# CODEX ALIMENTARIUS COMMISSION **E**







Viale delle Terme di Caracalla, 00153 Rome, Italy - Tel: (+39) 06 57051 - Fax: (+39) 06 5705 4593 - E-mail: codex@fao.org - www.codexalimentarius.org

Agenda Item 5d

CX/FA 14/46/11 December 2013

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

Forty-Sixth Session

Hong Kong, China, 17-21 March 2014

DESCRIPTORS AND FOOD ADDITIVE PROVISIONS OF FOOD CATEGORY 01.1.1 "MILK AND BUTTER MILK (PLAIN)" AND ITS SUB-CATEGORIES AND FOOD CATEGORY 01.1.2 "DAIRY-BASED DRINKS, FLAVOURED AND/OR FERMENTED (E.G. CHOCOLATE MILK, COCOA, EGGNOG, DRINKING YOGHURT, WHEY-BASED DRINK)"

Prepared by an electronic Working Group led by New Zealand with comments received from Austria. India, Indonesia, Japan, Malaysia, Russia, Spain, USA, International Dairy Federation (IDF) and World **Association of Seaweed Processors (Marinalg International)** 

- The 45<sup>th</sup> Session of the Codex Committee on Food Additives (CCFA) identified inconsistencies between the descriptions of some milk categories and provisions for the use of food additives in these food categories under the Codex General Standard for Food Additives (GSFA). The Committee agreed to establish an electronic Working Group chaired by New Zealand to:
  - (i) Consider the effect of the descriptors of food categories 01.1.1 ("Milk and buttermilk (plain)"), 01.1.1.1 ("Milk (plain)"), 01.1.1.2 ("Buttermilk (plain)") and 01.1.2 ("Dairy-based drinks, flavoured and/or fermented (e.g. chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drink)") on the technologically justified use of food additives in such foods, where applicable;
  - (ii) Prepare recommendations to address descriptors which do not allow the use of additives in foods where the use of additives in such foods are technologically justified; and
  - (iii) Prepare recommendations on the horizontal approach to the use of emulsifiers, stabilizers and thickeners in these food categories.

## **Background**

- During the discussion of the physical Working Group (pWG) to the 45th CCFA regarding the provisions for food additives with the technological function of "emulsifier, stabilizer, thickener" (EST) listed in Appendix 3 of CX/FA 13/45/7, an Observer noted that there are inconsistencies between the descriptions of foods covered by food category 01.1.1 (Milk and buttermilk (plain)) and its subcategories 01.1.1.1 (Milk (plain)) and 01.1.1.2 (Buttermilk (plain)) and the technologically justified use of food additives in these foods. These inconsistencies may cause problems when considering provisions for food additives that are needed for the production of reconstituted, recombined, and ultra-high temperature (UHT) products. The pWG made no decisions regarding the use of Table 3 food additives with the function of EST in food categories 01.1.1, 01.1.1.1 and 01.1.1.2.
- 3. The food category system is based on product descriptors of food stuffs as marketed, unless otherwise stated (Preamble to the General Standard for Food Additives (CODEX STAN 192-1995. Section 5).
- 4. Under the Codex General Standard for the Use of Dairy Terms (CODEX STAN 206-1999):

Milk is the normal mammary secretion of milking animals obtained from one or more milkings without either addition to it or extraction from it, intended for consumption as liquid milk or for further processing.

Milk product is a product obtained by processing of milk, which may contain food additives, and other ingredients functionally necessary for the processing.

A reconstituted milk product is a product resulting from the addition of water to the dried or concentrated form of the product in the amount necessary to re-establish the appropriate water to solids ratio.

A **recombined milk product** is a product resulting from the combining of milkfat and milk-solids-non-fat in their preserved forms with or without the addition of water to achieve the appropriate milk product composition.

#### Issues to be addressed

- i) Conflicts between the definition of "milk" in the Codex General Standard for the Use of Dairy Terms (CODEX STAN 206-1999) and the descriptor of food category 01.1.1.1 (Milk (plain))<sup>1</sup>.
  - a. The definition of "milk" in CODEX STAN 206-1999 does not allow for extraction of ingredients from milk. However, many of the foods listed in the descriptor of food category 01.1.1.1 (Milk (plain)) are the result of the extraction of ingredients, mainly fat, from milk (i.e. skim, part-skim, and low-fat milk). If the prohibition of extraction of ingredients from milk in CODEX STAN 206-1999 is applied to food category 01.1.1.1 (Milk (plain)), most of the foods listed in the descriptor would not be covered by this food category.
  - b. The definition of "milk" in CODEX STAN 206-1999 does not allow for the use of food additives in milk.
    - i. Many of the processes listed in the descriptor of food category 01.1.1.1 (Milk (plain)) require the addition of stabilizers into the final food (i.e. heat-treatment by pasteurization, ultra-high temperature (UHT) treatment or sterilization). For example, the broader food category 01.1.1.1 (Milk and buttermilk (plain)) contains an adopted provision for Phosphates with Note 227 ("For use in sterilized and UHT treated milks only.") Additionally, many Codex Members add vitamins and/or minerals to, or may use packaging gases in, these foods. If the prohibition of addition of additives to milk in CODEX STAN 206-1999 is applied to food category 01.1.1.1 (Milk (plain)), most of the processes listed in the descriptor would not be covered by this food category, nor would any of these additives be allowed.
    - ii. In accordance with the hierarchical structure of the food category system as described in Principle 5a of the Preamble to the GSFA (see Attachment 1), additives recognized for use in the broader parent categories 01.1 (Milk and dairy-based drinks) or 01.1.1 (Milk and buttermilk (plain)) would automatically be accepted for use in subcategory 01.1.1.1 (Milk (plain)). There currently are food additive provisions in the step process for all three of these food categories. If the prohibition of addition of additives to milk in CODEX STAN 206-1999 is applied to food category 01.1.1.1 (Milk (plain)), all of these provisions should be discontinued or revoked.
- ii) The current food category system and descriptors do not address:
  - a. Reconstituted plain milk: Reconstituted plain milk is listed in the descriptor for the parent food category 01.1.1 (Milk and buttermilk (plain))<sup>2</sup>, but is not covered by either of the relevant subcategories. The production of reconstituted milk first involves the extraction of water from milk, followed by reconstitution with water at a later stage. According to CODEX STAN 206-1999 "milk" cannot have anything extracted from or added to it. Therefore, reconstituted milk does not fit into subcategory 01.1.1.1 (Milk (plain)). Additionally, reconstituted plain milk is not buttermilk, so it would not fit into subcategory 01.1.1.2 (Buttermilk (plain))<sup>3</sup>.
  - b. Recombined plain milk and other plain (non-flavoured) milk products: Under the current food category system of the GSFA, recombined plain milk and other plain (non-flavoured) milk products would fit into food category 01.1 (Milk and dairy-based drinks). However, these foods would not fit into any of the subcategories of this parent food category.
    - i. The production of recombined plain milk involves the addition of dairy ingredients and as such this food would not meet the definition of "milk" in CODEX STAN 206-1999 and therefore does not fit into subcategory 01.1.1.1 (Milk (plain)). Additionally, recombined plain milk is not buttermilk, so it would not fit into subcategory 01.1.1.2 (Buttermilk (plain)). However, since recombined plain milk does not contain flavours, it also would not fit into subcategory 01.1.2

