Carotenes, beta- (synthetic)	
160a(iii)	beta-Carotenes, beta- (Blakeslea triaspora trispora)	35 mg/kg
160e	beta-apo-8'-Carotenal, beta-apo-8'-	Singly or in combination
160f	beta-apo-8'-Carotenoic acid, methyl or ethyl ester, beta-apo-8'-	2
160a(ii)	beta-Carotenes, beta- (vegetable)	600 mg/kg
160b(ii)	Annatto extracts, norbixin-based	25 mg/kg
Preservati	ves	
1105	Lysozyme	Limited by GMP
200	Sorbic acid	1000 # 1 1 1 1 1
201	Sodium sorbate	1000 mg/kg based on sorbic acid.
202	Potassium sorbate	Surface Treatment only *.
203	Calcium sorbate	
234	Nisin	12.5 mg/kg
235	Pimariein (natamyein) Natamycin (Pimaricin)	2 mg/dm ² Not present at a depth of 5 mm. Surface Treatment only *
251	Sodium nitrate	35 mg/kg, Singly or in combination
252	Potassium nitrate	(expressed as nitrate ion)
280	Propionic acid	3000 mg/kg
281	Sodium propionate	Surface Treatment only *
28 <u>3</u> 2	Potassium propionate	,
Acidity Ro	egulators	
170(i)	Calcium carbonate	Limited by GMP
504 (i)	Magnesium carbonate	Limited by GMP
575	Glucono delta-lactone	Limited by GMP
Anticakin		
460(i)	Microcrystalline cellulose (Cellulose gel)	Limited by GMP
460(ii)	Powdered cellulose	Limited by GMP
551	Silicon dioxide, amorphous	
552	Calcium silicate	
553(i)	Magnesium silicate (synthetic)	10000 mg/kg
553(iii)	Talc	singly or in combination
554	Sodium aluminosilicate	Silicates calculated as silicon dioxide
556	Calcium aluminium silicate	
559	Aluminium silicate	
-		

^(*) For the definition of cheese surface and rind see Appendix to the *General Standard for Cheese* (CODEX STAN 283-1978)

STANDARD FOR HAVARTI (CODEX STAN 267-1966)

INS No.	Name of Additive	Maximum Level
Colours		
160a(i)	beta-Carotenes, beta- (synthetic)	35 mg/kg
160a(iii)	beta-Carotenes, beta- (Blakeslea triaspora trispora)	Singly or in combination
160e	beta ape 8' Carotenal, beta-apo-8'-	

160f	beta apo 8'-Carotenoic acid, methyl or ethyl ester, beta-apo-8'-	
160a(ii)	beta-Carotenes, beta- (vegetable)	600 mg/kg
160b(ii)	Annatto extracts, norbixin-based	25 mg/kg
Preservati	ves	
1105	Lysozyme	Limited by GMP
200	Sorbic acid	
201	Sodium sorbate	1000 mg/kg based on sorbic acid.
202	Potassium sorbate	Surface Treatment only *.
203	Calcium sorbate	
234	Nisin	12.5 mg/kg
235	Pimariein (natamyein) Natamycin (Pimaricin)	2 mg/dm ² Not present at a depth of 5 mm. Surface Treatment only *
251	Sodium nitrate	35 mg/kg, Singly or in combination
252	Potassium nitrate	(expressed as nitrate ion)
280	Propionic acid	3000 mg/kg
281	Sodium propionate	Surface Treatment only *
28 <u>3</u> 2	Potassium propionate	
Acidity Re	egulators	
170(i)	Calcium carbonate	Limited by GMP
504 (i)	Magnesium carbonate	Limited by GMP
575	Glucono delta-lactone	Limited by GMP
Anticaking		
460(i)	Microcrystalline cellulose (Cellulose gel)	Limited by GMP
460(ii)	Powdered cellulose	Limited by GMP
551	Silicon dioxide, amorphous	
552	Calcium silicate	
553(i)	Magnesium silicate (synthetic)	10000 mg/kg
553(iii)	Talc	singly or in combination
554	Sodium aluminosilicate	Silicates calculated as silicon dioxide
556	Calcium aluminium silicate	
559	Aluminium silicate	

^(*) For the definition of cheese surface and rind see Appendix to the *General Standard for Cheese* (CODEX STAN 283-1978)

STANDARD FOR SAMSØ (CODEX STAN 268-1966)

INS No.	Name of Additive	Maximum Level
Colours	·	
160a(i)	beta Carotenes, beta (synthetic)	
160a(iii)	beta-Carotenes, beta- (Blakeslea triaspora trispora)	35 mg/kg
160e	beta apo 8'-Carotenal, beta-apo-8'-	Singly or in combination
160f	beta apo 8'-Carotenoic acid, methyl or ethyl ester, beta- apo-8'-	
160a(ii)	beta-Carotenes, beta-(vegetable)	600 mg/kg
160b(ii)	Annatto extracts, norbixin based	25 mg/kg
Preservat	ives	
1105	Lysozyme	Limited by GMP
200	Sorbic acid	4000 # 4 4 4 4
201	Sodium sorbate	1000 mg/kg based on sorbic acid.
202	Potassium sorbate	Surface Treatment only *.
203	Calcium sorbate	
234	Nisin	12.5 mg/kg
235	Pimaricin (natamycin) Natamycin (Pimaricin)	2 mg/dm ² Not present at a depth of 5 mm. Surface Treatment only *
251	Sodium nitrate	35 mg/kg, Singly or in combination
252	Potassium nitrate	(expressed as nitrate ion)
280	Propionic acid	3000 mg/kg
281	Sodium propionate	Surface Treatment only *
28 <u>3</u> 2	Potassium propionate	,
Acidity R	egulators	
170(i)	Calcium carbonate	Limited by GMP
504 (i)	Magnesium carbonate	Limited by GMP
575	Glucono delta-lactone	Limited by GMP
Anticakin	g Agents	
1 (0 (1)	Microcrystalline cellulose (Cellulose gel)	Limited by GMP
460(i)	Microcrystannie centilose (Centilose ger)	Ellinted by GWI

INS No.	Name of Additive	Maximum Level
551	Silicon dioxide, amorphous	
552	Calcium silicate	
553(i)	Magnesium silicate (synthetic)	10000 mg/kg
553(iii)	Talc	singly or in combination
554	Sodium aluminosilicate	Silicates calculated as silicon dioxide
556	Calcium aluminium silicate	
559	Aluminium silicate	

^(*) For the definition of cheese surface and rind see Appendix to the *General Standard for Cheese* (CODEX STAN 283-1978)

STANDARD FOR EMMENTAL (CODEX STAN 269-1967)

INS No.	Name of Additive	Maximum Level		
Colours	Colours			
160a(i)	beta-Carotenes, beta- (synthetic)			
160a(iii)	beta-Carotenes, beta- (Blakeslea triaspora trispora)	35 mg/kg		
160e	beta apo 8'-Carotenal, beta-apo-8'-	Singly or in combination		
160f	beta ape 8' Carotenoic acid, methyl or ethyl ester, beta apo-8'-	0,		
160a(ii)	beta-Carotenes, beta- (vegetable)	600 mg/kg		
160b(ii)	Annatto extracts, norbixin-based	25 mg/kg		
Preservati	ves			
1105	Lysozyme	Limited by GMP		
200	Sorbic acid	4000 # 4 4 4 4 4		
201	Sodium sorbate	1000 mg/kg based on sorbic acid.		
202	Potassium sorbate	Surface Treatment only *.		
203	Calcium sorbate			
234	Nisin	12.5 mg/kg		
235	Pimariein (natamyein) Natamycin (Pimaricin)	2 mg/dm ² Not present at a depth of 5 mm. Surface Treatment only *		
251	Sodium nitrate	35 mg/kg, Singly or in combination		
252	Potassium nitrate	(expressed as nitrate ion)		
Acidity Re	gulators			
170(i)	Calcium carbonate	Limited by GMP		
504 (i)	Magnesium carbonate	Limited by GMP		
575	Glucono delta-lactone	Limited by GMP		
Anticaking				
460(i)	Microcrystalline cellulose (Cellulose gel)	Limited by GMP		
460(ii)	Powdered cellulose	Limited by GMP		
551	Silicon dioxide, amorphous			
552	Calcium silicate	10000 //		
553(i)	Magnesium silicate (synthetic)	10000 mg/kg		
553(iii)	Talc	singly or in combination Silicates calculated as silicon dioxide		
554	Sodium aluminosilicate	Sincates calculated as sincon dioxide		
556	Calcium aluminium silicate			
559	Aluminium silicate			

^(*) For the definition of cheese surface and rind see Appendix to the *General Standard for Cheese* (CODEX STAN 283-1978)

STANDARD FOR TILSITER (CODEX STAN 270-1968)

INS No.	Name of Additive	Maximum Level
Colours		
160a(i)	beta-Carotenes, beta- (synthetic)	
160a(iii)	beta- Carotene <u>s</u> , beta- (Blakeslea triaspora trispora)	35 mg/kg
160e	beta apo 8'-Carotenal, beta-apo-8'-	Singly or in combination
160f	beta apo 8'-Carotenoic acid, methyl or ethyl ester, beta-apo-8'-	
160a(ii)	beta-Carotenes, beta-(vegetable)	600 mg/kg
160b(ii)	Annatto extracts, norbixin-based	25 mg/kg
Preservati	ves	
1105	Lysozyme	Limited by GMP
200	Sorbic acid	
201	Sodium sorbate	1000 mg/kg based on sorbic acid.
202	Potassium sorbate	Surface Treatment only *.
203	Calcium sorbate	
234	Nisin	12.5 mg/kg

