

codex alimentarius commission E



FOOD AND AGRICULTURE
ORGANIZATION
OF THE UNITED NATIONS

WORLD
HEALTH
ORGANIZATION



JOINT OFFICE: Viale delle Terme di Caracalla 00153 ROME Tel: 39 06 57051 www.codexalimentarius.net Email: codex@fao.org Facsimile: 39 06 5705 4593

Agenda Item 5

CX/MMP 08/8/7
August 2007

JOINT FAO/WHO FOOD STANDARDS PROGRAMME CODEX COMMITTEE ON MILK AND MILK PRODUCTS

Eighth Session
Queenstown, New Zealand, 4-8 February 2008

ADDITIVE LISTINGS FOR THE CODEX STANDARD FOR FERMENTED MILKS (FLAVOURED FERMENTED MILKS)

(Prepared by the United States of America)

Governments and international organizations wishing to submit comments on the Specific Food Additives Listing for the Codex Standard for Fermented Milk Products are invited to do so **no later than 30 October 2007** to: Codex Committee on Milk and Milk Products, New Zealand Food Safety Authority, 68 - 86 Jervois Quay, P.O. Box 2835, Wellington, New Zealand (Facsimile: +64 4 8942530 or E-mail: Audrey.Taulalo@nzfsa.govt.nz), with a copy to the Secretary, Codex Alimentarius Commission, Joint FAO/WHO Food Standards Programme, Viale delle Terme di Caracalla, 00153 Rome, Italy (Fax No + 39 06 57054593; E-mail: codex@fao.org).

INTRODUCTION

1. The 7th Session of the Codex Committee on Milk and Milk Products (CCMMP) agreed that the United States would revise the food additive provisions (of the flavoured fermented milks), as contained in CX/MMP 06/7/10 on the basis of the written comments,¹ for circulation, comments and consideration by the next Session of the Committee. It further agreed that the revised list of food additive provisions should explicitly list each food additive within a food additive functional class (i.e. stabilizer, thickener); should be consistent with the food additive provisions in the plain fermented milk categories; and should clearly identify the food additives that are currently adopted in Table 3 of the *Codex General Standard for Food Additives* (GSFA).
2. The 7th CCMMP also agreed to forward to the Codex Committee on Food Additives and Contaminants (CCFAC), the lists of food additive provisions for fermented milks (plain) and heat-treated fermented milks (plain) for endorsement.²
3. The 38th CCFAC endorsed all the food additive provisions (see Annex I) and reassigned all food additives forwarded for use as “acids” to the category “acidity regulators”. In addition, the 38th CCFAC requested CCMMP to consider whether microcrystalline cellulose (INS 460i) and powdered cellulose (INS 460ii) should also be listed as acceptable stabilizers and thickeners for use in these two categories of fermented milks.³

¹ CX/MMP 06/7/10 Add. 1 (Comments from: Argentina, Australia, Japan, Lithuania, New Zealand and International Dairy Federation); CX/MMP 06/7/10 Add. 2 (Comments from: Colombia, European Community, India, Kenya, Thailand and United States of America); CRD 6 (Comments from: Kenya and India) and CRD 11 (Comments from: European Community).

² ALINORM 06/29/11, paras 147-150.

³ ALINORM 06/29/12, para. 45 and Appendix IV.

4. The 30th Codex Alimentarius Commission (CAC) amended the food additives sub-section of the “Format for Codex Commodity Standards” section of the Procedural Manual.⁴ The Commission also amended the food additives sub-section of “Relations between Commodity Committees and General Committees” section⁵. Accordingly, commodity committees should examine the General Standard for Food Additives with a view toward incorporating a reference to the General Standard. For information purposes, Annex II contains a list of food additives by functional classes that have been adopted by the Commission in Table 3 of the GSFA for use in foods generally, including the two categories of flavoured fermented milks. The Committee may wish to consider the information in Annex II and elaborate a cross-reference to the GSFA, for consistency with the Codex rules and procedures, rather than establishing lists of additives and their maximum use levels in the Codex Standard for Fermented Milks.

5. The following introductory text is contained in the food additive section of the Codex Standard for Fermented Milks (CODEX STAN 243-2003).

“4 Food Additives

Only those additive classes indicated in the table below may be used in the product categories specified. Within each additive class, and where permitted according to the table, only those individual additives listed may be used and only within the limits specified.

In accordance with Section 4.1 of the Preamble to the General Standard for Food Additives (CODEX STAN 192-1995), additional additives may be present in the flavoured fermented milks as a result of carry-over from non-dairy ingredients.

Additive Functional Class	Fermented Milks		Fermented Milks Heat-Treated After Fermentation	
	Plain	Flavoured	Plain	Flavoured
Acidity Regulators	-	X	X	X
Acids	-	X	X	X
Colours	-	X	-	X
Emulsifiers	-	X	-	X
Flavour Enhancers	-	X	-	X
Packing Gases	-	X	X	X
Preservatives	-	-	-	X
Stabilizers	X ¹	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.”

1. Only those additives that have been evaluated by the Joint FAO/WHO Expert Committee on Food Additives (JECFA) and assigned an INS number by the Codex Alimentarius Commission have been considered for inclusion in this standard.

FERMENTED MILKS

Recommendation 1

2. The CCMMP should agree on the inclusion of microcrystalline cellulose (INS 460(i)) and powdered cellulose (INS 460(ii)) in the list of acceptable stabilizers and thickeners for fermented milks with limitations of good manufacturing practice (GMP). Annex I contains a complete list of all stabilizers and thickeners endorsed by the 38th CCFAC for use in fermented milks.

⁴ ALINORM 07/30/REP para. 29 and Appendix III.

⁵ ALINORM 07/30/REP para. 38 and Appendix III.

HEAT-TREATED FERMENTED MILKS**Recommendation 2**

3. The CCMMP should agree on the inclusion of microcrystalline cellulose (INS 460(i)) and powdered cellulose (INS 460(ii)) in the list of acceptable stabilizers and thickeners for heat-treated fermented milks with limitations of GMP. Annex I contains a complete list of all acidity regulators, packing gases, stabilizers and thickeners endorsed by the 38th CCFAC for use in heat-treated fermented milks.

FERMENTED MILKS (FLAVOURED)

4. Recommendation 3 (below) contains a table of proposed food additives and their acceptable maximum use level for use in flavoured fermented milks. The table contains information on whether the food additive has been adopted by the CAC in Table 3 of the GSFA, and in some cases requests additional information that the CCMMP needs to reach a consensus decision. If the additional information is not provided to the 8th Session of the CCMMP, the Committee may wish to discontinue further consideration of these food additives.