.

<sup>&</sup>lt;sup>1</sup> The descriptor of food category 01.1.1.1 (Milk (plain)) reads as follows: "Fluid milk obtained from milking animals (e.g. cows, sheep, goats, buffalo). Milk is usually heat-treated by pasteurization, ultra-high temperature (UHT) treatment or sterilization.13 Includes skim, part-skim, low-fat and whole milk.

<sup>&</sup>lt;sup>2</sup> The descriptor of food category 01.1.1 (Milk and buttermilk (plain)) reads as follows: "Includes plain fluid products only. Includes reconstituted plain milk that contains only dairy ingredients."

<sup>&</sup>lt;sup>3</sup> CODEX STAN 206-1999 does not define "buttermilk". The descriptor for food category 01.1.1.2 (Buttermilk (plain)) defines buttermilk as "the nearly milkfat-free fluid remaining from the butter-making process (i.e. the churning fermented or non-fermented milk and cream). Buttermilk is also produced by fermentation of fluid skim milk, either by spontaneous souring by the action of lactic acid-forming or aroma-forming bacteria, or by inoculation of heated milk with pure bacterial cultures (cultured buttermilk)."

- (Dairy-based drinks, flavoured and/or fermented (e.g. chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks)).
- ii. Other plain (non-flavoured) milk products such as lactose reduced milk and milk product with modified organoleptic properties would not fit into subcategory 01.1.1.1 (Milk (plain)) as they have ingredients added to or extracted from them, These products would not fit into subcategory 01.1.1.2 (Buttermilk (plain)) as they are not buttermilk, and would not fit into subcategory 01.1.2 (Dairy-based drinks, flavoured and/or fermented (e.g. chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks)) as they are not flavoured.
- 5. It should be noted that none of the products mentioned in Point 2 are covered by Codex commodity standards.
- 6. To assist with the discussion to address the issues, Attachments 1 3 are excerpts from previous work carried out by CCFA:
  - Attachment 1 Excerpts from CODEX STAN 192-1995, Codex General Standard for Food Additives Food Category System.
  - Attachment 2 Excerpts from CCFA45 CRD2
  - Attachment 3 Excerpts from FA/46 INF/01 Table 2 Food Categories or Individual Food Items in Which Food Additives are Permitted (In the Step Process)

#### Principles used when considering the issues

- Food categories should be aligned with dairy products currently found in international trade as much as possible.
- ii. "Reconstituted milk" in the GSFA should be amended to "reconstituted milk, recombined milk".
- iii. Food additives, where permitted, can be added to a "plain" product in the categories under consideration.
- iv. Vitamins and minerals that are mandatory additions in national legislation can be added to a "plain" milk product.
- v. Vitamins and minerals (that are voluntary additions) can be added to a "plain" milk product.

#### Options for addressing the issues:

#### Option 1

- 7. Retain the current food category structure of the GSFA and provide specific notes to identify the use of EST that do not align with the prohibition of the use of the food additives in 'milk', as defined by the Codex *General Standard for the Use of Dairy Terms* (CODEX STAN 206-1999).
- 8. This option tends to undermine the relationship between the GFSA and corresponding commodity standards. Further, the use of specific notes would need to be extended in the future to include functional classes other that EST, as appropriate. This approach also does not resolve the issues identified regarding the correct placement of certain dairy products in the food category system

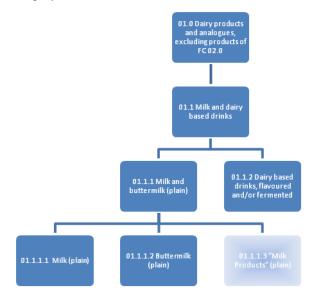
#### Option 2

- 9. Revise the descriptors of the current food categories to define where the unflavoured milk products would be placed.
- 10. The revision of the descriptors could have consequential effects on the current provisions in the GSFA either adopted or in the step process in the affected food categories.

#### Option 3

- 11. Revise food category 01.1 (Milk and dairy-based drinks) and its subcategories to define where unflavoured milk products would be placed, taking into account technological justifications of EST where possible. Revise the descriptors of the current subcategories and create a new subcategory where alignment is not possible. See Figures 1 and 2 for potential revisions. The lighter shaded boxes indicate the changes to the current food category system.
- 12. The revision of the descriptors and creation of a new subcategory could have consequential effects on the current provisions in the GSFA either adopted or in the step process in the affected food categories.

Figure 1 Suggested new subcategory

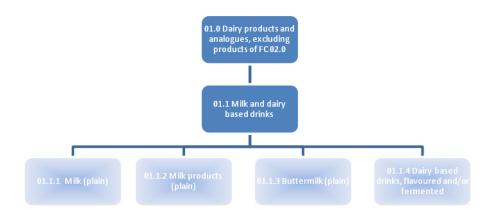


# 01.1.1.3 "Milk Products" (plain)

Includes all plain fluid milk, excluding products of food category 01.1.1.1. Includes recombined milk product, reconstituted milk product, unflavoured vitamin and mineral fortified milk product, lactose reduced milk, milk product with modified organoleptic properties

#### Figure 2 Suggested restructured subcategories

(deleting current 01.1.1 Milk and buttermilk plain as no products sit in this category – reallocated as shown below)



#### 01.1.1 Milk (plain)

Fluid milk obtained from milking animals (e.g., cows, sheep, goats, buffalo). Milk is usually heat-treated by pasteurization, [ultra-high temperature (UHT) treatment or sterilization]. Includes skim, part-skim, low-fat and whole milk.