INS No.	Name of Additive	Maximum Level
235	Pimaricin (natamycin) Natamycin (Pimaricin)	2 mg/dm ² Not present at a depth of 5 mm. Surface Treatment only *
251	Sodium nitrate	35 mg/kg, Singly or in combination
252	Potassium nitrate	(expressed as nitrate ion)
280	Propionic acid	3000 mg/kg
281	Sodium propionate	Surface Treatment only *
28 <u>3</u> 2	Potassium propionate	
Acidity Ro	egulators	
170(i)	Calcium carbonate	Limited by GMP
504 (i)	Magnesium carbonate	Limited by GMP
575	Glucono delta-lactone	Limited by GMP
Anticakin	g Agents	
460(i)	Microcrystalline cellulose (Cellulose gel)	Limited by GMP
460(ii)	Powdered cellulose	Limited by GMP
551	Silicon dioxide, amorphous	
552	Calcium silicate	
553(i)	Magnesium silicate (synthetic)	10000 mg/kg
553(iii)	Talc	singly or in combination
554	Sodium aluminosilicate	Silicates calculated as silicon dioxide
556	Calcium aluminium silicate	
559	Aluminium silicate	

^(*) For the definition of cheese surface and rind see Appendix to the *General Standard for Cheese* (CODEX STAN 283-1978)

STANDARD FOR SAINT-PAULIN (CODEX STAN 271-1968)

Colours 160a(ii) beta-Carotenes, beta- (synthetic) beta-Carotenes, beta- (Blakeslea triaspora Irispora) 160a(iii) beta-Carotenes, beta- (Blakeslea triaspora Irispora) 160b beta-apo-S'-Carotenal, beta-apo-S'-Carotenal, beta-apo-S'-Carotenes, beta-free five field of the page S'-Carotenes (and methyl or ethyl ester, beta-apo-S'-Carotenes, beta-free five field of the page S'-Carotenes, beta-free field of the pa	INS No.	Name of Additive	Maximum Level
160a(iii) beter Carotenes, beta- (Blakeslea triaspora trispora) 160a 160b 160a 16	Colours		
160a(iii) beta-Carotenes, beta-(Blakeslea triaspora trispora) 160a(iii) beta-apo-S'- Carotenoia caid, methyl or ethyl ester, beta-apo-S'- Carotenoia caid, methyl or ethyl ester, beta-apo-S'- 160a(ii) beta-apo-S'- Carotenoia caid, methyl or ethyl ester, beta-apo-S'- 160b(iii) Annatto extracts, norbixin-based 25 mg/kg	160a(i)	beta-Carotenes, beta- (synthetic)	
Singly or in combination Singly or in combination	160a(iii)		35 mg/kg
160f	160e		
Reservatives Limited by GMP	160f		2
Preservatives Limited by GMP	160a(ii)		
Limited by GMP	160b(ii)	Annatto extracts, norbixin-based	25 mg/kg
200 Sorbic acid 201 Sodium sorbate Surface Treatment only *.	Preservati	ves	
201 Sodium sorbate 202 Potassium sorbate 203 Calcium sorbate 234 Nisin 12.5 mg/kg 2 mg/dm² Not present at a depth of 5 mm. Surface Treatment only * 2 mg/dm² Not present at a depth of 5 mm. Surface Treatment only * 35 mg/kg, Singly or in combination 252 Potassium nitrate 35 mg/kg, Singly or in combination (expressed as nitrate ion) 280 Propionic acid 3000 mg/kg Surface Treatment only * 2 mg/dm² Not present at a depth of 5 mm. Surface Treatment only * 2 mg/dm² Not present at a depth of 5 mm. Surface Treatment only * 2 mg/dm² Not present at a depth of 5 mm. Surface Treatment only * 35 mg/kg, Singly or in combination (expressed as nitrate ion) 280 Propionic acid 3000 mg/kg Surface Treatment only * 2 mg/dm² Not present at a depth of 5 mm. Surface Treatment only * 2 mg/dm² Not present at a depth of 5 mm. Surface Treatment only * 35 mg/kg, Singly or in combination 2 mg/kg, Singly or in combination 2 mg/kg Surface Treatment only * 2 mg/dm² Not present at a depth of 5 mm. Surface Treatment only * 35 mg/kg, Singly or in combination 2 mg/kg, Singly or in combination 2 mg/dm² Not present at a depth of 5 mm. Surface Treatment only * 35 mg/kg, Singly or in combination 3 mg/kg, Singly or in combination 2 mg/kg 3 mg/kg, Singly or in combination 3 mg/kg, Singly or in com	1105		Limited by GMP
202 Potassium sorbate 203 Calcium sorbate 234 Nisin 235 Pimaricin (natamycin) Natamycin (Pimaricin) 251 Sodium nitrate 252 Potassium nitrate 253 Propionic acid 254 Sodium propionate 255 Potassium propionate 265 Potassium propionate 275 Sodium propionate 286 Propionic acid 287 Potassium propionate 287 Potassium propionate 288 Sodium propionate 289 Potassium propionate 280 Limited by GMP 280 Surface Treatment only * 281 Surface Treatment only * 281 Surface Treatment only * 282 Surface Treatment only * 283 Surface Treatment only * 284 Surface Treatment only * 285 Surface Treatment only * 286 Surface Treatment only * 287 Surface Treatment only * 288 Surface Treatment only * 289 Surface Treatment only * 280 Magnesium carbonate 280 Surface Treatment only * 281 Surface Treatment only * 282 Surface Treatment only * 283 Surface Treatment only * 284 Surface Treatment only * 285 Surface Treatment only * 286 Surface Treatment only * 287 Surface Treatment only * 288 Surface Treatment only * 289 Surface Treatment only * 280 Surface T	200	Sorbic acid	
203 Calcium sorbate 234 Nisin 12.5 mg/kg 235 Pimaricin (natamycin) Natamycin (Pimaricin) 251 Sodium nitrate 35 mg/kg, Singly or in combination 252 Potassium nitrate (expressed as nitrate ion) 280 Propionic acid 3000 mg/kg 281 Sodium propionate Surface Treatment only * 282 Potassium propionate Surface Treatment only * 2832 Potassium propionate 264 Acidity Regulators 270(i) Calcium carbonate Limited by GMP 280(ii) Magnesium carbonate Limited by GMP 281 Glucono delta-lactone Limited by GMP 282 Limited by GMP 2834 Sodium earbonate Limited by GMP 284 Limited by GMP 2855 Glucono delta-lactone Limited by GMP 2856 Calcium silicate (synthetic) 2856 Calcium aluminosilicate 286 Sodium aluminosilicate 287 Sodium aluminosilicate 387 Sodium aluminosilicate 388 Sodium aluminosilicate 388 Sodium aluminosilicate 388 Sodium aluminosilicate 389 Sodium aluminosilicate 389 Sodium aluminosilicate 380 mg/kg 380 mg/k	201	Sodium sorbate	
234 Nisin 12.5 mg/kg 2 mg/dm² Not present at a depth of 5 mm. Surface Treatment only * 251 Sodium nitrate 35 mg/kg, Singly or in combination (expressed as nitrate ion) 280 Propionic acid 3000 mg/kg 3000 mg/kg 281 Sodium propionate Surface Treatment only * 2832 Potassium propionate Surface Treatment only * 28432 Potassium propionate Limited by GMP 504(i) Magnesium carbonate Limited by GMP 504(i) Magnesium carbonate Limited by GMP Anticaking Agents Limited by GMP Limited by GMP 460(i) Microcrystalline cellulose (Cellulose gel) Limited by GMP 460(ii) Powdered cellulose Limited by GMP 551 Silicon dioxide, amorphous 552 Calcium silicate Silicate Silicates calculated as silicon dioxide Silicates calculated Silicates Silicat	202	Potassium sorbate	Surface Treatment only *.
2 mg/dm² Not present at a depth of 5 mm. Surface Treatment only * 251 Sodium nitrate 35 mg/kg, Singly or in combination 252 Potassium nitrate (expressed as nitrate ion) 280 Propionic acid 3000 mg/kg 281 Sodium propionate Surface Treatment only * 2832 Potassium propionate Acidity Regulators 170(i) Calcium carbonate Limited by GMP 504(i) Magnesium carbonate Limited by GMP 575 Glucono delta-lactone Limited by GMP Anticaking Agents 460(i) Microcrystalline cellulose (Cellulose gel) Limited by GMP 551 Silicon dioxide, amorphous 552 Calcium silicate 553(i) Magnesium silicate (synthetic) 553(iii) Talc 554 Sodium aluminosilicate 556 Calcium aluminium silicate	203	Calcium sorbate	
Treatment only * 251 Sodium nitrate 252 Potassium nitrate 280 Propionic acid 281 Sodium propionate 282 Potassium propionate 2832 Potassium propionate Acidity Regulators 170(i) Calcium carbonate 575 Glucono delta-lactone Anticaking Agents 460(i) Microcrystalline cellulose (Cellulose gel) 460(ii) Powdered cellulose 551 Silicon dioxide, amorphous 552 Calcium silicate 553(ii) Magnesium silicate 554 Sodium aluminosilicate 556 Calcium aluminium silicate Treatment only * 35 mg/kg, Singly or in combination (expressed as nitrate ion) 3000 mg/kg Surface Treatment only * 10000 mg/kg Surface Treatment only * 10000 mg/kg Surface Treatment only * 10000 mg/kg Silicates calculated as silicon dioxide Silicates calculated as silicon dioxide	234	Nisin	12.5 mg/kg
252Potassium nitrate(expressed as nitrate ion)280Propionic acid3000 mg/kg281Sodium propionateSurface Treatment only *2832Potassium propionateLimited by GMPAcidity Regulators170(i)Calcium carbonateLimited by GMP504(i)Magnesium carbonateLimited by GMP575Glucono delta-lactoneLimited by GMPAnticaking Agents460(i)Microcrystalline cellulose (Cellulose gel)Limited by GMP551Silicon dioxide, amorphousLimited by GMP552Calcium silicate10000 mg/kg553(ii)Magnesium silicate (synthetic)singly or in combination554Sodium aluminosilicateSilicates calculated as silicon dioxide556Calcium aluminium silicateSilicates calculated as silicon dioxide	235	Pimaricin (natamycin) Natamycin (Pimaricin)	
280Propionic acid3000 mg/kg281Sodium propionateSurface Treatment only *2832Potassium propionateLimited by GMP170(i)Calcium carbonateLimited by GMP504(i)Magnesium carbonateLimited by GMP575Glucono delta-lactoneLimited by GMPAnticaking AgentsLimited by GMP460(i)Microcrystalline cellulose (Cellulose gel)Limited by GMP551Silicon dioxide, amorphousLimited by GMP552Calcium silicate10000 mg/kg553(ii)Magnesium silicate (synthetic)singly or in combination554Sodium aluminosilicateSilicates calculated as silicon dioxide556Calcium aluminium silicate	251	Sodium nitrate	35 mg/kg, Singly or in combination
Solium propionate Surface Treatment only *	252	Potassium nitrate	(expressed as nitrate ion)
281Sodium propionateSurface Treatment only *2832Potassium propionateLimited by GMP170(i)Calcium carbonateLimited by GMP504(i)Magnesium carbonateLimited by GMP575Glucono delta-lactoneLimited by GMPAnticaking AgentsLimited by GMP460(i)Microcrystalline cellulose (Cellulose gel)Limited by GMP551Silicon dioxide, amorphousLimited by GMP552Calcium silicate10000 mg/kg553(ii)Magnesium silicate (synthetic)singly or in combination553(iii)TalcSilicates calculated as silicon dioxide554Sodium aluminosilicateSilicates calculated as silicon dioxide	280	Propionic acid	3000 mg/kg
2832 Potassium propionate Acidity Regulators 170(i) Calcium carbonate Limited by GMP 504(i) Magnesium carbonate Limited by GMP 575 Glucono delta-lactone Limited by GMP Anticaking Agents 460(i) Microcrystalline cellulose (Cellulose gel) Limited by GMP 460(ii) Powdered cellulose Limited by GMP 551 Silicon dioxide, amorphous 552 Calcium silicate 553(i) Magnesium silicate (synthetic) 553(iii) Talc 554 Sodium aluminosilicate 556 Calcium aluminium silicate	281	Sodium propionate	
170(i)Calcium carbonateLimited by GMP504(i)Magnesium carbonateLimited by GMP575Glucono delta-lactoneLimited by GMPAnticaking Agents460(i)Microcrystalline cellulose (Cellulose gel)Limited by GMP460(ii)Powdered celluloseLimited by GMP551Silicon dioxide, amorphousLimited by GMP552Calcium silicate10000 mg/kg553(ii)Magnesium silicate (synthetic)singly or in combination554Sodium aluminosilicateSilicates calculated as silicon dioxide556Calcium aluminium silicate	28 <u>3</u> 2	Potassium propionate	~ ************************************
504(i)Magnesium carbonateLimited by GMP575Glucono delta-lactoneLimited by GMPAnticaking AgentsLimited by GMP460(i)Microcrystalline cellulose (Cellulose gel)Limited by GMP460(ii)Powdered celluloseLimited by GMP551Silicon dioxide, amorphousSilicon dioxide, amorphous552Calcium silicate10000 mg/kg553(ii)Magnesium silicate (synthetic)singly or in combination554Sodium aluminosilicateSilicates calculated as silicon dioxide556Calcium aluminium silicate	Acidity Ro	egulators	
575 Glucono delta-lactone Limited by GMP Anticaking Agents 460(i) Microcrystalline cellulose (Cellulose gel) Limited by GMP 460(ii) Powdered cellulose Limited by GMP 551 Silicon dioxide, amorphous 552 Calcium silicate 553(i) Magnesium silicate (synthetic) 553(iii) Talc 554 Sodium aluminosilicate 556 Calcium aluminium silicate	170(i)	Calcium carbonate	Limited by GMP
Anticaking Agents 460(i) Microcrystalline cellulose (Cellulose gel) Limited by GMP 460(ii) Powdered cellulose Limited by GMP 551 Silicon dioxide, amorphous 552 Calcium silicate 553(i) Magnesium silicate (svnthetic) 553(iii) Talc Sodium aluminosilicate 554 Sodium aluminosilicate 556 Calcium aluminium silicate	504(i)	Magnesium carbonate	Limited by GMP
460(i)Microcrystalline cellulose (Cellulose gel)Limited by GMP460(ii)Powdered celluloseLimited by GMP551Silicon dioxide, amorphousSilicon dioxide, amorphous552Calcium silicate10000 mg/kg553(ii)Magnesium silicate (synthetic)singly or in combination554Sodium aluminosilicateSilicates calculated as silicon dioxide556Calcium aluminium silicate	575	Glucono delta-lactone	Limited by GMP
460(ii) Powdered cellulose Limited by GMP 551 Silicon dioxide, amorphous 552 Calcium silicate 553(i) Magnesium silicate (synthetic) 553(iii) Talc 554 Sodium aluminosilicate 556 Calcium aluminium silicate Limited by GMP 10000 mg/kg singly or in combination Silicates calculated as silicon dioxide	Anticakin	g Agents	
551 Silicon dioxide, amorphous 552 Calcium silicate 553(i) Magnesium silicate (synthetic) 553(iii) Tale 554 Sodium aluminosilicate 556 Calcium aluminium silicate Silicates calculated as silicon dioxide	460(i)	Microcrystalline cellulose (Cellulose gel)	Limited by GMP
552Calcium silicate10000 mg/kg553(i)Magnesium silicate (synthetic)10000 mg/kg553(iii)Talcsingly or in combination554Sodium aluminosilicateSilicates calculated as silicon dioxide556Calcium aluminium silicate	460(ii)		Limited by GMP
553(i)Magnesium silicate (synthetic)10000 mg/kg553(iii)Talcsingly or in combination554Sodium aluminosilicateSilicates calculated as silicon dioxide556Calcium aluminium silicate			
Singly or in combination Silicates calculated as silicon dioxide	552	Calcium silicate	
553(iii)Talesingly or in combination554Sodium aluminosilicateSilicates calculated as silicon dioxide556Calcium aluminium silicate		Magnesium silicate (synthetic)	
556 Calcium aluminium silicate		2 41.0	
	554		Silicates calculated as silicon dioxide
559 Aluminium silicate		Calcium aluminium silicate	
	559	Aluminium silicate	