5. It is noted that the table below does not contain any listing of colors, emulsifiers or flavour enhancers, all of which the CCMMP has previously identified as food additive functional classes that are justified for use in flavoured fermented milks (see paragraph 5). The Committee may wish to consider including the colors, emulsifiers and flavour enhancers listed as acceptable for use in heat-treated, flavoured fermented milks.

Recommendation 3

6. The CCMMP should agree on the following food additives for use in flavoured fermented milks.

Fermented Milks (Flavoured)				
INS #	Substance	ML	GSFA Table 3⁶	Additional Information Requested
Acidity Regulators				
260	Acetic Acid, Glacial	GMP	Y	
261	Potassium Acetates	GMP	Y	
270	Lactic Acid	GMP	Y	
296	Malic Acid	GMP	Y	
297	Fumaric Acid	GMP	Y	
300	Ascorbic Acid	GMP	Y	
325	Sodium Lactate	GMP	Y	
326	Potassium Lactate	GMP	Y	
327	Calcium Lactate	GMP	Y	
330	Citric Acid	GMP	Y	
331(i)	Sodium Dihydrogen Citrate	GMP	Y	
331(iii)	Trisodium Citrate	GMP	Y	
332(i)	Potassium Dihydrogen Citrate	GMP	Y	
332(ii)	Tripotassium Citrate	GMP	Y	
334	Tartaric Acid (L+)			
335(i)	Monosodium Tartrate	2,000 mg/kg as tartaric acid		
335(ii)	Disodium Tartrate			
336(i)	Monopotassium Tartrate			
336(ii)	Dipotassium Tartrate			
337	Potassium Sodium Tartrate			
355	Adipic Acid	1500 mg/kg, as adipic acid		
356	Sodium Adipate			
357	Potassium Adipate			
359	Ammonium Adipate			
500(i)	Sodium Carbonate	GMP	Y	
500(ii)	Sodium Hydrogen Carbonate	GMP	Y	
501(i)	Potassium Carbonate	GMP	Y	
504(i)	Magnesium Carbonate	GMP	Y	
504(ii)	Magnesium Hydrogen Carbonate	GMP	Y	
507	Hydrochloric Acid	GMP	Y	
524	Sodium Hydroxide	GMP	Y	

⁶ Y = Yes indicates that the food additive is included in Table 3 of the Codex General Standard for Food Additives and has been adopted by the Codex Commission for use in foods generally, including fermented milks (flavoured).

Fermented Milks (Flavoured)				
INS #	Substance	ML	GSFA Table 3⁶	Additional Information Requested
526	Calcium Hydroxide	GMP	Y	
527	Ammonium Hydroxide	GMP	Y	
528	Magnesium Hydroxide	GMP	Y	
529	Calcium Oxide	GMP	Y	
575	Glucono Delta-Lactone	GMP	Y	
576	Sodium Gluconate	GMP	Y	
Packing Gases				
290	Carbon Dioxide	GMP	Y	
941	Nitrogen	GMP	Y	
Stabilizers and Thickeners				
170i	Calcium Carbonate	GMP	Y	
339(i)	Monosodium Orthophosphate	970 mg/kg, singly or in combination, as phosphorus		
339(ii)	Disodium Orthophosphate			
339(iii)	Trisodium Orthophosphate			
340(i)	Monopotassium Orthophosphate			
340(ii)	Dipotassium Orthophosphate			
340(iii)	Tripotassium Orthophosphate			
341(i)	Monocalcium Orthophosphate			
341(ii)	Dicalcium Orthophosphate			
341(iii)	Tricalcium Orthophosphate			
342(i)	Monoammonium Orthophosphate			
342(ii)	Diammonium Orthophosphate			
343(ii)	Dimagnesium Orthophosphate			
343(iii)	Trimagnesium Orthophosphate			
450(i)	Disodium Diphosphate			
450(iii)	Tetrasodium Diphosphate			
450(v)	Tetrapotassium Diphosphate			
450(vi)	Dicalcium Diphosphate			
451(i)	Pentasodium Triphosphate			
451(ii)	Pentapotassium Triphosphate			
452(i)	Sodium Polyphosphate			
452(ii)	Potassium Polyphosphate			
452(iv)	Calcium Polyphosphate			
452(v)	Ammonium Polyphosphate			
400	Alginate	GMP, Singly or in combination	Y	
401	Sodium Alginate		Y	
402	Potassium Alginate		Y	
403	Ammonium Alginate		Y	
404	Calcium Alginate		Y	
406	Agar	GMP	Y	
407	Carrageenan and its Na, K, NH ₄ , Ca and Mg salts (including furcelleran)	GMP	Y	Justification for whether a numeric ML of 5000 mg/kg is necessary.
407a	Processed Eucheuma Seaweed	GMP	Y	
410	Carob Bean Gum	GMP	Y	
412	Guar Gum	GMP	Y	
413	Tragacanth Gum	GMP	Y	
414	Gum Arabic	GMP	Y	
415	Xanthan Gum	GMP	Y	
416	Karaya Gum	GMP	Y	
417	Tara Gum	GMP	Y	
418	Gellan Gum	GMP	Y	
425	Konjac Flour	GMP	Y	
440	Pectins	GMP	Y	
460(i)	Microcrystalline Cellulose⁷	GMP	Y	
460(ii)	Powdered Cellulose	GMP	Y	
461	Methyl Cellulose	GMP	Y	
463	Hydroxypropyl Cellulose	GMP	Y	
464	Hydroxypropyl Methyl Cellulose	GMP	Y	

⁷ CCMMP should consider if 460i and 460ii should be included per the recommendation of the 38th CCFAC.