#### 01.1.2 Milk products (plain)

Includes all plain fluid milk, excluding products of food category 01.1.1. Includes plain recombined milk product, plain reconstituted milk product, unflavoured vitamin and mineral fortified milk product, lactose reduced milk, plain milk product with modified organoleptic properties

#### 01.1.3 Buttermilk (plain)

Buttermilk is the nearly milkfat-free fluid remaining from the butter-making process (i.e., the churning fermented or non-fermented milk and cream). Buttermilk is also produced by fermentation of fluid skim milk, either by spontaneous souring by the action of lactic acid-forming or aroma-forming bacteria, or by inoculation of heated milk with pure bacterial cultures (cultured buttermilk). Buttermilk may be pasteurized or sterilized.

# <u>01.1.2</u> 01.1.4 Dairy-based drinks, flavoured and/or fermented (e.g. chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks):

Includes all ready-to-drink flavoured and aromatized milk-based fluid beverages and their mixes, excluding mixes for cocoa (cocoa-sugar mixtures, category 05.1.1). Examples include: hot chocolate, chocolate malt drinks, strawberry-flavoured yoghurt drink, lactic acid bacteria drinks, and *lassi* (liquid obtained by whipping curd from the lactic acid fermentation of milk, and mixing with sugar or synthetic sweetener).

#### **Preferred Option**

13. From the options discussed by the eWG all participants preferred Option 3 as the most appropriate way to address the concerns. However there was no clear preference for Figure 1 or Figure 2.

14. The USA, who are the chair of the physical Working Group (pWG) on the GSFA, in their comments outlined the process that would need to be followed in order to progress either Option 2 or Option 3.

#### Option 2

15. The revision of the descriptors to accommodate certain milk products is more likely to be substantive than editorial. Substantive revision of the food category system requires a project document proposing new work (Codex Procedural Manual, 21st Ed. (2013), Section II: Elaboration of Codex Standards, Procedures for the Elaboration of Codex Standards and Related Texts, pp.28-30). Although the eWG is currently considering the use of EST in these products, the descriptors would need to be revised with the view that the use of additives with other functional classes would need to be taken into account in the future, as appropriate. The revision of the descriptors could have consequential effects on the current provisions in the GSFA – either adopted or in the step process – in the affected food categories.

#### Option 3

- 16. Although the eWG is currently considering the use of EST, food category 01.1 would need to be revised with the view that the use of additives with other functional classes would need to be taken into account in the future, as appropriate. Similar to Option 2, Option 3 would require a project document proposing new work. Additionally, the creation of a new subcategory or restructuring the current subcategories would require that CCFA follow its previous practice to discontinue or revoke all of the provisions in the affected food categories and subcategories, and to repopulate them according to the revised categorization (see e.g. REP 12/FA, para. 112).
- 17. This was not taken into consideration by eWG participants when giving their preferred option

#### Recommendation

- 18. The eWG recommends that the 46th CCFA continues work on Option 3.
- 19. As the food categories discussed above have not been finalised the eWG has not prepared recommendations on the horizontal approach to the use of emulsifiers, stabilizers and thickeners.
- 20. Note that this agenda item will form part of the discussion of the pWG on the GSFA.

## **Attachment 1**

#### EXCERPT FROM CODEX STAN 192-1995 Codex General Standard for Food Additives

#### 5. FOOD CATEGORY SYSTEM

The food category system is a tool for assigning food additive uses in this Standard. The food category system applies to all foodstuffs.

The food category descriptors are not to be legal product designations nor are they intended for labelling purposes.

The food category system is based on the following principles:

- a) The food category system is hierarchical, meaning that when an additive is recognized for use in a general category, it is recognized for use in all its sub-categories, unless otherwise stated. Similarly, when an additive is recognized for use in a sub-category, its use is recognized in any further subcategories or individual foodstuffs mentioned in a sub-category.
- b) The food category system is based on product descriptors of foodstuffs as marketed, unless otherwise stated.
- c) The food category system takes into consideration the carry-over principle. By doing so, the food category system does not need to specifically mention compound foodstuffs (e.g., prepare meals, such as pizza, because they may contain, pro rata, all the additives endorsed for use in their components), unless the compound foodstuff needs an additive that is not endorsed for use in any of its components.
- d) The food category system is used to simplify the reporting of food additive uses for assembling and constructing this Standard

#### **ANNEX B**

# **FOOD CATEGORY SYSTEM**

#### **PART I: Food Category System**

- 01.0 Dairy products and analogues, excluding products of food category 02.0
- 01.1 Milk and dairy-based drinks
- 01.1.1 Milk and buttermilk (plain)
- 01.1.1.1 Milk (plain)
- 01.1.1.2 Buttermilk (plain)
- 01.1.2 Dairy-based drinks, flavoured and/or fermented (e.g. chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks)

#### **PART II: Food Category Descriptors**

## 01.0 Dairy products and analogues, excluding products of food category 02.0

Includes all types of dairy products that are derived from the milk of any milking animal (e.g., cow, sheep, goat, buffalo). In this category, a "plain" product is one that is not flavoured, nor contains fruit, vegetables or other non-dairy ingredients, nor is mixed with other non-dairy ingredients, unless permitted by relevant standards. Analogues are products in which milk fat has been partially or wholly replaced by vegetable fats or oils.

#### 01.1 Milk and dairy-based drinks:

Includes all plain and flavoured fluid milk products based on skim, part-skim, low-fat and whole milk.

#### 01.1.1 Milk and buttermilk (plain):

Includes plain fluid products only. Includes reconstituted plain milk that contains only dairy ingredients.