^(*) For the definition of cheese surface and rind see Appendix to the General Standard for Cheese (CODEX STAN 283-1978)

STANDARD FOR PROVOLONE (CODEX STAN 272-1968)

INS No.	Name of Additive	Maximum Level
Colours		
160a(i)	beta-Carotenes, beta- (synthetic)	
160a(iii)	beta-Carotenes, beta- (Blakeslea triaspora trispora)	35 mg/kg
160e	beta apo 8'-Carotenal, beta-apo-8'-	Singly or in combination
160f	beta apo 8'-Carotenoic acid, methyl or ethyl ester, beta-apo-8'-	55., 5 5
160a(ii)	beta-Carotenes, beta-(vegetable)	600 mg/kg
171	Titanium dioxide	Limited by GMP
160b(ii)	Annatto extracts, norbixin-based	25 mg/kg
Preservati	ves	
1105	Lysozyme	Limited by GMP
200	Sorbic acid	•
201	Sodium sorbate	1000 mg/kg based on sorbic acid.
202	Potassium sorbate	Surface Treatment only *.
203	Calcium sorbate	
234	Nisin	12.5 mg/kg
235	Pimaricin (natamycin) Natamycin (Pimaricin)	2 mg/dm ² Not present at a depth of 5 mm. Surface Treatment only *
239	Hexamethylene tetramine	25 mg/kg Expressed as formaldehyde
251	Sodium nitrate	35 mg/kg, Singly or in combination
252	Potassium nitrate	(expressed as nitrate ion)
280	Propionic acid	3000 mg/kg
281	Sodium propionate	Surface Treatment only *
28 <u>3</u> 2	Potassium propionate	
Acidity Ro	egulators	
170(i)	Calcium carbonate	Limited by GMP
504 (i)	Magnesium carbonate	Limited by GMP
575	Glucono delta-lactone	Limited by GMP
Anticakin	g Agents	
460(i)	Microcrystalline cellulose (Cellulose gel)	Limited by GMP
460(ii)	Powdered cellulose	Limited by GMP
551	Silicon dioxide, amorphous	
552	Calcium silicate	
553(i)	Magnesium silicate (synthetic)	10000 mg/kg
553(iii)	Talc	singly or in combination
554	Sodium aluminosilicate	Silicates calculated as silicon dioxide
556	Calcium aluminium silicate	
559	Aluminium silicate	
		1.6 1 1.6 GL (GODEN GEAN A02 1050)

^(*) For the definition of cheese surface and rind see Appendix to the *General Standard for Cheese* (CODEX STAN 283-1978)

STANDARD FOR COTTAGE CHEESE (CODEX STAN 273-1968)

INS No.	Name of Additive	Maximum Level
Preservat	ives	
200	Sorbic acid	1000 mg/kg
201	Sodium sorbate	singly or in combination
202	Potassium sorbate	as sorbic acid
203	Calcium sorbate	
234	Nisin	12.5 mg/kg
280	Propionic acid	
281	Sodium propionate	Limited by GMP
282	Calcium propionate	
283	Potassium propionate	
Acidity R	egulators	
170(i)	Calcium carbonate	Limited by GMP
<u>260</u>	Acetic acid (glacial)	<u>Limited by GMP</u>
261(i)	Potassium acetate	Limited by GMP
261(ii)	Potassium diacetate	Limited by GMP
262(i)	Sodium acetate	Limited by GMP
263	Calcium acetate	Limited by GMP
<u>270</u>	Lactic acid (L-, D-, and DL-)	<u>Limited by GMP</u>
<u>296</u>	Malic acid (DL-)	<u>Limited by GMP</u>
325	Sodium lactate	Limited by GMP
326	Potassium lactate	Limited by GMP