Fermented Milks (Flavoured)				
INS #	Substance	ML	GSFA Table 3 ⁶	Additional Information Requested
465	Methyl Ethyl Cellulose	GMP	Y	
466	Sodium Carboxymethyl Cellulose	GMP	Y	
470	Salts of Oleic Acid (Ca, K, Na)	GMP	Y	
471	Mono- and Di- glycerides	GMP	Y	
472a	Acetic and Fatty Acid Esters of Glycerol	GMP	Y	
472b	Lactic and Fatty Acid Esters of Glycerol	GMP	Y	
472c	Citric and Fatty Acid Esters of Glycerol	GMP	Y	
508	Potassium Chloride	GMP	Y	
509	Calcium Chloride	GMP	Y	
1200	Polydextrose	GMP	Y	
1400	Dextrins, Roasted Starch	GMP	Y	
1401	Acid Treated Starch	GMP	Y	
1402	Alkaline Treated Starch	GMP	Y	
1403	Bleached Starch	GMP	Y	
1404	Oxidized Starch	GMP	Y	
1405	Enzyme Treated Starch	GMP	Y	
1410	Mono Starch Phosphate	GMP	Y	
1412	Distarch Phosphate	GMP	Y	
1413	Phosphated Distarch Phosphate	GMP	Y	
1414	Acetylated Distarch Phosphate	GMP	Y	
1420	Starch Acetate	GMP	Y	
1422	Acetylated Distarch Adipate	GMP	Y	
1440	Hydroxypropyl Starch	GMP	Y	
1442	Hydroxypropyl Distarch Phosphate	GMP	Y	
1450	Starch Sodium Octenyl Succinate	GMP	Y	
1451	Acetylated Oxidized Starch	GMP	Y	
Sweeteners⁸				
420	Sorbitol and Sorbitol Syrup	GMP	Y	
950	Acesulfame Potassium	1,000 mg/kg ⁹		Justification for this ML and why 500 mg/kg is not adequate.
951	Aspartame	3,000 mg/kg ¹⁰		Justification for this ML and why an ML of 600 mg/kg or 1000 mg/kg is not adequate.
952	Cyclamates	250 mg/kg ¹¹		
954	Saccharin	100 mg/kg ¹²		Justification for this ML, why 200 mg/kg is not adequate.
955	Sucralose	400 mg/kg ¹³		Justification for this ML, why 300 mg/kg is not adequate.
956	Alitame	100 mg/kg ¹⁴		
961	Neotame	GMP ¹⁵		Proposal for a numeric ML.
962	Aspartame-Acesulfame	1,100 mg/kg		
966	Lactitol	GMP	Y	

⁸ The use of sweeteners is limited to milk-and milk derivative-based drinks energy reduced or with no added sugar.

⁹ The 30th CAC adopted an ML of 350 mg/kg in GSFA food category 01.7 (Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt) with no limitation on whether the food is energy reduced or contains no added sugar.

¹⁰ The 30th CAC adopted an ML of 1000 mg/kg in GSFA food category 01.7 (Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt) with no limitation on whether the food is energy reduced or contains no added sugar.

¹¹ The 30th CAC adopted an ML of 250 mg/kg in GSFA food category 01.7 (Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt) with no limitation on whether the food is energy reduced or contains no added sugar.

¹² The 30th CAC adopted an ML of 100 mg/kg in GSFA food category 01.7 (Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt) with no limitation on whether the food is energy reduced or contains no added sugar.

¹³ The 30th CAC adopted an ML of 400 mg/kg in GSFA food category 01.7 (Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt) with no limitation on whether the food is energy reduced or contains no added sugar.

¹⁴ The 30th CAC adopted an ML of 100 mg/kg in GSFA food category 01.7 (Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt) with no limitation on whether the food is energy reduced or contains no added sugar.

¹⁵ The 30th CAC adopted an ML of 100 mg/kg in GSFA food category 01.7 (Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt). with no limitation on whether the food is energy reduced or contains no added sugar.

Recommendation 4

7. The Committee may wish to simplify this list of food additives by explicitly listing only those food additives and their maximum use levels that have not been adopted by the Codex Alimentarius Commission in Table 3 of the GSFA and replacing the “Table 3 food additives” with the following text:

8. “Acidity regulators, packing gases, stabilizers, and thickeners used in accordance with Table 3 of the General Standard for Food Additives are acceptable for use in foods conforming to flavoured fermented milks described in this standard.”

HEAT-TREATED FERMENTED MILKS (FLAVORED)

9. Recommendation 3 (below) contains a table of proposed food additives and their acceptable maximum use level for use in heat-treated, flavored fermented milks. The table contains information on whether the food additive has been adopted by the CAC in Table 3 of the GSFA, and in some cases requests additional information that the CCMMP needs to reach a consensus decision. If the requested information is not provided to the 8th Session of the CCMMP, the Committee may wish to discontinue further consideration of these food additives.

Recommendation 5

10. The CCMMP should agree on the following food additives for use in flavoured, heat-treated fermented milks.

Heat-Treated Fermented Milks (Flavoured)				
INS #	Substance	ML	GSFA Table 3¹⁶	Additional Information Requested
Acidity Regulators				
260	Acetic Acid, Glacial	GMP	Y	
261	Potassium Acetates	GMP	Y	
270	Lactic Acid (L-)	GMP	Y	
296	Malic Acid	GMP	Y	
297	Fumaric Acid	GMP	Y	
300	Ascorbic Acid	GMP	Y	
325	Sodium Lactate	GMP	Y	
326	Potassium Lactate	GMP	Y	
327	Calcium Lactate	GMP	Y	
330	Citric Acid	GMP	Y	
331i	Sodium Dihydrogen Citrate	GMP	Y	
331(iii)	Trisodium Citrate	GMP	Y	
332(i)	Potassium Dihydrogen Citrate	GMP	Y	
332(ii)	Tripotassium Citrate	GMP	Y	
334	Tartaric Acid (L+)	2,000 mg/kg as tartaric acid		
335(i)	Monosodium Tartrate			
335(ii)	Disodium Tartrate			
336(i)	Monopotassium Tartrate			
336(ii)	Dipotassium Tartrate			
337	Potassium Sodium Tartrate			
355	Adipic Acid	1500 mg/kg, as adipic acid		
356	Sodium Adipate			
357	Potassium Adipate			
359	Ammonium Adipate			
500(i)	Sodium Carbonate	GMP	Y	
500(ii)	Sodium Hydrogen Carbonate	GMP	Y	
501(i)	Potassium Carbonate	GMP	Y	
504(i)	Magnesium Carbonate	GMP	Y	
504(ii)	Magnesium Hydrogen Carbonate	GMP	Y	
507	Hydrochloric Acid	GMP	Y	
524	Sodium Hydroxide	GMP	Y	
526	Calcium Hydroxide	GMP	Y	
527	Ammonium Hydroxide	GMP	Y	
528	Magnesium Hydroxide	GMP	Y	

¹⁶ Y = Yes. The inclusion of the food additive in Table 3 of the Codex General Standard for Food Additives has been adopted by the Codex Commission for use in foods generally, including heat-treated fermented milks (flavoured).