#### 01.1.1.1 Milk (plain):

Fluid milk obtained from milking animals (e.g., cows, sheep, goats, buffalo). Milk is usually heat-treated by pasteurization, ultra-high temperature (UHT) treatment or sterilization. Includes skim, part-skim, low-fat and whole milk.

## 01.1.1.2 Buttermilk (plain):

Buttermilk is the nearly milkfat-free fluid remaining from the butter-making process (i.e., the churning fermented or non-fermented milk and cream). Buttermilk is also produced by fermentation of fluid skim milk, either by spontaneous souring by the action of lactic acid-forming or aroma-forming bacteria, or by inoculation of heated milk with pure bacterial cultures (cultured buttermilk). Buttermilk may be pasteurized or sterilized.

# <u>01.1.2 Dairy-based drinks, flavoured and/or fermented (e.g. chocolate milk, cocoa, eggnog, drinking yoghurt, whey-based drinks):</u>

Includes all ready-to-drink flavoured and aromatized milk-based fluid beverages and their mixes, excluding mixes for cocoa (cocoa-sugar mixtures, category 05.1.1). Examples include: hot chocolate, chocolate malt drinks, strawberry-flavoured yoghurt drink, lactic acid bacteria drinks, and *lassi* (liquid obtained by whipping curd from the lactic acid fermentation of milk, and mixing with sugar or synthetic sweetener).

## **Attachment 2**

# **Excerpts from CCFA45 CRD2**

# APPENDIX IV: DETERMINATION OF TECHNOLOGICAL JUSTIFICATION FOR THE USE OF ACIDITY REGULATORS IN FOOD CATEGORIES CONTAINED IN THE ANNEX TO TABLE 3

Food Category Number	Food Category Description	Recommendation of physical working group
01.1.1	Milk and buttermilk (plain)	The use of acidity regulators is <b>not</b> justified in this food category on a general basis.
01.1.1.1	Milk (plain)	The use of acidity regulators is <b>not</b> justified in this food category on a general basis.
01.1.1.2	Buttermilk (plain)	The use of acidity regulators is justified in this food category on a general basis.

# APPENDIX V: DETERMINATION OF TECHNOLOGICAL JUSTIFICATION FOR THE USE OF EMUSIFIERS STABILIZERS THICKENERS IN FOOD CATEGORIES CONTAINED IN THE ANNEX TO TABLES 1 & 2

Food Category Number	Food Category Description	Recommendation of physical working group
01.1.1	Milk and buttermilk (plain)	No decision
01.1.1.1	Milk (plain)	No decision
01.1.1.2	Buttermilk (plain)	The use of emulsifiers, stabilizers and thickeners is <b>not</b> justified in this food category on a general basis.

Food categories shaded in gray are listed in the Annex to Table 3 in CODEX STAN 192-1995. Food categories that are not shaded are covered by the Annex to Table 3 by means of the hierarchical nature of the GSFA food category system.

# **Attachment 3**

# DRAFT, PROPOSED DRAFT, AND ADOPTED PROVISIONS IN GSFA DAIRY FOOD CATEGORIES 01.1, 01.1.1, 01.1.1.2, AND 01.1.2

Food Category No. 01.1 (Milk and dairy-based drinks)					
Additive	INS	Max Level (mg/kg)	Notes	Step	Year
TOCOPHEROLS	307a, b, c	200	_	7	

Additive	INS	Max Level (mg/kg)	Notes	Step	Year
AGAR	406	4000		7	
CARBON DIOXIDE	290	GMP	59	7	
GELLAN GUM	418	GMP		7	
GUAR GUM	412	6000		7	
KARAYA GUM	416	200		7	
KONJAC FLOUR	425	GMP		7	
MICROCRYSTALLINE CELLULOSE (CELLULOSE GEL)	460(i)	GMP		7	
MONO- AND DI-GLYCERIDES OF FATTY ACIDS	471	10000		7	
NITROGEN	941	GMP	59	7	
NITROUS OXIDE	942	GMP		7	
PECTINS	440	GMP		7	
PHOSPHATES	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	1500	33, 227	Adopted	2012
POLYDEXTROSES	1200	GMP		7	
PROCESSED EUCHEUMA SEAWEED (PES)	407a	GMP		4	
TARÁ GUM	417	GMP		7	
TRISODIUM CITRATE	331(iii)	GMP		7	

Food Category No. 01.1.1.1 (Milk (plain))					
Additive	INS	Max Level (mg/kg)	Notes	Step	Year
CAROB BEAN GUM	410	GMP		7	
CARRAGEENAN	407	10000		7	
SODIUM ALGINATE	401	GMP		4	
SODIUM CARBOXYMETHYL CELLULOSE (CELLULOSE GUM)	466	GMP		4	
XANTHAN GUM	415	GMP		7	

Food Category No. 01.1.1.2 (Buttermilk (plain))					
Additive	INS	Max Level (mg/kg)	Notes	Step	Year
ACETIC AND FATTY ACID ESTERS OF GLYCEROL	472a	GMP		7	
ACETYLATED DISTARCH PHOSPHATE	1414	GMP		7	
ALGINIC ACID	400	6000		7	
CALCIUM ALGINATE	404	6000		7	
CAROB BEAN GUM	410	5000		7	
CARRAGEENAN	407	6000		7	
CITRIC AND FATTY ACID ESTERS OF GLYCEROL	472c	GMP		7	