INS No.	Name of Additive	Maximum Level
327	Calcium lactate	Limited by GMP
330	Citric acid	Limited by GMP
338	Orthop-Phosphoric acid	880 mg/kg as phosphorus
350(i)	Sodium hydrogen DL -malate	Limited by GMP
350(ii)	Sodium DL -malate	Limited by GMP
351(i)	Potassium hydrogen malate	Limited by GMP
351(ii)	Potassium malate	Limited by GMP
352(ii)	Calcium malate (D , L -)	Limited by GMP
500(i)	Sodium carbonate	Limited by GMP
500(ii)	Sodium hydrogen carbonate	Limited by GMP
500(iii)	Sodium sesquicarbonate	Limited by GMP
501(i)	Potassium carbonate	Limited by GMP
501(ii)	Potassium hydrogen carbonate	Limited by GMP
504(i)	Magnesium carbonate	Limited by GMP
504(ii)	Magnesium hydrogen carbonate	Limited by GMP
<u>507</u>	Hydrochloric acid	Limited by GMP
575	Glucono delta-lactone	Limited by GMP
577	Potassium gluconate	Limited by GMP
578	Calcium gluconate	Limited by GMP
Acids	Culcium giuconaic	Limited by Givii
260	Acetic acid (glacial)	Limited by GMP
270	Lactic acid (L., D., and DL.)	Limited by GMP
270 296	Malie acid (DL-)	Limited by GMP
290 330	Citric acid	Limited by GMP
338	OrthopPhosphoric acid	880 mg/kg as phosphorus
507	Hydrochlorie acid	Limited by GMP
Stabilizers		Elinited by GWIF
331(i)	Sodium dihydrogen citrate	Limited by GMP
332(i)	Potassium dihydrogen citrate	Limited by GMP
333	Calcium citrates	Limited by GMP
339(i)	Monos Sodium dihydrogen Orthophosphate	Ellilited by Givii
339(ii)	Disodium hydrogen Orthophosphate	_
339(iii)	Trisodium Orthophosphate Trisodium Orthophosphate	_
340(i)	MonopPotassium dihydrogen Orthophosphate	_
340(ii)	Dipotassium hydrogen Orthophosphate	_
340(iii)	Tripotassium Orthophosphate Tripotassium Orthophosphate	_
340(iii) 341(i)	Monocalcium dihydrogen Orthophosphate	_
341(ii)	Die Calcium hydrogen Orthophosphate	_
341(iii)	Tricalcium Orthophosphate Tricalcium Orthophosphate	_
		_
342(i)	Monea Ammonium dihydrogen orthophosphate	
342(ii)	Diammonium hydrogen orthophosphate	1300 mg/kg, singly or in combination,
343(ii)	Dim Magnesium hydrogen orthophosphate	expressed as phosphorus
343(iii)	Trimagnesium orthophosphate	\dashv
450(i)	Disodium diphosphate	\dashv
450(iii)	Tetrasodium diphosphate Tetrapotassium diphosphate	\dashv
450(v)		\dashv
450(vi)	Dicalcium diphosphate	
451(i)	Pentasodium triphosphate	\dashv
451(ii)	Pentapotassium triphosphate	\dashv
452(i)	Sodium polyphosphate	⊣
452(ii)	Potassium polyphosphate	⊣
452(iv)	Calcium polyphosphate	⊣
452(v)	Ammonium polyphosphate	Their II CAD
400	Alginic acid	Limited by GMP
401	Sodium alginate	Limited by GMP
402	Potassium alginate	Limited by GMP
102		
403	Ammonium alginate	Limited by GMP
404	Calcium alginate	Limited by GMP
404 405	Calcium alginate Propylene glycol alginate	Limited by GMP 5000 mg/kg
404	Calcium alginate Propylene glycol alginate Agar	Limited by GMP
404 405 406	Calcium alginate Propylene glycol alginate Agar Carrageenan and its Na, K, NH4, Ca and Mg salts	Limited by GMP 5000 mg/kg Limited by GMP
404 405 406 407	Calcium alginate Propylene glycol alginate Agar Carrageenan and its Na, K, NH ₄ , Ca and Mg salts (includes Furcelleran)	Limited by GMP 5000 mg/kg Limited by GMP Limited by GMP
404 405 406 407 407a	Calcium alginate Propylene glycol alginate Agar Carrageenan and its Na, K, NH4, Ca and Mg salts (includes Furcelleran) Processed Euchema seaweed (PES)	Limited by GMP 5000 mg/kg Limited by GMP Limited by GMP Limited by GMP
404 405 406 407	Calcium alginate Propylene glycol alginate Agar Carrageenan and its Na, K, NH ₄ , Ca and Mg salts (includes Furcelleran)	Limited by GMP 5000 mg/kg Limited by GMP Limited by GMP

INS No.	Name of Additive	Maximum Level
413	Tragacanth gum	Limited by GMP
415	Xanthan gum	Limited by GMP
416	Karaya gum	Limited by GMP
417	Tara gum	Limited by GMP
440	Pectins	Limited by GMP
466	Sodium carboxymethyl cellulose (cellulose gum)	Limited by GMP
Stabilizer:	s (Modified Starehes)	
1400	Dextrins, roasted Starch	Limited by GMP
1401	Acid-treated Starch	Limited by GMP
1402	Alkaline-treated starch	Limited by GMP
1403	Bleached starch	Limited by GMP
1404	Oxidized starch	Limited by GMP
1405	Starches, enzyme-treated	Limited by GMP
1410	Monostarch phosphate	Limited by GMP
1412	Distarch phosphate	Limited by GMP
1413	Phosphated distarch phosphate	Limited by GMP
1414	Acetylated distarch phosphate	Limited by GMP
1420	Starch Acetate	Limited by GMP
1422	Acetylated distarch adipate	Limited by GMP
1440	Hydroxypropyl starch	Limited by GMP
1442	Hydroxypropyl distarch phosphate	Limited by GMP

STANDARD FOR COULOMMIERS (CODEX STAN 274-1969)

INS No.	Name of Additive	Maximum Level
Colours		
160a(i)	beta-Carotenes, beta- (synthetic)	
160a(iii)	beta-Carotene, beta- (Blakeslea triaspora trispora) 35 mg/kg	
160e	beta apo 8'- Carotenal, beta-apo-8'-	Singly or in combination
160f	beta apo 8' Carotenoic acid, methyl or ethyl ester, beta-	
1001	apo-8'-	
160a(ii)	beta-Carotenes, beta-(vegetable)	600 mg/kg
160b(ii)	Annatto extracts, norbixin-based 25 mg/kg	
Acidity Ro	Acidity Regulators	
575	Glucono delta-lactone	Limited by GMP

STANDARD FOR CREAM CHEESE (CODEX STAN 275-1973)

INS No.	Name of Additive	Maximum Level
Preservat	tives	
200	Sorbic acid	
201	Sodium sorbate	1000 mg/kg
202	Potassium sorbate	singly or in combination as sorbic acid
203	Calcium sorbate	
234	Nisin	12.5 mg/kg
280	Propionic acid	
281	Sodium propionate	Limited by GMP
282	Calcium propionate	
283	Potassium propionate	
Acidity R	egulators	
170(i)	Calcium carbonate	Limited by GMP
<u>260</u>	Acetic acid (glacial)	Limited by GMP
261(i)	Potassium acetate	Limited by GMP
261(ii)	Potassium diacetate	Limited by GMP
262(i)	Sodium acetate	Limited by GMP
263	Calcium acetate	Limited by GMP
<u>270</u>	Lactic acid (L-, D-, and DL-)	Limited by GMP
<u>296</u>	Malic acid (DL-)	Limited by GMP
<u>325</u>	Sodium lactate	Limited by GMP
<u>326</u>	Potassium lactate	Limited by GMP
327	Calcium lactate	Limited by GMP
330	Citric acid	Limited by GMP
331(i)	Sodium dihydrogen citrate	Limited by GMP
332(i)	Potassium dihydrogen citrate	Limited by GMP
333	Calcium citrates	Limited by GMP