Heat-Treated Fermented Milks (Flavoured)				
INS #	Substance	ML	GSFA Table 3 ¹⁶	Additional Information Requested
529	Calcium Oxide	GMP	Y	
575	Glucono Delta-Lactone	GMP	Y	
576	Sodium Gluconate	GMP	Y	
Colours				
100i	Curcumin	100 mg/kg		Justification for a higher level at 150 mg/kg
101(i)	Riboflavin	GMP		Proposal for numeric ML ¹⁷
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		Justification for use as a colour
122	Azorubine	150 mg/kg		
124	Ponceau 4R	150 mg/kg		
127	Erythrosine	300 mg/kg		
128	Red 2G	30 mg/kg		
129	Allura Red AC	300 mg/kg		
132	Indigotine	100 mg/kg		
133	Brilliant Blue FCF	150 mg/kg		
141(i)	Chlorophylls, Copper Complexes	500 mg/kg		
141(ii)	Chlorophyllins, Copper Complexes, Na and K Salts			
143	Fast Green FCF	100 mg/kg		
150b	Caramel Class II	150 mg/kg ¹⁸		
150c	Caramel Class III	2,000 mg/kg ¹⁹		Justification for use of these colors at significantly higher MLs than for INS 150b
150d	Caramel Class IV	2,000 mg/kg ²⁰		
151	Brilliant Black PN	150 mg/kg		
155	Brown HT	150 mg/kg		
160a(i)	Beta-Carotene (Synthetic)	100 mg/kg		
160e	Beta-Apo-8'-Carotenal			
160f	Beta-Apo-8'Carotenoic Acid, Methyl or Ethyl Ester			
160a(ii)	Carotenes, Vegetable	600 mg/kg		
160b	Annatto Extracts	100 mg/kg		Clarification of the basis of the maximum use level on either bixin (160b(i)) or norbixin (160b(ii)) basis
160d	Lycopene	500 mg/kg		
161b(i)	Lutein from <i>Tagetes erecta</i>	GMP		Proposal for numeric ML ²¹
162	Beet Red	GMP	Y	
163ii	Grape Skin Extract	100 mg/kg		
172(i)	Iron Oxide, Black	GMP		Proposal for numeric ML ²²
172(ii)	Iron Oxide, Red			
172(iii)	Iron Oxide, Yellow			
Emulsifier				
322	Lecithins	GMP	Y	
432	Polyoxyethylene (20) Sorbitan	3,000 mg/kg		Justification for the use of

¹⁷ The 28th CAC adopted an acceptable maximum level of 300 mg/kg for Riboflavins (INS 101(i) and 101(ii)) in GSFA food category 01.7 (Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)).

¹⁸ The GSFA contains a proposed draft (Step 4) acceptable maximum level of 50,000 mg/kg for Caramel Colour II (INS 150b) in GSFA food category 01.7 (Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)).

¹⁹ The 23rd CAC adopted an acceptable maximum level of 2000 mg/kg for Caramel Colour III (INS 150c) in GSFA food category 01.7 (Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)).

²⁰ The 23rd CAC adopted an acceptable maximum level of 2000 mg/kg for Caramel Colour IV (INS 150d) in GSFA food category 01.7 (Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)).

²¹ The GSFA contains a proposed draft (Step 4) ML of 150 mg/kg for Lutein from *Tagetes erecta* (161b(i)) in GSFA food category 01.7 (Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)).

²² The 28th CAC adopted an acceptable maximum level of 100 mg/kg for Iron Oxides (INS 172(i-iii)) in GSFA food category 01.7 (Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)).

Heat-Treated Fermented Milks (Flavoured)				
INS #	Substance	ML	GSFA Table 3 ¹⁶	Additional Information Requested
	Monolaurate			polysorbates as emulsifiers in fermented milks.
433	Polyoxyethylene (20) Sorbitan Monooleate			
434	Polyoxyethylene (20) Sorbitan Monopalmitate			
435	Polyoxyethylene (20) Sorbitan			
436	Polyoxyethylene (20) Sorbitan			
472e	Diacyltartaric and Fatty Acid Esters of Glycerol	10,000 mg/kg		
473	Sucrose Esters of Fatty Acids	5,000 mg/kg		
474	Sucroglycerides	5,000 mg/kg		
475	Polyglycerol Esters of Fatty Acids	2,000 mg/kg		Justification for establishing an ML of 10,000 mg/kg
477	Propylene Glycol Esters Of Fatty Acids	5,000 mg/kg		
481(i)	Sodium Stearoyl Lactylate	10,000 mg/kg		
482(i)	Calcium Stearoyl Lactylate			
491	Sorbitan Monostearate	5,000 mg/kg		
492	Sorbitan Tristearate			
493	Sorbitan Monolaurate			
494	Sorbitan Monooleate			
495	Sorbitan Monopalmitate			
900a	Polydimethylsiloxane	50 mg/kg		
Flavour Enhancers				
636	Maltol	GMP		Proposal for a numeric ML ²³
637	Ethyl Maltol	GMP		Proposal for a numeric ML ²⁴
Packing Gases				
290	Carbon Dioxide	GMP	Y	
941	Nitrogen	GMP	Y	
Preservatives				
200	Sorbic Acid	1000 mg/kg as sorbic acid		
201	Sodium Sorbate			
202	Potassium Sorbate			
203	Calcium Sorbate			
210	Benzoic Acid	300 mg/kg as benzoic acid		
211	Sodium Benzoate			
212	Potassium Benzoate			
213	Calcium Benzoate			
214	Ethyl p-Hydroxybenzoate ²⁵	120 mg/kg as p-hydroxybenzoate		
218	Methyl p-Hydroxybenzoate			
220	Sulphur Dioxide	100 mg/kg		
221	Sodium Sulphite			
222	Sodium Hydrogen Sulphite			
223	Sodium Metabisulphite			
224	Potassium Metabisulphite			
225	Potassium Sulphite			
227	Calcium Hydrogen Sulphite			
228	Potassium Bisulphite			
539	Sodium Thiosulphate			
234	Nisin	500 mg/kg		
260	Acetic Acid	GMP	Y	
262(i)	Sodium Acetate	GMP	Y	

²³ The GSFA contains a draft (Step 7) ML of 200 mg/kg for Maltol (INS 636) in GSFA food category 01.7 (Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)).

²⁴ The GSFA contains a draft (Step 7) ML of 200 mg/kg for Ethyl Maltol (INS 637) in GSFA food category 01.7 (Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt)).

²⁵ Propyl p-Hydroxybenzoate (INS 216) is not included because the Joint FAO/WHO Expert Committee on Food Additives withdrew its ADI.