Additive	INS	Max Level	Notes	Step	Year
		(mg/kg)			
GLYCEROL	422	GMP		7	
GUM ARABIC (ACACIA GUM)	414	GMP		7	
HYDROXYPROPYL CELLULOSE	463	GMP		7	
HYDROXYPROPYL METHYL	464	GMP		7	
CELLULOSE					
HYDROXYPROPYL STARCH	1440	GMP		7	
LACTIC AND FATTY ACID ESTERS OF GLYCEROL	472b	GMP		7	
LECITHIN	322(i)	GMP		7	
MAGNESIUM CARBONATE	504(i)	GMP	261	Adopte d	2013
MAGNESIUM CHLORIDE	511	GMP		7	
MAGNESIUM HYDROXIDE	528	GMP	261	Adopte d	2013
MAGNESIUM HYDROXIDE CARBONATE	504(ii)	GMP	261	Adopte d	2013
METHYL CELLULOSE	461	GMP		7	
METHYL ETHYL CELLULOSE	465	GMP		7	
OXIDIZED STARCH	1404	GMP		7	
POTASSIUM ALGINATE	402	6000		7	
POTASSIUM DIHYDROGEN CITRATE	332(i)	GMP	261	Adopte d	2013
POTASSIUM LACTATE	326	GMP	261	Adopte d	2013
POWDERED CELLULOSE	460(ii)	GMP		7	
PROPYLENE GLYCOL ALGINATE	405	3000		7	
SALTS OF MYRISTIC, PALMITIC AND STEARIC ACIDS WITH AMMONIA, CALCIUM, POTASSIUM AND SODIUM	470(i)	GMP		7	
SALTS OF OLEIC ACID WITH CALCIUM, POTASSIUM AND SODIUM	470(ii)	GMP		7	
SODIUM ALGINATE	401	6000		7	
SODIUM CARBOXYMETHYL	466	2000		7	
CELLULOSE (CELLULOSE GUM)					
SODIUM DIHYDROGEN CITRATE	331(i)	GMP	261	Adopte d	2013
SODIUM LACTATE	325	GMP	261	Adopte d	2013
TRAGACANTH GUM	413	GMP		7	
TRIPOTASSIUM CITRATE	332(ii)	GMP	261	Adopte d	2013
TRISODIUM CITRATE	331(iii)	GMP	261	Adopte d	2013
XANTHAN GUM	415	3000		7	
			1	<u> </u>	1

Food Category No. 01.1.2 (Dairy-based drinks, flavoured and/or fermented (e.g., chocolate milk, cocoa, eggnog,					
drinking yoghurt, whey-based drinks) Additive	INS	Max Level (mg/kg)	Notes	Step	Year
ACESULFAME POTASSIUM	950	350	161 & 188	Adopted	2007
ALITAME	956	100	161	Adopted	2007
ALLURA RED AC	129	300	52 & 161	Adopted	2009
AMARANTH	123	300	52	7	
ANNATTO EXTRACTS, BIXIN-BASED	160b(i)	20	8 & 52	4	
ANNATTO EXTRACTS, NORBIXIN- BASED	160b(ii)	20	52 & 185	4	
ASPARTAME	951	600	161 & 191	Adopted	2007
ASPARTAME-ACESULFAME SALT	962	350	113 & 161	Adopted	2009
AZORUBINE (CARMOISINE)	122	150	52	7	
BRILLIANT BLACK (BLACK PN)	151	150	52	7	
BRILLIANT BLUE FCF	133	150	52	Adopted	2008
BROWN HT	155	150	52	7	
CANTHAXANTHIN	161g	15	52 & 170	Adopted	2011