INS No.	Name of Additive	Maximum Level
334	Tartaric acid (L(+)-)	
335(i)	Monosodium tartrate	1500 mg/kg
335(ii)	DisSodium L(+)-tartrate	singly or in combination
336(i)	Monopotassium tartrate	as tartaric acid
336 (ii)	<u>Dipotassium tartrate</u>	
<u>337</u>	Potassium sodium L(+)-tartrate	
<u>338</u>	OrthopPhosphoric acid	880 mg/kg as phosphorus
350(i)	Sodium hydrogen <u>DL-</u> malate	Limited by GMP
350(ii)	Sodium <u>DL-</u> malate	Limited by GMP
351(i)	Potassium hydrogen malate	Limited by GMP
351(ii)	Potassium malate	Limited by GMP
352(ii)	Calcium malate (D, L-)	Limited by GMP
500(i)	Sodium carbonate	Limited by GMP
500(ii)	Sodium hydrogen carbonate	Limited by GMP
500(iii)	Sodium sesquicarbonate	Limited by GMP
501(i)	Potassium carbonate	Limited by GMP Limited by GMP
501(ii)	Potassium hydrogen carbonate	Limited by GMP
504(i) 504(ii)	Magnesium carbonate Magnesium hydrogen carbonate	Limited by GMP Limited by GMP
504(11) 507	Hydrochloric acid	Limited by GMP Limited by GMP
	ilyurochioric aciu	<u> </u>
575	Glucono-delta-lactone	Limited by GMP
577	Potassium gluconate	Limited by GMP
578	Calcium gluconate	Limited by GMP
Acids		
260	Acetic acid (glacial)	Limited by GMP
270	Lactic acid (L-, D-, and DL-)	Limited by GMP
296	Malic acid (DL-)	Limited by GMP
330	Citric acid	Limited by GMP
338	OrthopPhosphoric acid	880 mg/kg as phosphorus
507	Hydrochloric acid	Limited by GMP
331(i)	Sodium dihydrogen citrate	Limited by GMP
332(i)	Potassium dihydrogen citrate	Limited by GMP
333 334	Calcium citrates	Limited by GMP
335(i)	Tartarie acid (L(+)-) Monosodium tartrate	
335(ii)	Dis <u>S</u> odium <u>L(+)</u> -tartrate	1500 mg/kg
336(i)	Monopotassium tartrate	singly or in combination as tartaric acid
336 (ii)	Dipotassium tartrate	as tartarie delu
337	Potassium sodium <u>L(+)-tartrate</u>	
	Stabilizers	
339(i)	Stabilizers Monos Sodium dihydrogen Orthophosphate	
339(i) 339(ii)	MonosSodium dihydrogen Orthophosphate	
	Monos Sodium dihydrogen Orthophosphate Disodium hydrogen Orthophosphate	
339(ii)	MonosSodium dihydrogen Orthophosphate	
339(ii) 339(iii) 340(i) 340(ii)	Monos Sodium dihydrogen Orthophosphate Disodium hydrogen Orthophosphate Trisodium Orthophosphate	
339(ii) 339(iii) 340(i)	Monos Sodium dihydrogen Orthophosphate Disodium hydrogen Orthophosphate Trisodium Orthophosphate Monop Potassium dihydrogen Orthophosphate Dipotassium hydrogen Orthophosphate Tripotassium Orthophosphate	
339(ii) 339(iii) 340(i) 340(ii) 340(iii) 341(i)	Monos Sodium dihydrogen Orthophosphate Disodium hydrogen Orthophosphate Trisodium Orthophosphate Monop Potassium dihydrogen Orthophosphate Dipotassium hydrogen Orthophosphate	
339(ii) 339(iii) 340(i) 340(ii) 340(iii) 341(i) 341(ii)	Monos Sodium dihydrogen Orthophosphate Disodium hydrogen Orthophosphate Trisodium Orthophosphate Monop Potassium dihydrogen Orthophosphate Dipotassium hydrogen Orthophosphate Tripotassium Orthophosphate Tripotassium Orthophosphate Monocalcium dihydrogen Orthophosphate Die Calcium hydrogen Orthophosphate	
339(ii) 339(iii) 340(i) 340(ii) 340(iii) 341(i) 341(ii) 341(iii)	Monos Sodium dihydrogen Orthophosphate Disodium hydrogen Orthophosphate Trisodium Orthophosphate Monop Potassium dihydrogen Orthophosphate Dipotassium hydrogen Orthophosphate Tripotassium Orthophosphate Monocalcium dihydrogen Orthophosphate Monocalcium dihydrogen Orthophosphate Die Calcium hydrogen Orthophosphate Tricalcium Orthophosphate	
339(ii) 339(iii) 340(i) 340(ii) 340(iii) 341(i) 341(ii) 341(iii) 342(i)	Monos Sodium dihydrogen Orthophosphate Disodium hydrogen Orthophosphate Trisodium Orthophosphate Monop Potassium dihydrogen Orthophosphate Dipotassium hydrogen Orthophosphate Tripotassium Orthophosphate Monocalcium dihydrogen Orthophosphate Monocalcium hydrogen Orthophosphate Die Calcium hydrogen Orthophosphate Tricalcium Orthophosphate Tricalcium Orthophosphate Monoca Ammonium dihydrogen Orthophosphate	4400 //
339(ii) 339(iii) 340(i) 340(ii) 341(ii) 341(ii) 341(iii) 342(ii)	Monos Sodium dihydrogen Orthophosphate Disodium hydrogen Orthophosphate Trisodium Orthophosphate Monos Potassium dihydrogen Orthophosphate Dipotassium hydrogen Orthophosphate Tripotassium Orthophosphate Monocalcium dihydrogen Orthophosphate Monocalcium hydrogen Orthophosphate Die Calcium hydrogen Orthophosphate Tricalcium Orthophosphate Tricalcium Orthophosphate Monoa Ammonium dihydrogen orthophosphate Diammonium hydrogen orthophosphate	4400 mg/kg
339(ii) 339(iii) 340(i) 340(ii) 341(ii) 341(ii) 341(iii) 342(i) 342(ii) 343(ii)	Monos Sodium dihydrogen Orthophosphate Disodium hydrogen Orthophosphate Trisodium Orthophosphate Monos Potassium dihydrogen Orthophosphate Dipotassium hydrogen Orthophosphate Tripotassium Orthophosphate Monocalcium dihydrogen Orthophosphate Monocalcium hydrogen Orthophosphate Die Calcium hydrogen Orthophosphate Tricalcium Orthophosphate Tricalcium Orthophosphate Monoca Memonium dihydrogen Orthophosphate Diammonium hydrogen Orthophosphate Diammonium hydrogen Orthophosphate Diammonium hydrogen Orthophosphate Diammonium hydrogen Orthophosphate	singly or in combination,
339(ii) 339(iii) 340(i) 340(ii) 341(ii) 341(ii) 342(i) 342(ii) 343(ii) 343(iii)	Monos Sodium dihydrogen Orthophosphate Disodium hydrogen Orthophosphate Trisodium Orthophosphate Monos Potassium dihydrogen Orthophosphate Dipotassium hydrogen Orthophosphate Tripotassium Orthophosphate Monocalcium dihydrogen Orthophosphate Monocalcium hydrogen Orthophosphate Die Calcium hydrogen Orthophosphate Tricalcium Orthophosphate Monoca Mmonium dihydrogen orthophosphate Diammonium hydrogen orthophosphate Diammonium hydrogen orthophosphate Dimmagnesium hydrogen orthophosphate Trimagnesium orthophosphate	
339(ii) 339(iii) 340(i) 340(ii) 341(ii) 341(ii) 342(i) 342(ii) 343(ii) 343(iii) 450(i)	Monos Sodium dihydrogen Orthophosphate Disodium hydrogen Orthophosphate Trisodium Orthophosphate Monosp Potassium dihydrogen Orthophosphate Dipotassium hydrogen Orthophosphate Tripotassium Orthophosphate Monocalcium dihydrogen Orthophosphate Monocalcium hydrogen Orthophosphate Die Calcium hydrogen Orthophosphate Tricalcium Orthophosphate Monos Ammonium dihydrogen orthophosphate Diammonium hydrogen orthophosphate Diammonium hydrogen orthophosphate Dimmonium hydrogen orthophosphate Trimagnesium orthophosphate Trimagnesium orthophosphate Disodium diphosphate	singly or in combination,
339(ii) 339(iii) 340(i) 340(ii) 341(ii) 341(iii) 342(ii) 342(ii) 343(iii) 343(iii) 450(i) 450(iii)	Mones Sodium dihydrogen Orthophosphate Disodium hydrogen Orthophosphate Trisodium Orthophosphate Monop Potassium dihydrogen Orthophosphate Dipotassium hydrogen Orthophosphate Tripotassium Orthophosphate Monocalcium dihydrogen Orthophosphate Monocalcium hydrogen Orthophosphate Die Calcium hydrogen Orthophosphate Tricalcium Orthophosphate Tricalcium Orthophosphate Mono Ammonium dihydrogen orthophosphate Diammonium hydrogen orthophosphate Diammonium hydrogen orthophosphate Trimagnesium orthophosphate Trimagnesium orthophosphate Trimagnesium orthophosphate Tetrasodium diphosphate	singly or in combination,
339(ii) 339(iii) 340(i) 340(ii) 340(iii) 341(ii) 341(iii) 342(ii) 342(ii) 343(iii) 343(iii) 450(i) 450(v)	Monos Sodium dihydrogen Orthophosphate Disodium hydrogen Orthophosphate Trisodium Orthophosphate Monos Potassium dihydrogen Orthophosphate Dipotassium hydrogen Orthophosphate Tripotassium Orthophosphate Monocalcium dihydrogen Orthophosphate Monocalcium hydrogen Orthophosphate Die Calcium hydrogen Orthophosphate Tricalcium Orthophosphate Tricalcium Orthophosphate Monos Amonium dihydrogen orthophosphate Diam Magnesium hydrogen orthophosphate Trimagnesium orthophosphate Trimagnesium orthophosphate Trimagnesium orthophosphate Tetrasodium diphosphate Tetrasodium diphosphate Tetrasodium diphosphate Tetrapotassium diphosphate	singly or in combination,
339(ii) 339(iii) 340(i) 340(ii) 340(iii) 341(ii) 341(iii) 342(i) 342(ii) 343(iii) 343(iii) 450(i) 450(v) 450(vi)	Mones Sodium dihydrogen Orthophosphate Disodium hydrogen Orthophosphate Trisodium Orthophosphate Monop Potassium dihydrogen Orthophosphate Dipotassium hydrogen Orthophosphate Tripotassium Orthophosphate Monocalcium dihydrogen Orthophosphate Monocalcium hydrogen Orthophosphate Die Calcium hydrogen Orthophosphate Tricalcium Orthophosphate Monoa Ammonium dihydrogen orthophosphate Diammonium hydrogen orthophosphate Diammonium hydrogen orthophosphate Trimagnesium orthophosphate Trimagnesium orthophosphate Tetrasodium diphosphate Tetrasodium diphosphate Tetrapotassium diphosphate Dicalcium diphosphate	singly or in combination,
339(ii) 339(iii) 340(i) 340(ii) 340(iii) 341(ii) 341(iii) 342(i) 342(ii) 343(iii) 343(iii) 450(i) 450(v) 451(i)	Monos Sodium dihydrogen Orthophosphate Disodium hydrogen Orthophosphate Trisodium Orthophosphate Monos Potassium dihydrogen Orthophosphate Dipotassium hydrogen Orthophosphate Tripotassium Orthophosphate Monocalcium dihydrogen Orthophosphate Monocalcium hydrogen Orthophosphate Die Calcium hydrogen Orthophosphate Tricalcium Orthophosphate Monos Ammonium dihydrogen orthophosphate Diammonium hydrogen orthophosphate Diammonium hydrogen orthophosphate Trimagnesium hydrogen orthophosphate Trimagnesium orthophosphate Tetrasodium diphosphate Tetrasodium diphosphate Tetrasodium diphosphate Tetrapotassium diphosphate Dicalcium diphosphate Pentasodium triphosphate	singly or in combination,
339(ii) 339(iii) 340(i) 340(ii) 340(iii) 341(ii) 341(iii) 342(i) 342(ii) 343(iii) 450(i) 450(v) 451(ii) 451(ii)	Monos Sodium dihydrogen Orthophosphate Disodium hydrogen Orthophosphate Trisodium Orthophosphate Monos Potassium dihydrogen Orthophosphate Dipotassium hydrogen Orthophosphate Tripotassium Orthophosphate Monocalcium dihydrogen Orthophosphate Monocalcium hydrogen Orthophosphate Die Calcium hydrogen Orthophosphate Tricalcium Orthophosphate Monos Ammonium dihydrogen orthophosphate Diammonium hydrogen orthophosphate Diammonium hydrogen orthophosphate Trimagnesium hydrogen orthophosphate Trimagnesium orthophosphate Tetrasodium diphosphate Tetrasodium diphosphate Tetrasodium diphosphate Tetrapotassium diphosphate Dicalcium diphosphate Pentasodium triphosphate Pentasodium triphosphate	singly or in combination,
339(ii) 339(iii) 340(i) 340(ii) 340(iii) 341(ii) 341(iii) 342(ii) 342(ii) 343(iii) 450(i) 450(vi) 451(ii) 452(i)	Monos Sodium dihydrogen Orthophosphate Disodium hydrogen Orthophosphate Trisodium Orthophosphate Monos Potassium dihydrogen Orthophosphate Dipotassium hydrogen Orthophosphate Tripotassium Orthophosphate Monocalcium dihydrogen Orthophosphate Monocalcium hydrogen Orthophosphate Die Calcium hydrogen Orthophosphate Tricalcium Orthophosphate Monos Ammonium dihydrogen orthophosphate Diammonium hydrogen orthophosphate Diammonium hydrogen orthophosphate Trimagnesium hydrogen orthophosphate Trimagnesium orthophosphate Tetrasodium diphosphate Tetrasodium diphosphate Tetrapotassium diphosphate Tetrapotassium diphosphate Pentasodium triphosphate Pentasodium triphosphate Pentapotassium triphosphate Sodium polyphosphate	singly or in combination,
339(ii) 339(iii) 340(i) 340(ii) 340(iii) 341(ii) 341(iii) 342(ii) 342(ii) 343(iii) 450(i) 450(vi) 451(ii) 452(i) 452(ii)	MonesSodium dihydrogen Orthophosphate Disodium hydrogen Orthophosphate Trisodium Orthophosphate MonepPotassium dihydrogen Orthophosphate Dipotassium hydrogen Orthophosphate Tripotassium Orthophosphate Monocalcium dihydrogen Orthophosphate Monocalcium hydrogen Orthophosphate DieCalcium Orthophosphate Tricalcium Orthophosphate Tricalcium Orthophosphate MonocAmmonium dihydrogen orthophosphate Diammonium hydrogen orthophosphate Diammonium hydrogen orthophosphate Trimagnesium orthophosphate Trimagnesium orthophosphate Tetrasodium diphosphate Tetrasodium diphosphate Tetrapotassium diphosphate Tetrapotassium diphosphate Pentasodium triphosphate Pentasodium triphosphate Pentasodium polyphosphate Potassium polyphosphate Potassium polyphosphate	singly or in combination,
339(ii) 339(iii) 340(i) 340(ii) 340(iii) 341(ii) 341(iii) 342(ii) 342(ii) 343(iii) 450(i) 450(vi) 451(ii) 452(i)	Monos Sodium dihydrogen Orthophosphate Disodium hydrogen Orthophosphate Trisodium Orthophosphate Monos Potassium dihydrogen Orthophosphate Dipotassium hydrogen Orthophosphate Tripotassium Orthophosphate Monocalcium dihydrogen Orthophosphate Monocalcium hydrogen Orthophosphate Die Calcium hydrogen Orthophosphate Tricalcium Orthophosphate Monos Ammonium dihydrogen orthophosphate Diammonium hydrogen orthophosphate Diammonium hydrogen orthophosphate Trimagnesium hydrogen orthophosphate Trimagnesium orthophosphate Tetrasodium diphosphate Tetrasodium diphosphate Tetrapotassium diphosphate Tetrapotassium diphosphate Pentasodium triphosphate Pentasodium triphosphate Pentapotassium triphosphate Sodium polyphosphate	singly or in combination,