Heat-Treated Fermented Milks (Flavoured)				
INS #	Substance	ML	GSFA Table 3 ¹⁶	Additional Information Requested
280	Propionic Acid	GMP	Y	
281	Sodium Propionate	GMP	Y	
282	Calcium Propionate	GMP	Y	
283	Potassium Propionate	GMP	Y	
307b	Tocopherols Concentrate, Mixed	GMP		
307a	Alpha - Tocopherol	GMP		
Stabilizers and Thickeners				
170(i)	Calcium Carbonate	GMP	Y	
339(i)	Monosodium Orthophosphate	970 mg/kg, singly or in combination, as phosphorus		
339(ii)	Disodium Orthophosphate			
339(iii)	Trisodium Orthophosphate			
340(i)	Monopotassium Orthophosphate			
340(ii)	Dipotassium Orthophosphate			
340(iii)	Tripotassium Orthophosphate			
341(i)	Monocalcium Orthophosphate			
341(ii)	Dicalcium Orthophosphate			
341(iii)	Tricalcium Orthophosphate			
342(i)	Monoammonium Orthophosphate			
342(ii)	Diammonium Orthophosphate			
343(ii)	Dimagnesium Orthophosphate			
343(iii)	Trimagnesium Orthophosphate			
450(i)	Disodium Diphosphate			
450(iii)	Tetrasodium Diphosphate			
450(v)	Tetrapotassium Diphosphate			
450(vi)	Dicalcium Diphosphate			
451(i)	Pentasodium Triphosphate			
451(ii)	Pentapotassium Triphosphate			
452(i)	Sodium Polyphosphate			
452(ii)	Potassium Polyphosphate			
452(iv)	Calcium Polyphosphate			
452(v)	Ammonium Polyphosphate			
400	Alginic Acid	GMP, Singly or in combination	Y	
401	Sodium Alginate		Y	
402	Potassium Alginate		Y	
403	Ammonium Alginate		Y	
404	Calcium Alginate		Y	
406	Agar	GMP	Y	
407	Carrageenan and its Na, K, NH ₄ , Ca and Mg salts (including furcelleran)	GMP	Y	Justification for whether a numeric ML of 5000 mg/kg is necessary.
407a	Processed Eucheuma Seaweed	GMP	Y	
410	Carob Bean Gum	GMP	Y	
412	Guar Gum	GMP	Y	
413	Tragacanth Gum	GMP	Y	
414	Gum Arabic	GMP	Y	
415	Xanthan Gum	GMP	Y	
416	Karaya Gum	GMP	Y	
417	Tara Gum	GMP	Y	
418	Gellan Gum	GMP	Y	
425	Konjac Flour	GMP	Y	
440	Pectins	GMP	Y	
459	Beta-Cyclodextrin	5 mg/kg		
460(i)	Microcrystalline Cellulose²⁶	GMP	Y	
460(ii)	Powdered Cellulose	GMP	Y	
461	Methyl Cellulose	GMP	Y	
463	Hydroxypropyl Cellulose	GMP	Y	
464	Hydroxypropyl Methyl Cellulose	GMP	Y	
465	Methyl Ethyl Cellulose	GMP	Y	

²⁶ CCMMP should consider if 460i and 460ii should be included per the recommendation of the 38th CCFAC.

Heat-Treated Fermented Milks (Flavoured)				
INS #	Substance	ML	GSFA Table 3¹⁶	Additional Information Requested
466	Sodium Carboxymethyl Cellulose	GMP	Y	
470	Salts of Oleic Acid (Ca, K, Na)	GMP	Y	
471	Mono- and Di- glycerides	GMP	Y	
472a	Acetic and Fatty Acid Esters of Glycerol	GMP	Y	
472b	Lactic and Fatty Acid Esters of Glycerol	GMP	Y	
472c	Citric and Fatty Acid Esters of Glycerol	GMP	Y	
508	Potassium Chloride	GMP	Y	
509	Calcium Chloride	GMP	Y	
1200	Polydextrose	GMP	Y	
1400	Dextrins, Roasted Starch	GMP	Y	
1401	Acid Treated Starch	GMP	Y	
1402	Alkaline Treated Starch	GMP	Y	
1403	Bleached Starch	GMP	Y	
1404	Oxidized Starch	GMP	Y	
1405	Enzyme Treated Starch	GMP	Y	
1410	Mono Starch Phosphate	GMP	Y	
1412	Distarch Phosphate	GMP	Y	
1413	Phosphated Distarch Phosphate	GMP	Y	
1414	Acetylated Distarch Phosphate	GMP	Y	
1420	Starch Acetate	GMP	Y	
1422	Acetylated Distarch Adipate	GMP	Y	
1440	Hydroxypropyl Starch	GMP	Y	
1442	Hydroxypropyl Distarch Phosphate	GMP	Y	
1450	Starch Sodium Octenyl Succinate	GMP	Y	
1451	Acetylated Oxidized Starch	GMP	Y	
Sweeteners²⁷				
420	Sorbitol and Sorbitol Syrup	GMP	Y	
950	Acesulfame Potassium	1,000 mg/kg ²⁸		Justification for this ML and why 500 mg/kg is not adequate
951	Aspartame	3,000 mg/kg ²⁹		Justification for this ML and why an ML of 600 mg/kg or 1000 mg/kg is not adequate.
952	Cyclamates	250 mg/kg ³⁰		
954	Saccharin	100 mg/kg ³¹		Justification for this ML, why 200 mg/kg is not adequate.
955	Sucralose	400 mg/kg ³²		Justification for this ML, why 300 mg/kg is not adequate.
956	Alitame	100 mg/kg ³³		
961	Neotame	GMP ³⁴		Proposal for a numeric ML.
962	Aspartame-Acesulfame	1,100 mg/kg		

²⁷ The use of sweeteners is limited to milk-and milk derivative-based drinks energy reduced or with no added sugar.

²⁸ The 30th CAC adopted an ML of 350 mg/kg in GSFA food category 01.7 (Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt) with no limitation on whether the food is energy reduced or contains no added sugar..

²⁹ The 30th CAC adopted an ML of 1000 mg/kg in GSFA food category 01.7 (Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt) with no limitation on whether the food is energy reduced or contains no added sugar..

³⁰ The 30th CAC adopted an ML of 250 mg/kg in GSFA food category 01.7 (Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt) with no limitation on whether the food is energy reduced or contains no added sugar..

³¹ The 30th CAC adopted an ML of 100 mg/kg in GSFA food category 01.7 (Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt) with no limitation on whether the food is energy reduced or contains no added sugar..

³² The 30th CAC adopted an ML of 400 mg/kg in GSFA food category 01.7 (Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt).

³³ The 30th CAC adopted an ML of 100 mg/kg in GSFA food category 01.7 (Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt).

³⁴ The 30th CAC adopted an ML of 100 mg/kg in GSFA food category 01.7 (Dairy-based desserts (e.g., pudding, fruit or flavoured yoghurt).