CARAMEL II. SULFITE CARAMEL  CARAMEL II. AMMONIA CARAMEL  CARAMEL IV SULFITE AMMONIA  CARAMEL IV SULFITE AMMONIA  CARAMEL IV SULFITE AMMONIA  CARAMEL IV SULFITE AMMONIA  CARAMEL  CARMINES  120  150  52  Adopted  2000  52  Adopted  2010  CARAMEL IV SULFITE AMMONIA  CARAMEL  CARMINES  120  150  52  Adopted  2008  CAROTENOIDS  1608(i), a(iii), e,f  150  52  Adopted  2008  CHLOROPHYLLIS AND  141(i), (iii)  50  52  Adopted  2008  CHLOROPHYLLIS AND  CHLOROPHYLLINS, COPPER  COMPLEXES  COMPLEXES  COURCUMIN  100(i)  150  52  7  CYCLAMATES  952(i), (ii), (iv)  250  17 & 161  Adopted  2009  CYCLAMATES  952(i), (ii), (iv)  250  17 & 161  Adopted  2009  ESTERS OF GLYCEROL  DIOCTYL SODIUM SULFOSUCCINATE  480  25  19  7  CHLOROPHYLLIAL  ALIAMEL IV. AMMONIA  CARAMEL IV. AMMONIA  COLOR AMMONIA  COLOR AMMONIA  CARAMEL IV. AMONIA  CARAMEL IV. AMON	drinking yoghurt, whey-based drinks) Additive	INS	Max Level (mg/kg)	Notes	Step	Year
CARAMEL III - AMMONIA CARAMEL CARAMEL IV - SULFITE AMMONIA CARAMEL CARAMEL CARMINES 120 150 52 Adopted 2010 CARAMEL CARMINES 120 150 52 Adopted 2011 CARAMEL CARMINES 120 150 52 Adopted 2010 CAROTIENES, BETA-, VEGETABLE 160a(ii), ef 150 52 Adopted 2008 CAROTIENES, BETA-, VEGETABLE 160a(ii), ef 150 52 Adopted 2009 CAROTIENES, BETA-, VEGETABLE 160a(ii), ef 150 52 Adopted 2009 CHLOROPHYLLIS AND 141(i), (ii) 50 52 Adopted 2009 CHLOROPHYLLINS, COPPER COMPLEXES CURCUMIN 100(i) 150 52 7 CYCLAMATES 952(i), (ii), (iv) 250 17 & 161 Adopted 2007 CYCLAMATES 952(i), (iii), (iv) 250 17 & 161 Adopted 2007 CYCLAMATES 952(i), (iii), (iv) 250 17 & 161 Adopted 2007 CYCLAMATES 952(i), (iii), (iv) 250 17 & 161 Adopted 2008 CHOROTYL SODIUM SULFOSUCCINATE 480 25 19 7 FAST GREEN FCF 143 100 52 Adopted 2008 CAROTIENES, CAROTIENES 163(ii) 150 52 Adopted 2008 CAROTIENES, CAROTIENES 163(ii) 150 52 Adopted 2008 CAROTIENES, CAROTIENES 172(iii) 150 52 Adopted 2008 CAROTIENES, CAROTIENES 172(iii) 150 52 Adopted 2008 CAROTIENES 172(iii) 150 52 Adopted 2008 CAROTIENES 172(iii) 150 52 Adopted 2008 CAROTIENES 172(iii) 172 CAROTIENES 172(iii) 173 CAROTIENES 172(iii) 173 CAROTIENES 172(iii) 174 CAROTIENES 174 CAROTIENES 174 CAROTIENES 175 C	CARAMEL II - SULFITE CARAMEL	150b		52	4	
CARAMEL IV - SULFITE AMMONIA CARAMBEL I 120 CARAMINES 120 CAROTENES, BETA-, VEGETABLE 160a(ii) 1000 52 Adopted 2008 CAROTENES, BETA-, VEGETABLE 160a(ii) 1000 52 Adopted 2008 CAROTENIOIS 160a(i),a(iii),e,f 150 52 Adopted 2008 CHLOROPHYLLIS AND 141(i),(ii) 50 52 & 190 Adopted 2009 CHLOROPHYLLIS AND CHLOROPHYLLIS AND CHLOROPHYLLIS AND CURCUMIN 100(i) 150 52 7 CYCLAMATES 952(0), (ii), (iv) 250 17 & 161 Adopted 2007 CYCLAMATES 952(0), (ii), (iv) 250 17 & 161 Adopted 2007 CYCLAMATES 952(0), (ii), (iv) 250 17 & 161 Adopted 2007 CYCLAMATES 952(0), (ii), (iv) 250 17 & 161 Adopted 2007 CYCLAMATES 952(0), (ii), (iv) 250 17 & 161 Adopted 2007 CYCLAMATES 952(0), (ii), (iv) 250 17 & 161 Adopted 2007 CYCLAMATES 952(0), (ii), (iv) 250 17 & 161 Adopted 2007 CYCLAMATES 952(0), (ii), (iv) 250 17 & 161 Adopted 2007 CYCLAMATES 952(0), (ii), (iv) 250 17 & 161 Adopted 2007 CYCLAMATES 952(0), (iii), (iv) 251 Adopted 2007 CYCLAMATES 952(0), (iii), (iv) 251 Adopted 2007 CYCLAMATES 952(0), (iii), (iv) 251 Adopted 2007 CYCLAMATES 952(0), (iii) 150 52 7 CYCLAMATES 952(0), (iii), (iv) 250 17 & 161 Adopted 2007 CARAMELIVIA 150 52 Adopted 2007 CARAMELIVIA 150 52 Adopted 2008 CAROTENIA 150 150 150 150 150 150 150 150 150 150				52	Adopted	2009
CAROTENES, BETA, VEGETABLE	CARAMEL IV - SULFITE AMMONIA					2011
CAROTENES, BETA, VEGETABLE	CARMINES	120	150	52	Adopted	2008
CAROTENOIDS			1000	52		2008
CHLOROPHYLLIAN, COPPER COMPLEXES  CURCUMIN  100(i)  150  52  7  CVCLAMATES  952(i), (ii), (iv)  250  17 & 161  Adopted  2007  CVCLAMATES  952(i), (iii), (iv)  250  17 & 161  Adopted  2007  Adopted  2007  DIACETYLTARTARIC AND FATTY ACID  ESTERS OF GLYCEROL  DIOCTYL SODIUM SULFOSUCCINATE  480  25  19  7  FAST GREEN FCF  143  100  52  Adopted  2008  FAST GREEN FCF  1433  100  52  Adopted  2008  GRAPE SKIN EXTRACT  163(ii)  150  52  Adopted  2008  GRAPE SKIN EXTRACT  163(iii)  150  52  Adopted  2008  IRON OXIDES  172(i)-(iii)  20  52  Adopted  2008  INON OXIDES  172(i)-(iii)  20  52  Adopted  2008  INON OXIDES  172(i)-(iii)  20  52  Adopted  2008  FAST GREEN FCF  AMALTOL  636  200  7  NEOTAME  961  201  161  Adopted  2007  NISIN  234  12.5  28 & 233  Adopted  2017  NISIN  234  105  340(i)-(iii); 341(i)-(iii); 341(i)-(iii); 342(i)-(iii); 343(i)-(iii); 343(i)-(iii						
CYCLAMATES         952(i), (ii), (iv)         250         17 & 161         Adopted         2007           DIACETYLTARTARIC AND FATTY ACID         472e         5000         8000         400pted         2005           ESTERS OF GLYCEROL         472e         5000         5000         7           ESTERS OF GLYCEROL         480         25         19         7           FAST GREEN FCF         143         100         52         Adopted         2008           GRAPE SKIN EXTRACT         163(ii)         150         52 & 181         Adopted         2009           IRON OXIDES         172(i)-(iii)         20         52         Adopted         2009           IRON OXIDES         172(i)-(iii)         20         52         Adopted         2009           IROTAME         961         20         52         Adopted         2008           INSIN         234         12.5         28 & 233         3           PHOSPHATES         338; 339(i)-(iii); 343(i)-(iii); 343(i	CHLOROPHYLLINS, COPPER COMPLEXES	141(i),(ii)	50	52 & 190	Adopted	2009
DIACETYLTARTARIC AND FATTY ACID   472e   5000   Adopted   2005						
ESTERS OF GLYCEROL		952(i), (ii), (iv)	250	17 & 161	Adopted	2007
ETHYL MALTOL		472e	5000		Adopted	2005
FAST GREEN FCF 143 100 52 Adopted 2008 GRAPE SKIN EXTRACT 163(ii) 150 52 & 181 Adopted 2009 in DigoTine (inDigoTine) 132 300 52 Adopted 2009 in DigoTine (inDigoTine) 20 in DigoTine 20 in DigoTine 20 in DigoT	DIOCTYL SODIUM SULFOSUCCINATE	480	25	19		
GRAPE SKIN EXTRACT		637	200			
INDIGOTINE (INDIGO CARMINE)	FAST GREEN FCF	143	100	52	Adopted	2008
IRON OXIDES	GRAPE SKIN EXTRACT	163(ii)	150	52 & 181	Adopted	2009
LUTEIN FROM TAGETES ERECTA	INDIGOTINE (INDIGO CARMINE)	132	300	52	Adopted	2009