INS No.	Name of Additive	Maximum Level
401	Name of Additive Sodium alginate	Limited by GMP
	e	<u> </u>
402	Potassium alginate	Limited by GMP
403	Ammonium alginate	Limited by GMP
404	Calcium alginate	Limited by GMP
405	Propylene glycol alginate	5000 mg/kg
406	Agar	Limited by GMP
407	Carrageenan and its Na, K, NH ₄ , Ca and Mg salts (includes Furcelleran)	Limited by GMP
407a	Processed Euchema seaweed (PES)	Limited by GMP
410	Carob bean gum	Limited by GMP
412	Guar gum	Limited by GMP
413	Tragacanth gum	Limited by GMP
415	Xanthan gum	Limited by GMP
416	Karaya gum	Limited by GMP
417	Tara gum	Limited by GMP
418	Gellan gum	Limited by GMP
466	Sodium carboxymethyl cellulose (cellulose gum)	Limited by GMP
	: (Modified Starches)	Ellilited by Givii
		Limited by CMD
1400	Dextrins, roasted starch	Limited by GMP
1401	Acid-treated starch	Limited by GMP
1402	Alkaline treated starch	Limited by GMP
1403	Bleached starch	Limited by GMP
1404	Oxidized starch	Limited by GMP
1405	Starches, enzyme-treated	Limited by GMP
1410	Monostarch phosphate	Limited by GMP
1412	Distarch phosphate	Limited by GMP
1413	Phosphated distarch phosphate	Limited by GMP
1414	Acetylated distarch phosphate	Limited by GMP
1420	Starch Acetate	Limited by GMP
1422	Acetylated distarch adipate	Limited by GMP
1440	Hydroxypropyl starch	Limited by GMP
1442	Hydroxypropyl distarch phosphate	Limited by GMP
Emulsifier		Emilion by Givin
322	Lecithins	Limited by GMP
	Salt of myristic, palmitic and stearic acids with	•
470(i)	ammonia, calcium, potassium and sodium	Limited by GMP
470(ii)	Salt of oleic acid with calcium, potassium and sodium	Limited by GMP
471	Mono- and di- G glycerides of fatty acids	Limited by GMP
472a	Acetic and fatty acid esters of ⊕g lycerol	Limited by GMP
472b	Lactic and fatty acid esters of G glycerol	Limited by GMP
472c	Citric and fatty acid esters of G glycerol	Limited by GMP
472e	Diacetyltartaric and fatty acid esters of glycerol	10000 mg/kg
Antioxida		
300	Ascorbic acid (L-)	Limited by GMP
301	Sodium ascorbate	Limited by GMP
302	Calcium ascorbate	Limited by GMP
304	Ascorbyl palmitate	500 mg/kg
305	Ascorbyl stearate	singly or in combination as ascorbyl stearate
307b	Mixed tTocopherols concentrate, mixed	200 mg/kg
	1	
307c	dl-alpha-Tocopherol, dl-alpha-	singly or in combination
Colours		
160a(i)	beta-Carotenes. beta- (synthetic)	
160a(iii)	beta-Carotenes, beta- (Blakeslea triaspora trispora)	35 mg/kg
160e	beta-apo-8-Carotenal, beta-apo-8'-	singly or in combination
160f	beta apo-8'-Carotenoic acid, methyl or ethyl ester, beta apo-8'-	
160a(ii)	betal-Carotenes, beta- (vegetable)	600 mg/kg
171	Titanium dioxide	Limited by GMP
160b(ii)	Annatto extracts, norbixin-based	25 mg/kg
Foaming A		
290	Carbon dioxide	Limited by GMP
941	Nitrogen	Limited by GMP

STANDARD FOR CAMEMBERT (CODEX STAN 276-1973)

INS No.	Name of Additive	Maximum Level
Colours		
160a(i)	beta-Carotenes, beta- (synthetic)	
160a(iii)	beta- <u>C</u> arotene <u>s, beta-</u> (Blakeslea triaspora trispora)	35 mg/kg
160e	beta-apo-8'-Carotenal, beta-apo-8'-	Singly or in combination
160f	beta-apo-8'-Carotenoic acid, methyl or ethyl ester, beta-	
1001	apo-8'-	
160a(ii)	<i>beta-</i> Carotenes, <i>beta-</i> (vegetable)	600 mg/kg
160b(ii)	Annatto extracts, norbixin-based 25 mg/kg	
Acidity Re	Acidity Regulators	
575	Glucono delta-lactone	Limited by GMP

STANDARD FOR BRIE (CODEX STAN 277-1973)

INS No.	. Name of Additive Maximum Level	
Colours		
160a(i)	beta-Carotenes, beta- (synthetic)	
160a(iii)	beta- <u>C</u> arotene <u>s</u> beta- (Blakeslea triaspora trispora)	35 mg/kg
160e	beta-apo-8'-Carotenal, beta-apo-8'-	Singly or in combination
160f	beta apo 8' Carotenoic acid, methyl or ethyl ester, beta-	
1001	apo-8'-	
160a(ii)	beta-Carotenes, beta-(vegetable)	600 mg/kg
160b(ii)	Annatto extracts, norbixin-based	25 mg/kg
Acidity Ro	egulators	
575	Glucono delta-lactone	Limited by GMP

STANDARD FOR EVAPORATED MILKS (CODEX STAN 281-1971)

INS No.	Name	Maximum Level
Firming agents		
508	Potassium chloride	2000 mg /kg singly or 3 000 m g/kg in combination,
509	Calcium chloride	expressed as anhydrous substances
Stabilizers	3	
331	Sodium citrates	2000 mg/kg singly or 3000 mg/kg in combination,
332	Potassium citrates	expressed as anhydrous substances
333	Calcium citrates	
Acidity Ro	egulators	
170	Calcium carbonates	
339	Sodium phosphates	
340	Potassium phosphates	
341	Calcium phosphates	2000 mg/kg singly or 3000 mg/kg in combination,
450	Diphosphates	expressed as anhydrous substances
451	Triphosphates	
452	Polyphosphates	
500	Sodium carbonates	
501	Potassium carbonates	
Thickener	e.	
407	Carrageenan	150 mg/kg
Emulsifier	•	
322	Lecithins	Limited by GMP