Heat-Treated Fermented Milks (Flavoured)				
INS #	Substance	ML	GSFA Table 3¹⁶	Additional Information Requested
966	Lactitol	GMP	Y	

Recommendation 6

11. The Committee may wish to simplify this list of food additives by explicitly listing only those food additives and their maximum use levels that have not been adopted by the Codex Alimentarius Commission in Table 3 of the GSFA and replacing the “Table 3 food additives” with the following text:

12. “Acidity regulators, colours, emulsifiers, flavour enhancers, packing gases, preservatives, stabilizers, sweeteners and thickeners used in accordance with Table 3 of the General Standard for Food Additives are acceptable for use in foods conforming to flavoured, heat-treated fermented milks described in this standard.”

Annex I

The following food additives have been endorsed by the 38th Codex Committee on Food Additives and Contaminants in fermented milks (Plain) and Heat-treated fermented milks (Plain).

FERMENTED MILKS (PLAIN)		
INS No.	Name of Additive	Maximum Level
Stabilizers and Thickeners		
331(iii)	Trisodium Citrate	Limited to GMP
334	Tartaric Acid (L(+)-)	Limited to GMP
335(i)	Monosodium Tartrate	Limited to GMP
335(ii)	Disodium Tartrate	Limited to GMP
336(i)	Monopotassium Tartrate	Limited to GMP
336(ii)	Dipotassium Tartrate	Limited to GMP
337	Potassium Sodium Tartrate	Limited to GMP
339(i)	Monosodium Orthophosphate	970 mg/kg, singly or in combination, as phosphorus
339(ii)	Disodium Orthophosphate	
339(iii)	Trisodium Orthophosphate	
340(i)	Monopotassium Orthophosphate	
340(ii)	Dipotassium Orthophosphate	
340(iii)	Tripotassium Orthophosphate	
341(i)	Monocalcium Orthophosphate	
341(ii)	Dicalcium Orthophosphate	
341(iii)	Tricalcium Orthophosphate	
342(i)	Monoammonium Orthophosphate	
342(ii)	Diammonium Orthophosphate	
343(ii)	Dimagnesium Orthophosphate	
343(iii)	Trimagnesium Orthophosphate	
450(i)	Disodium Diphosphate	
450(iii)	Tetrasodium Diphosphate	
450(v)	Tetrapotassium Diphosphate	
450(vi)	Dicalcium Diphosphate	
451(i)	Pentasodium Triphosphate	
451(ii)	Pentapotassium Triphosphate	
452(i)	Sodium Polyphosphate	
452(ii)	Potassium Polyphosphate	
452(iv)	Calcium Polyphosphate	
452(v)	Ammonium Polyphosphate	
401	Sodium Alginate	Limited to GMP
405	Propylene Glycol Alginate	Limited to GMP
406	Agar	Limited to GMP
407	Carrageenan and its Na, K, NH ₄ , Ca and Mg salts (including furcelleran)	Limited to GMP
407a	Processed Eucheuma Seaweed	Limited to GMP
410	Carob Bean Gum	Limited to GMP
412	Guar Gum	Limited to GMP
415	Xanthan Gum	Limited to GMP
416	Karaya Gum	Limited to GMP
417	Tara Gum	Limited to GMP
418	Gellan Gum	Limited to GMP
425	Konjac Flour	Limited to GMP
440	Pectins	Limited to GMP
460(i)	Microcrystalline Cellulose	Limited to GMP
460(ii)	Powdered Cellulose³⁵	Limited to GMP
466	Sodium Carboxymethyl Cellulose	Limited to GMP
1400	Dextrins, Roasted Starch	Limited to GMP
1401	Acid Treated Starch	Limited to GMP
1402	Alkaline Treated Starch	Limited to GMP
1403	Bleached Starch	Limited to GMP
1404	Oxidized Starch	Limited to GMP
1405	Enzyme Treated Starch	Limited to GMP
1410	Monostarch Phosphate	Limited to GMP
1412	Distarch Phosphate	Limited to GMP

³⁵ CCMMP should consider if 460(i) and 460(ii) should be included per the recommendation of the 38th CCFAC.

FERMENTED MILKS (PLAIN)		
INS No.	Name of Additive	Maximum Level
1413	Phosphated Distarch Phosphate	Limited to GMP
1414	Acetylated Distarch Phosphate	Limited to GMP
1420	Starch Acetate	Limited to GMP
1422	Acetylated Distarch Adipate	Limited to GMP
1440	Hydroxypropyl Starch	Limited to GMP
1442	Hydroxypropyl Distarch Phosphate	Limited to GMP
1450	Starch Sodium Octenyl Succinate	Limited to GMP

HEAT-TREATED FERMENTED MILKS (PLAIN)		
INS No.	Name of Additive	Maximum Level
Acidity Regulators		
260	Acetic Acid, Glacial	Limited to GMP
270	Lactic Acid (L-)	Limited to GMP
296	Malic Acid (DL-)	Limited to GMP
326	Potassium Lactate	Limited to GMP
327	Calcium Lactate	Limited to GMP
330	Citric Acid	Limited to GMP
331i	Sodium Dihydrogen Citrate	Limited to GMP
331(iii)	Trisodium Citrate	Limited to GMP
332(i)	Potassium Dihydrogen Citrate	Limited to GMP
332(ii)	Tripotassium Citrate	Limited to GMP
355	Adipic Acid	1500 mg/kg, as adipic acid
356	Sodium Adipate	
357	Potassium Adipate	
359	Ammonium Adipate	
500(i)	Sodium Carbonate	Limited to GMP
500(ii)	Sodium Hydrogen Carbonate	Limited to GMP
501(i)	Potassium Carbonate	Limited to GMP
504(i)	Magnesium Carbonate	Limited to GMP
504(ii)	Magnesium Hydrogen Carbonate	Limited to GMP
507	Hydrochloric Acid	Limited to GMP
524	Sodium Hydroxide	Limited to GMP
526	Calcium Hydroxide	Limited to GMP
527	Ammonium Hydroxide	Limited to GMP
528	Magnesium Hydroxide	Limited to GMP
529	Calcium Oxide	Limited to GMP
575	Glucono Delta-Lactone	Limited to GMP
Packing Gases		
290	Carbon Dioxide	Limited to GMP
941	Nitrogen	Limited to GMP
Stabilizers and Thickeners		
170i	Calcium Carbonate	Limited to GMP
339(i)	Monosodium Orthophosphate	970 mg/kg, singly or in combination, as phosphorus
339(ii)	Disodium Orthophosphate	
339(iii)	Trisodium Orthophosphate	
340(i)	Monopotassium Orthophosphate	
340(ii)	Dipotassium Orthophosphate	
340(iii)	Tripotassium Orthophosphate	
341(i)	Monocalcium Orthophosphate	
341(ii)	Dicalcium Orthophosphate	
341(iii)	Tricalcium Orthophosphate	
342(i)	Monoammonium Orthophosphate	
342(ii)	Diammonium Orthophosphate	
343(ii)	Dimagnesium Orthophosphate	
343(iii)	Trimagnesium Orthophosphate	
450(i)	Disodium Diphosphate	
450(iii)	Tetrasodium Diphosphate	
450(v)	Tetrapotassium Diphosphate	
450(vi)	Dicalcium Diphosphate	
451(i)	Pentasodium Triphosphate	