MALTOL   636   200   7     NEOTAME   961   20   161   Adopted   2007     NISIN   234   12.5   28 & 233   3     PHOSPHATES   338; 339(i)-(iii); 341(i)-(iii); 342(i),(ii); 342(i),(iii); 342(i),(iii); 451(i),(iii); 452(i)-(v); 542     POLYGLYCEROL ESTERS OF FATTY   475   5000   7     ACIDS   7   Adopted   2008     PONCEAU 4R (COCHINEAL RED A)   124   150   52 & 161   Adopted   2008     PROPYLENE GLYCOL ALGINATE   405   10000   4     PROPYLENE GLYCOL ESTERS OF   477   5000   Adopted   2001     FATTY ACIDS   407   407   407   407     OUINOLINE YELLOW   104   150   52   Adopted   2008     ACCHARINS   101(i),(ii)   300   52   Adopted   2013     SORBATES   200-203   1000   42 & 220   Adopted   2013     SORBATES   960   200   26 & 201   Adopted   2013     SORBITAN ESTERS OF FATTY ACIDS   491-495   5000   7     STEAROYL LACTYLATES   481(i), 482(i)   5000   7     STEVIOL GLYCOSIDES   960   200   26 & 201   Adopted   2007     SUCROGLYCERIDES   474   5000   Adopted   2007     SUCROGLYCERIDES   474   5000   Adopted   2008     SUNSET YELLOW FCF   110   300   52   Adopted   2008     TARTRAZINE   102   300   52	IRON OXIDES	172(i)-(iii)	20	52	Adopted	2008
NEOTAME	LUTEIN FROM TAGETES ERECTA		100	52	4	
NISIN	MALTOL	636	200		7	
NISIN	NEOTAME	961	20	161	Adopted	2007
PHOSPHATES	NISIN	234	12.5	28 & 233		
POLYGLYCEROL ESTERS OF FATTY ACIDS	PHOSPHATES	340(i)-(iii); 341(i)- (iii); 342(i),(ii); 343(i)-(iii); 450(i)- (iii),(v)-(vii); 451(i),(ii); 452(i)-	1320	33	Adopted	2012
PONCEAU 4R (COCHINEAL RED A)         124         150         52 & 161         Adopted         2008           PROPYLENE GLYCOL ALGINATE         405         10000         4           PROPYLENE GLYCOL ESTERS OF FATTY ACIDS         477         5000         Adopted         2001           FATTY ACIDS         104         150         52         7           RIBOFLAVINS         101(i),(ii)         300         52         Adopted         2008           SACCHARINS         954(i)-(iv)         80         161         Adopted         2007           SODIUM ALUMINOSILICATE         554         60         6 & 253         Adopted         2013           SORBATES         200-203         1000         42 & 220         Adopted         2012           SORBITAN ESTERS OF FATTY ACIDS         491-495         5000         7         T           STEAROYL LACTYLATES         481(i), 482(i)         5000         7         T           STEVIOL GLYCOSIDES         960         200         26 & 201         Adopted         2011           SUCRALOSE         955         300         161         Adopted         2007           SUCROSE ESTERS OF FATTY ACIDS         473         5000         7           SUCR		475	5000		7	
PROPYLENE GLYCOL ALGINATE         405         10000         4           PROPYLENE GLYCOL ESTERS OF FATTY ACIDS         477         5000         Adopted         2001           QUINOLINE YELLOW         104         150         52         7           RIBOFLAVINS         101(i),(ii)         300         52         Adopted         2008           SACCHARINS         954(i)-(iv)         80         161         Adopted         2007           SODIUM ALUMINOSILICATE         554         60         6 & 253         Adopted         2013           SORBATES         200-203         1000         42 & 220         Adopted         2012           SORBITAN ESTERS OF FATTY ACIDS         491-495         5000         7           STEAROYL LACTYLATES         481(i), 482(i)         5000         7           STEVIOL GLYCOSIDES         960         200         26 & 201         Adopted         2011           SUCRALOSE         955         300         161         Adopted         2007           (TRICHLOROGALACTOSUCROSE)         955         300         Adopted         2007           SUCROSE ESTERS OF FATTY ACIDS         473         5000         7           SUNSET YELLOW FCF         110         300	POLYSORBATES	432-436	3000		Adopted	2008
PROPYLENE GLYCOL ESTERS OF FATTY ACIDS         477         5000         Adopted         2001           QUINOLINE YELLOW         104         150         52         7           RIBOFLAVINS         101(i),(ii)         300         52         Adopted         2008           SACCHARINS         954(i)-(iv)         80         161         Adopted         2007           SODIUM ALUMINOSILICATE         554         60         6 & 253         Adopted         2013           SORBATES         200-203         1000         42 & 220         Adopted         2012           SORBITAN ESTERS OF FATTY ACIDS         491-495         5000         7         T           STEAROYL LACTYLATES         481(i), 482(i)         5000         7         T           STEVIOL GLYCOSIDES         960         200         26 & 201         Adopted         2011           SUCRALOSE         955         300         161         Adopted         2007           (TRICHLOROGALACTOSUCROSE)         474         5000         Adopted         2009           SUCROSE ESTERS OF FATTY ACIDS         473         5000         7           SUNSET YELLOW FCF         110         300         52         Adopted         2008	PONCEAU 4R (COCHINEAL RED A)	124	150	52 & 161	Adopted	2008
Color	PROPYLENE GLYCOL ALGINATE	405	10000		4	
QUINOLINE YELLOW         104         150         52         7           RIBOFLAVINS         101(i),(ii)         300         52         Adopted         2008           SACCHARINS         954(i)-(iv)         80         161         Adopted         2007           SODIUM ALUMINOSILICATE         554         60         6 & 253         Adopted         2013           SORBATES         200-203         1000         42 & 220         Adopted         2012           SORBITAN ESTERS OF FATTY ACIDS         491-495         5000         7           STEAROYL LACTYLATES         481(i), 482(i)         5000         7           STEVIOL GLYCOSIDES         960         200         26 & 201         Adopted         2011           SUCRALOSE         955         300         161         Adopted         2007           (TRICHLOROGALACTOSUCROSE)         955         300         161         Adopted         2009           SUCROSE ESTERS OF FATTY ACIDS         473         5000         7           SUNSET YELLOW FCF         110         300         52         Adopted         2008           TARTRAZINE         102         300         52         7		477	5000		Adopted	2001