STANDARD FOR SWEETENED CONDENSED MILKS (CODEX STAN 282-1971)

INS No.	Name	Maximum Level	
Firming a	Firming agents		
508	Potassium chloride	2000 mg/kg singly or 3000 mg/kg in combination ,	
509	Calcium chloride	expressed as anhydrous substances	
Stabilizers	3		
331	Sodium citrates	2000 mg/kg singly or 3000 mg/kg in combination,	
332	Potassium citrates	expressed as anhydrous substances	
333	Calcium citrates	, ,	
Acidity Ro	egulators		
170	Calcium carbonates	2000 mg/kg singly or 3000 mg/kg in combination ,	
339	Sodium phosphates	expressed as anhydrous substances	
340	Potassium phosphates		

341	Calcium phosphates	
450	Diphosphates	
451	Triphosphates	
452	Polyphosphates	
500	Sodium carbonates	
501	Potassium carbonates	
Thickener		
407	Carrageenan	150 mg/kg
Emulsifier	•	
322	Lecithins	Limited by GMP

STANDARD FOR CHEESE (CODEX STAN 283-1978)

Color Curcumins	INS No.	Name Maximum Level			
101	Colours				
101	100	Curcumins	(for edible cheese rind)	Limited by GMP	
140	101	Riboflavins	,		
All Chlorophylls Chlorophylls Chlorophylls Chlorophylls and chlorophyllins Collorophylls Carotenes, beta- (synthetic) Carotenes, beta- (synthetic) Carotenes, beta- (synthetic) Collorophylls Carotenes, beta- (synthetic) Carotenes, beta- (synthetic) Collorophylls Carotenes, beta- (synthetic) Calorophylls Carotenes, beta- (synthetic) Carotene	120	Carmines	(for red marbled cheeses only)	Limited by GMP	
160a(i)	140	Chlorophylls		Limited by GMP	
160a(ii) Carotenes_beta_ (vegetable) 600 mg/kg 160b(ii) Annatio extracts, norbixin-based 50 mg/kg 160c Paprika oleoresins Limited by GMP 160c Paprika oleoresins Limited by GMP 160c Paprika oleoresins 35 mg/kg 160f Paprika oleoresins 35 mg/kg 160f Paprika oleoresins Paprika oleoresins 160f Paprika oleore	141			15 mg/kg	
160a(ii) Carotenes_beta_ (vegetable) 600 mg/kg 160b(ii) Annatio extracts, norbixin-based 50 mg/kg 160c Paprika oleoresins Limited by GMP 160c Paprika oleoresins Limited by GMP 160c Paprika oleoresins 35 mg/kg 160f Paprika oleoresins 35 mg/kg 160f Paprika oleoresins Paprika oleoresins 160f Paprika oleore	160a(i)	beta-Carotenes, beta- (synthetic)		25 mg/kg	
Limited by GMP Series app St Carotenal, beta-apo-8 to series app St Carotenal, beta-apo-8 to series app St Carotenal, beta-apo-8 to series app St Carotenoic acid, series app St Carotenoic acid seri	160a(ii)				
160e	160b(ii)	Annatto extracts, norbixin-based		50 mg/kg	
160f		Paprika oleoresin s		Limited by GMP	
Sign	160e			35 mg/kg	
Titanium dioxide	160f			35 mg/kg	
Acidity regulators 170 Calcium carbonates Limited by GMP	162				
Limited by GMP	171	Titanium dioxide		Limited by GMP	
Limited by GMP	Acidity rea				
Soft Mignestant Carbonales Soft Soft					
Preservatives 200 Sorbic acid 3000 mg/kg calculated as sorbic acid 201 Sodium sorbate 3000 mg/kg calculated as sorbic acid 202 Potassium sorbate 12.5 mg/kg 234 Nisin 12.5 mg/kg 239 Hexamethylene tetramine (Provolone only) 25 mg/kg, expressed as formaldehyde 251 Sodium nitrate 50 mg/kg, expressed as NaNO₃ 280 Propionic acid 3000 mg/kg, calculated as propionic acid 281 Sodium propionate 3000 mg/kg, calculated as propionic acid 282 Calcium propionate Limited by GMP For surface/rind treatment only: 200 Sorbic acid 1000 m /kg singly or in combination, calculated as sorbic acid 202 Potassium sorbate calculated as sorbic acid 2 mg/dm² of surface. Not present in a depth of 5 mm² 235 Pimaricin (natamycin) (Pimaricin) Natamycin (Pimaricin) 2 mg/dm² of surface. Not present in a depth of 5 mm²		Magnesium carbonates Limited by GMP		Limited by GMP	
Sorbic acid Sodium sorbate 3000 mg/kg calculated as sorbic acid	575				
Sodium sorbate 3000 mg/kg calculated as sorbic acid	Preservati				
Potassium sorbate 203					
202 Potassium sorbate 203 Calcium sorbate 234 Nisin 239 Hexamethylene tetramine (Provolone only) 251 Sodium nitrate 252 Potassium nitrate 253 Propionic acid 280 Propionic acid 281 Sodium propionate 282 Calcium propionate 283 Calcium propionate 284 Limited by GMP For surface/rind treatment only: 200 Sorbic acid 201 Potassium sorbate 202 Potassium sorbate 203 Calcium sorbate 204 Pimaricin (natamycin) Natamycin (Pimaricin) 25 Potassium sorbate 26 Pimaricin (natamycin) Natamycin (Pimaricin) 26 Potassium sorbate 27 Potassium sorbate 28 Pimaricin (natamycin) Natamycin (Pimaricin) 28 Potassium sorbate 29 Pimaricin (natamycin) Natamycin of 5 mm²				3000 mg/kg calculated as sorbic acid	
234 Nisin 12.5 mg/kg 239		Potassium sorbate			
Hexamethylene tetramine Provolone only 25 mg/kg, expressed as formaldehyde					
251 Sodium nitrate 252 Potassium nitrate 280 Propionic acid 281 Sodium propionate 282 Calcium propionate 1105 Lysozyme 1105 Lysozyme 1200 Sorbic acid 202 Potassium sorbate 203 Calcium sorbate 204 Calcium sorbate 205 Calcium sorbate 206 Pimaricin (natamycin) Natamycin (Pimaricin) Miscellaneous additive 50 mg/kg, expressed as NaNO ₃ 3000 mg/kg, calculated as propionic acid 1000 mg/kg, calculated as propionic acid 202 Potassium sorbate 203 Calcium sorbate 205 Calcium sorbate 206 Sorbic acid 207 Potassium sorbate 208 Pimaricin (natamycin) Natamycin (Pimaricin) 209 Miscellaneous additive	-				
252 Potassium nitrate 280 Propionic acid 281 Sodium propionate 282 Calcium propionate 1105 Lysozyme 1105 Lysozyme 1200 Sorbic acid 202 Potassium sorbate 203 Calcium sorbate 204 Calcium sorbate 205 Pimaricin (natamycin) Natamycin (Pimaricin) Miscellaneous additive 50 mg/kg, expressed as NaNO ₃ 3000 mg/kg, calculated as propionic acid 1000 mg/kg, calculated as propionic acid 200 mg/kg, calculated as propionic acid			(Provolone only)	25 mg/kg, expressed as formaldehyde	
Potassium nitrate 280 Propionic acid 3000 mg/kg, calculated as propionic acid 281 Sodium propionate 282 Calcium propionate Limited by GMP				50 mg/kg_eynressed as NaNO.	
281 Sodium propionate 282 Calcium propionate 1105 Lysozyme Limited by GMP For surface/rind treatment only: 200 Sorbic acid 202 Potassium sorbate 203 Calcium sorbate 204 Pimaricin (natamycin) Natamycin (Pimaricin) Miscellaneous additive 3000 mg/kg, calculated as propionic acid 1000 m/kg singly or in combination, calculated as sorbic acid 2 mg/dm² of surface. Not present in a depth of 5 mm²				50 mg kg, expressed as rearrog	
282 Calcium propionate 1105 Lysozyme Limited by GMP For surface/rind treatment only: 200 Sorbic acid 202 Potassium sorbate 203 Calcium sorbate 205 Pimaricin (natamycin) Natamycin (Pimaricin) Miscellaneous additive Limited by GMP Limited by GMP 1000 m /kg singly or in combination, calculated as sorbic acid 2 mg/dm² of surface. Not present in a depth of 5 mm²				2000	
Limited by GMP For surface/rind treatment only: 200 Sorbic acid 1000 m /kg singly or in combination, calculated as sorbic acid 202 Potassium sorbate 203 Calcium sorbate Pimaricin (natamycin) Natamycin (Pimaricin) Natamycin of 5 mm ² Miscellaneous additive Limited by GMP Initiated by GMP 1000 m /kg singly or in combination, calculated as sorbic acid 2000 m /kg singly or in combination, calculated as sorbic acid 2 mg/dm² of surface. Not present in a depth of 5 mm² 2 mg/dm² of surface.				3000 mg/kg, calculated as propionic acid	
For surface/rind treatment only: 200 Sorbic acid 202 Potassium sorbate 203 Calcium sorbate 235 Pimaricin (natamycin) Natamycin (Pimaricin) Miscellaneous additive 1000 m /kg singly or in combination, calculated as sorbic acid 2 mg/dm² of surface. Not present in a depth of 5 mm²					
200 Sorbic acid 202 Potassium sorbate 203 Calcium sorbate 235 Pimaricin (natamycin) (Pimaricin) Miscellaneous additive 1000 m /kg singly or in combination, calculated as sorbic acid 2 mg/dm² of surface. Not present in a depth of 5 mm²				Limited by GMP	
202 Potassium sorbate 203 Calcium sorbate 235 Pimaricin (natamycin) Natamycin (Pimaricin) Miscellaneous additive 1000 m /kg singly or in combination, calculated as sorbic acid 2 mg/dm² of surface. Not present in a depth of 5 mm²					
203 Calcium sorbate 203 Calcium sorbate 235 Pimaricin (natamycin) Natamvcin (Pimaricin) Miscellaneous additive calculated as sorbic acid 2 mg/dm² of surface. Not present in a depth of 5 mm²				1000 m /kg singly or in combination	
203 Calcium sorbate 235 Pimaricin (natamycin) Natamvcin (Pimaricin) Miscellaneous additive 2 mg/dm² of surface. Not present in a depth of 5 mm²					
(Pimaricin) of 5 mm ² Miscellaneous additive	203				
		(Pimaricin)		2 mg/dm ² of surface. Not present in a depth of 5 mm ²	
508 Potassium chloride Limited by GMP	Miscellane				
				Limited by GMP	