HEAT-TREATED FERMENTED MILKS (PLAIN)		
INS No.	Name of Additive	Maximum Level
451(ii)	Pentapotassium Triphosphate	
452(i)	Sodium Polyphosphate	
452(ii)	Potassium Polyphosphate	
452(iv)	Calcium Polyphosphate	
452(v)	Ammonium Polyphosphate	
400	Alginate Acid	Limited by GMP Singly or in combination.
401	Sodium Alginate	
402	Potassium Alginate	
403	Ammonium Alginate	
404	Calcium Alginate	
406	Agar	Limited to GMP
407	Carrageenan and its Na, K, NH ₄ , Ca and Mg salts (including furcelleran)	Limited to GMP
407a	Processed Eucheuma Seaweed	Limited to GMP
410	Carob Bean Gum	Limited to GMP
412	Guar Gum	Limited to GMP
413	Tragacanth Gum	Limited to GMP
414	Gum Arabic	Limited to GMP
415	Xanthan Gum	Limited to GMP
416	Karaya Gum	Limited to GMP
417	Tara Gum	Limited to GMP
418	Gellan Gum	Limited to GMP
425	Konjac Flour	Limited to GMP
440	Pectins	Limited to GMP
460(i)	Microcrystalline Cellulose³⁶	Limited to GMP
460(ii)	Powdered Cellulose	Limited to GMP
461	Methyl Cellulose	Limited to GMP
463	Hydroxypropyl Cellulose	Limited to GMP
464	Hydroxypropyl Methyl Cellulose	Limited to GMP
465	Methyl Ethyl Cellulose	Limited to GMP
466	Sodium Carboxymethyl Cellulose	Limited to GMP
470	Salts of Oleic Acid (Ca, K, Na)	Limited to GMP
471	Mono- and Di- Glycerides	Limited to GMP
472a	Acetic and Fatty Acid Esters of Glycerol	Limited to GMP
472b	Lactic and Fatty Acid Esters of Glycerol	Limited to GMP
472c	Citric and Fatty Acid Esters of Glycerol	Limited to GMP
1200	Polydextrose	Limited to GMP
1400	Dextrins, Roasted Starch	Limited to GMP
1401	Acid Treated Starch	Limited to GMP
1402	Alkaline Treated Starch	Limited to GMP
1403	Bleached Starch	Limited to GMP
1404	Oxidized Starch	Limited to GMP
1405	Enzyme Treated Starch	Limited to GMP
1410	Mono Starch Phosphate	Limited to GMP
1412	Distarch Phosphate	Limited to GMP
1413	Phosphated Distarch Phosphate	Limited to GMP
1414	Acetylated Distarch Phosphate	Limited to GMP
1420	Starch Acetate	Limited to GMP
1422	Acetylated Distarch Adipate	Limited to GMP
1440	Hydroxypropyl Starch	Limited to GMP
1442	Hydroxypropyl Distarch Phosphate	Limited to GMP
1450	Starch Sodium Octenyl Succinate	Limited to GMP

³⁶ CCMMP should consider if 460(i) and 460(ii) should be included per the recommendation of the 38th CCFAC.

Annex II

All Acidity Regulators, Colours, Emulsifiers, Flavour Enhancers, Packing Gases, Preservatives, Stabilizers, Sweeteners and Thickeners listed in Table 3 of the Codex General Standard for Food Additives (CX-STAN 192).

GSFA Table 3 Acidity Regulators			
INS	Additive	INS	Additive
260	Acetic Acid, Glacial	365	Sodium Fumarate
261	Potassium Acetates	380	Triammonium Citrate
262i	Sodium Acetate	500i	Sodium Carbonate
263	Calcium Acetate	500ii	Sodium Hydrogen Carbonate
264	Ammonium Acetate	500iii	Sodium Sesquicarbonate
270	Lactic Acid	501i	Potassium Carbonate
296	Malic Acid (DL-)	501ii	Potassium Hydrogen Carbonate
297	Fumaric Acid	503i	Ammonium Carbonate
326	Potassium Lactate	503ii	Ammonium Hydrogen Carbonate
327	Calcium Lactate	504i	Magnesium Carbonate
328	Ammonium Lactate	504ii	Magnesium Hydrogen Carbonate
329	Magnesium Lactate (DL-)	507	Hydrochloric Acid
330	Citric Acid	514	Sodium Sulphate
331i	Sodium Dihydrogen Citrate	515	Potassium Sulphate
331iii	Trisodium Citrate	524	Sodium Hydroxide
332i	Potassium Dihydrogen Citrate	525	Potassium Hydroxide
332ii	Tripotassium Citrate	526	Calcium Hydroxide
333	Calcium Citrates	527	Ammonium Hydroxide
350i	Sodium Hydrogen Malate	528	Magnesium Hydroxide
350ii	Sodium Malate	529	Calcium Oxide
351i	Potassium Hydrogen Malate	575	Glucono delta-Lactone
351ii	Potassium Malate	578	Calcium Gluconate
352ii	Calcium Malate	580	Magnesium Gluconate

GSFA Table 3 Colours			
INS	Additive	INS	Additive
162	Beet Red	140	Chlorophylls
150a	Caramel Colour, Class I	171	Titanium Dioxide

GSFA Table 3 Emulsifiers			
INS	Additive	INS	Additive
322	Lecithins	965	Maltitol (Including Maltitol Syrup)
331i	Sodium Dihydrogen Citrate	966	Lactitol
331iii	Trisodium Citrate	967	Xylitol
413	Tragacanth Gum	1001	Choline Salts
460i	Microcrystalline Cellulose	1401	Acid-Treated Starch
460ii	Powdered Cellulose	1402	Alkaline Treated Starch
461	Methyl Cellulose	1403	Bleached Starch
463	Hydroxypropyl Cellulose	1404	Oxidized Starch
464	Hydroxypropyl Methyl Cellulose	1405	Starches, Enzyme Treated
465	Methyl Ethyl Cellulose	1410	Monostarch Phosphate
466	Sodium Carboxymethyl Cellulose	1412	Distarch Phosphate
467	Ethyl Hydroxyethyl Cellulose	1414	Acetylated Distarch Phosphate
470	Salts of Myristic, Palmitic and Stearic Acids (NH ₄ , Ca, K, Na)	1422	Acetylated Distarch Adipate
470	Salts of Oleic Acids (Ca, K, Na)	1440	Hydroxypropyl Starch
471	Mono- and Diglycerides	1440	Hydroxypropyl Starch
472a	Acetic and Fatty Acid Esters of Glycerol	1442	Hydroxypropyl Distarch Phosphate
472c	Citric and Fatty Acid Esters of Glycerol	1450	Starch Sodium Octenyl Succinate
472b	Lactic and Fatty Acid Esters of Glycerol	1451	Acetylated Oxidized Starch

GSFA Table 3 Flavour Enhancers			
INS	Additive	INS	Additive
1101iii	Bromelain	626	Guanylic Acid, 5'-
623	Calcium Glutamate, DI-L-	630	Inosinic Acid, 5'-
629	Calcium Guanylate, 5'-	1104	Lipase (Animal Sources)
633	Calcium Inosinate, 5'-	1104	Lipase (<i>Aspergillus oryzae</i> Var.)
634	Calcium Ribonucleotides, 5'-	580	Magnesium Gluconate
628	Dipotassium Guanylate, 5'-	625	Magnesium Glutamate, DI-L-
632	Dipotassium Inosinate, 5'-	624	Monoammonium Glutamate, L-
627	Disodium Guanylate, 5'-	622	Monopotassium Glutamate, L-
631	Disodium Inosinate, 5'-	621	Monosodium Glutamate, L-
635	Disodium Ribonucleotides, 5'-	1101ii	Papain
968	Erythritol	508	Potassium Chloride
620	Glutamic Acid (L+)-	957	Thaumatococcus

GSFA Table 3 Packing Gases			
INS	Additive	INS	Additive
290	Carbon Dioxide	941	Nitrogen

GSFA Table 3 Preservatives			
INS	Additive	INS	Additive
260	Acetic Acid, Glacial	280	Propionic Acid
261	Potassium Acetates	281	Sodium Propionate
262i	Sodium Acetate	282	Calcium Propionate
263	Calcium Acetate	283	Potassium Propionate

GSFA Table 3 Stabilizers			
INS		INS	Additive
170i	Calcium Carbonate	467	Ethyl Hydroxyethyl Cellulose
263	Calcium Acetate	468	Cross-Linked Carboxymethyl Cellulose
331i	Sodium Dihydrogen Citrate	470	Salts of Myristic, Palmitic and Stearic Acids (NH ₄ , Ca, K, Na)
331iii	Trisodium Citrate	470	Salts of Oleic Acids (Ca, K, Na)
332i	Potassium Dihydrogen Citrate	471	Mono- and Diglycerides
332ii	Tripotassium Citrate	472a	Acetic and Fatty Acid Esters of Glycerol
400	Alginic Acid	472b	Lactic and Fatty Acid Esters of Glycerol
401	Sodium Alginate	472c	Citric and Fatty Acid Esters of Glycerol
402	Potassium Alginate	501i	Potassium Carbonate
403	Ammonium Alginate	501ii	Potassium Hydrogen Carbonate
404	Calcium Alginate	965	Maltitol (Including Maltitol Syrup)
406	Agar	967	Xylitol
407	Carrageenan	1101iii	Bromelain
407a	Processed Eucheuma Seaweed	1200	Polydextroses
410	Carob Bean Gum	1202	Insoluble Polyvinylpyrrolidone
412	Guar Gum	1400	Dextrins, White and Yellow, Roasted Starch
413	Tragacanth Gum	1401	Acid Treated Starch
414	Gum Arabic	1402	Alkaline Treated Starch
415	Xanthan Gum	1403	Bleached Starch
416	Karaya Gum	1404	Oxidized Starch
417	Tara Gum	1405	Starches, Enzyme Treated
418	Gellan Gum	1410	Monostarch Phosphate
440	Pectins	1412	Distarch Phosphate
457	Cyclodextrin, alpha-	1413	Phosphated Distarch Phosphate
458	Cyclodextrin, gamma-	1420	Starch Acetate
461	Methyl Cellulose	1422	Acetylated Distarch Adipate
463	Hydroxypropyl Cellulose	1442	Hydroxypropyl Distarch Phosphate
464	Hydroxypropyl Methyl Cellulose	1450	Starch Sodium Octenyl Succinate
465	Methyl Ethyl Cellulose	1451	Acetylated Oxidized Starch
466	Sodium Carboxymethyl Cellulose		

GSFA Table 3 Sweeteners			
INS	Additive	INS	Additive
420	Sorbitol (Including Sorbitol Syrup)	965	Maltitol (Including Maltitol Syrup)
421	Mannitol	966	Lactitol
953	Isomalt	967	Xylitol
957	Thaumatococcus	968	Erythritol
964	Polyglycol Syrup		

GSFA Table 3 Thickeners			
INS	Additive	INS	Additive
400	Alginic Acid	466	Sodium Carboxymethyl Cellulose
401	Sodium Alginate	467	Ethyl Hydroxyethyl Cellulose
402	Potassium Alginate	469	Sodium Carboxymethyl Cellulose, Enzymatically Hydrolyzed
403	Ammonium Alginate	967	Xylitol
404	Calcium Alginate	1200	Polydextroses
406	Agar	1400	Dextrins, White and Yellow, Roasted Starch
407	Carrageenan	1401	Acid Treated Starch
407a	Processed Eucheuma Seaweed	1402	Alkaline Treated Starch
410	Carob Bean Gum	1403	Bleached Starch
412	Guar Gum	1404	Oxidized Starch
413	Tragacanth Gum	1405	Enzyme Treated Starch
414	Gum Arabic	1410	Monostarch Phosphate
415	Xanthan Gum	1412	Distarch Phosphate
416	Karaya Gum	1413	Phosphated Distarch Phosphate
417	Tara Gum	1414	Acetylated Distarch Phosphate
418	Gellan Gum	1420	Starch Acetate
425	Konjac Flour	1422	Acetylated Distarch Adipate
440	Pectins	1440	Hydroxypropyl Starch
461	Methyl Cellulose	1442	Hydroxypropyl Distarch Phosphate
463	Hydroxypropyl Cellulose	1450	Starch Sodium Octenyl Succinate
464	Hydroxypropyl Methyl Cellulose	1451	Acetylated Oxidized Starch
465	Methyl Ethyl Cellulose		