Sliced, cut, shredded or grated cheese

INS No.	Name	Maximum Level
Anti-caking agents		
460	Cellulose <u>s</u>	Limited by GMP
551	Silicon dioxide, amorphous	10,000 mg /kg singly or in combination.
552	Calcium silicate	Silicates calculated as silicon dioxide
553	Magnesium silicates	
554	Sodium aluminosilicate	
555	Potassium aluminosilicate	

INS No.	Name	Maximum Level	
	aluminium silicate		
556	Calcium aluminium silicate		
559	Aluminium silicate		
560	Potassium silicate		
Preservati	Preservatives		
200	Sorbic acid	1000 mg/kg gingly or in combination	
202	Potassium sorbate	1000 mg/kg singly or in combination, calculated as sorbic acid	
203	Calcium sorbate	calculated as sorble acid	

STANDARD FOR CREAM AND PREPARED CREAMS (CODEX STAN 288-1976)

INS No.	Name of Additive	Maximum Level
Acidity Reg	gulators	-
270	Lactic acid (L-, D-, and DL-)	GMP
325	Sodium lactate	GMP
326	Potassium lactate	GMP
327	Calcium lactate	GMP
330	Citric acid	GMP
333	Calcium citrates	GMP
500(i)	Sodium carbonate	GMP
500(ii)	Sodium hydrogen carbonate	GMP
500(iii)	Sodium sesquicarbonate	GMP
501(i)	Potassium carbonate	GMP
501(ii)	Potassium hydrogen carbonate	GMP
Stabilizers :	and Thickeners	•
170(i)	Calcium carbonate	GMP
331(i)	Sodium dihydrogen citrate	GMP
331(iii)	Trisodium citrate	GMP
332(i)	Potassium dihydrogen citrate	GMP
332(ii)	Tripotassium citrate	GMP
516	Calcium sulfate sulphate	GMP
339(i)	Mono Sodium ortho dihydrogen phosphate	
339(ii)	Disodium ortho <u>hydrogen</u> phosphate	
339(iii)	Trisodium erthe phosphate	
340(i)	Mone Potassium dihydrogen erthe phosphate	
340(ii)	Dipotassium ortho hydrogen phosphate	
340(iii)	Tripotassium ortho phosphate	
341(i)	Monocalcium ortho divdrogen phosphate	
341(ii)	Die Calcium erthe hydrogen phosphate	
341(iii)	Tricalcium erthe phosphate	
450(i)	Disodium diphosphate	
450(ii)	Trisodium diphosphate	1100 mg/kg expressed
450(iii)	Tetrasodium diphosphate	as phosphorus
450(v)	Tetrapotassium diphosphate	r r
450(vi)	Dicalcium diphosphate	
450(vii)	Calcium dihydrogen diphosphate	
451(i)	Pentasodium triphosphate	
451(ii)	Pentapotassium triphosphate	
452(i)	Sodium polyphosphate	
452(ii)	Potassium polyphosphate	
452(iii)	Sodium calcium polyphosphate	
452(iv)	Calcium polyphosphate	
452(v)	Ammonium polyphosphate	
400	Alginic acid	GMP
401	Sodium alginate	GMP
402	Potassium alginate	GMP
403	Ammonium alginate	GMP
404	Calcium alginate	GMP
405	Propylene glycol alginate	5000 mg/kg
406	Agar	GMP
407	Carrageenan and its Na, K, NH₄ salts	GMP
407a	Processed eucheuma seaweed (PES)	GMP
410	Carob bean gum	GMP
412	Guar gum	GMP
412 414	Gum arabic (Acacia gum)	GMP
114	Guin arabic (Acacia guin)	GIVIF

INS No.	Name of Additive	Maximum Level	
415	Xanthan gum	GMP	
418	Gellan gum	GMP	
440	Pectins	GMP	
460(i)	Microcrystalline cellulose (Cellulose gel)	GMP	
460(ii)	Powdered cellulose	GMP	
461	Methyl cellulose	GMP	
463	Hydroxypropyl cellulose	GMP	
464	Hydroxypropyl methyl cellulose	GMP	
465	Methyl ethyl cellulose	GMP	
466	Sodium carboxymethyl cellulose (cellulose gum)	GMP	
508	Potassium chloride	GMP	
509	Calcium chloride	GMP	
1410	Monostarch phosphate	GMP	
1412	Distarch phosphate esterified with sodium trimetaphosphate: esterified with	CMD	
1412	phosphorus oxychloride	GMP	
1413	Phosphated distarch phosphate	GMP	
1414	Acetylated distarch phosphate	GMP	
1420	Starch acetate	GMP	
1422	Acetylated distarch adipate	GMP	
1440	Hydroxypropyl starch	GMP	
1442	Hydroxypropyl distarch phosphate	GMP	
1450	Starch sodium octenyl succinate	GMP	
Emulsifiers			
322(i)	Lecithin	GMP	
432	Polyoxyethylene (20) sorbitan monolaurate		
433	Polyoxyethylene (20) sorbitan monooleate		
434	Polyoxyethylene (20) sorbitan monopalmitate	1000 mg/kg	
435	Polyoxyethylene (20) sorbitan monostearate		
436	Polyoxyethylene (20) sorbitan tristearate		
471	Mono- and di- glycerides of fatty acids	GMP	
472a	Acetic and fatty acid esters of glycerol	GMP	
472b	Lactic and fatty acid esters of glycerol	GMP	
472c	Citric and fatty acid esters of glycerol	GMP	
473	Sucrose esters of fatty acids	5000 mg/kg	
475	Polyglycerol esters of fatty acids	6000 mg/kg	
491	Sorbitan monostearate		
492	Sorbitan tristearate		
493	Sorbitan monolaurate	5000 mg/kg	
494	Sorbitan monooleate		
495	Sorbitan monopalmitate		
Packaging (
290	Carbon dioxide	GMP	
941	Nitrogen	GMP	
Propellant 1	For use only in whipped creams (including creams packed under pressure)		
942	Nitrous oxide	GMP	

STANDARD FOR EDIBLE CASEIN PRODUCTS (CODEX STAN 290-1995)

INS No	Name of food additive	Maximum level	
Acidity re	Acidity regulators		
<u>170</u>	Calcium carbonates		
261(i)	Potassium acetate		
262(i)	Sodium acetate		
263	Calcium acetate		
325	Sodium lactate		
326	Potassium lactate		
327	Calcium lactate	Limited by GMP	
328	Ammonium lactate		
329	Magnesium lactate (DL-)		
<u>331</u>	Sodium citrates		
332	Potassium citrates		
333	<u>Calcium citrates</u>		
<u>345</u>	Magnesium citrate		
<u>380</u>	Triaammonium citrates		

INS No	Name of food additive	Maximum level	
339	Sodium phosphates	iviaximum ievei	
340	Potassium phosphates		
341	Calcium phosphates	4400 mg/kg singly or in combination expressed as P ₂ O ₅	
342	Ammonium phosphates	phosphorus*	
343	Magnesium phosphates		
343	<u>Wagnesium phosphates</u>	5 a/ka 2200 ma/ka singly on in combination symposed as	
<u>452</u>	<u>Polyphosphates</u>	5 g/kg 2200 mg/kg singly or in combination expressed as phoshorusP2O5 *	
<u>500</u>	Sodium carbonates		
<u>501</u>	Potassium carbonates		
<u>503</u>	Ammonium carbonates		
<u>504</u>	Magnesium carbonates		
<u>524</u>	Sodium hydroxide	Limited by GMP	
<u>525</u>	Potassium hydroxide		
<u>526</u>	Calcium hydroxide		
<u>527</u>	Ammonium hydroxide		
528	Magnesium hydroxide		
Neutralizi			
331	Sodium citrates		
332	Potassium citrates		
333	Calcium citrates	Limited by GMP	
345	Magnesium citrate		
380	Tria Ammonium citrates		
339	Sodium phosphates		
340	Potassium phosphates		
341		10 g/kg 4400 mg/kg singly or in combination expressed as	
	Calcium phosphates	P ₂ O ₅ phosphorus*	
342	Ammonium phosphates		
343	Magnesium phosphates		
170	Calcium carbonates		
500	Sodium carbonates		
501	Potassium carbonates		
503	Ammonium carbonates		
504	Magnesium carbonates	Limited by GMP	
524	Sodium hydroxide		
525	Potassium hydroxide		
526	Calcium hydroxide		
527	Ammonium hydroxide		
528	Magnesium hydroxide		
Emulsifier	· ·	'	
322	Lecithins		
471	Mono- and di-glycerides of fatty acids	Limited by GMP	
Bulking a		I	
325	Sodium lactate	Limited by GMP	
		Lilling by Givif	
Anti-cakii			
170(i)	Calcium carbonate		
341(iii)	Tricalcium ortho phosphate		
343(iii)	Trimagnesium ortho phosphate		
460	Cellulose <u>s</u>		
504(i)	Magnesium carbonate		
530	Magnesium oxide	10 -/- 4400/	
551	Silicon dioxide, amorphous 10 g/kg 4400 mg/kg or in combination *		
552	Calcium silicate		
553	Magnesium silicates		
554	Sodium aluminosilicate		
556	Calcium aluminium silicate		
559	Aluminium silicate		
1442	Hydroxypropyl dist <u>a</u> rch phosphate		
	11) at only propyr atomion phosphate		

^{*} Total amount of P₂O₅ **phosphorus** shall not exceed 10 g/kg 4400 mg/kg