SACCHARINS         954(i)-(iv)         80         161         Adopted         2007           SODIUM ALUMINOSILICATE         554         60         6 & 253         Adopted         2013           SORBATES         200-203         1000         42 & 220         Adopted         2012           SORBITAN ESTERS OF FATTY ACIDS         491-495         5000         7           STEAROYL LACTYLATES         481(i), 482(i)         5000         7           STEVIOL GLYCOSIDES         960         200         26 & 201         Adopted         2011           SUCRALOSE (TRICHLOROGALACTOSUCROSE)         955         300         161         Adopted         2007           SUCROGLYCERIDES         474         5000         Adopted         2009           SUCROSE ESTERS OF FATTY ACIDS         473         5000         7           SUNSET YELLOW FCF         110         300         52         Adopted         2008           TARTRAZINE         102         300         52         7		104	150	52	7	
SACCHARINS         954(i)-(iv)         80         161         Adopted         2007           SODIUM ALUMINOSILICATE         554         60         6 & 253         Adopted         2013           SORBATES         200-203         1000         42 & 220         Adopted         2012           SORBITAN ESTERS OF FATTY ACIDS         491-495         5000         7           STEAROYL LACTYLATES         481(i), 482(i)         5000         7           STEVIOL GLYCOSIDES         960         200         26 & 201         Adopted         2011           SUCRALOSE (TRICHLOROGALACTOSUCROSE)         955         300         161         Adopted         2007           SUCROGLYCERIDES         474         5000         Adopted         2009           SUCROSE ESTERS OF FATTY ACIDS         473         5000         7           SUNSET YELLOW FCF         110         300         52         Adopted         2008           TARTRAZINE         102         300         52         7	RIBOFLAVINS				Adopted	2008
SODIUM ALUMINOSILICATE         554         60         6 & 253         Adopted         2013           SORBATES         200-203         1000         42 & 220         Adopted         2012           SORBITAN ESTERS OF FATTY ACIDS         491-495         5000         7           STEAROYL LACTYLATES         481(i), 482(i)         5000         7           STEVIOL GLYCOSIDES         960         200         26 & 201         Adopted         2011           SUCRALOSE (TRICHLOROGALACTOSUCROSE)         955         300         161         Adopted         2007           SUCROGLYCERIDES         474         5000         Adopted         2009           SUCROSE ESTERS OF FATTY ACIDS         473         5000         7           SUNSET YELLOW FCF         110         300         52         Adopted         2008           TARTRAZINE         102         300         52         7	SACCHARINS					2007
SORBATES         200-203         1000         42 & 220         Adopted         2012           SORBITAN ESTERS OF FATTY ACIDS         491-495         5000         7           STEAROYL LACTYLATES         481(i), 482(i)         5000         7           STEVIOL GLYCOSIDES         960         200         26 & 201         Adopted         2011           SUCRALOSE (TRICHLOROGALACTOSUCROSE)         955         300         161         Adopted         2007           SUCROGLYCERIDES         474         5000         Adopted         2009           SUCROSE ESTERS OF FATTY ACIDS         473         5000         7           SUNSET YELLOW FCF         110         300         52         Adopted         2008           TARTRAZINE         102         300         52         7	SODIUM ALUMINOSILICATE	554	60	6 & 253	Adopted	2013
SORBITAN ESTERS OF FATTY ACIDS         491-495         5000         7           STEAROYL LACTYLATES         481(i), 482(i)         5000         7           STEVIOL GLYCOSIDES         960         200         26 & 201         Adopted         2011           SUCRALOSE (TRICHLOROGALACTOSUCROSE)         955         300         161         Adopted         2007           SUCROGLYCERIDES         474         5000         Adopted         2009           SUCROSE ESTERS OF FATTY ACIDS         473         5000         7           SUNSET YELLOW FCF         110         300         52         Adopted         2008           TARTRAZINE         102         300         52         7						2012
STEAROYL LACTYLATES         481(i), 482(i)         5000         7           STEVIOL GLYCOSIDES         960         200         26 & 201         Adopted         2011           SUCRALOSE (TRICHLOROGALACTOSUCROSE)         955         300         161         Adopted         2007           SUCROGLYCERIDES         474         5000         Adopted         2009           SUCROSE ESTERS OF FATTY ACIDS         473         5000         7           SUNSET YELLOW FCF         110         300         52         Adopted         2008           TARTRAZINE         102         300         52         7					· ·	
STEVIOL GLYCOSIDES         960         200         26 & 201         Adopted         2011           SUCRALOSE (TRICHLOROGALACTOSUCROSE)         955         300         161         Adopted         2007           SUCROGLYCERIDES SUCROSE ESTERS OF FATTY ACIDS         474         5000         Adopted         2009           SUNSET YELLOW FCF         110         300         52         Adopted         2008           TARTRAZINE         102         300         52         7					7	
SUCRALOSE (TRICHLOROGALACTOSUCROSE)         955         300         161         Adopted         2007           SUCROGLYCERIDES SUCROSE ESTERS OF FATTY ACIDS         474         5000         Adopted         2009           SUNSET YELLOW FCF         110         300         52         Adopted         2008           TARTRAZINE         102         300         52         7				26 & 201	Adopted	2011
SUCROGLYCERIDES         474         5000         Adopted         2009           SUCROSE ESTERS OF FATTY ACIDS         473         5000         7           SUNSET YELLOW FCF         110         300         52         Adopted         2008           TARTRAZINE         102         300         52         7		955				2007
SUCROSE ESTERS OF FATTY ACIDS         473         5000         7           SUNSET YELLOW FCF         110         300         52         Adopted 2008           TARTRAZINE         102         300         52         7		474	5000		Adopted	2009
SUNSET YELLOW FCF         110         300         52         Adopted         2008           TARTRAZINE         102         300         52         7						
TARTRAZINE 102 300 52 7				52	-	2008
	ZEAXANTHIN, SYNTHETIC	161h(i)	100	52	4	

# Notes to the General Standard for Food Additives

Note 6: As aluminium.
Note 8: As bixin.

Note 17: As cyclamic acid.

Note 19: Used in cocoa fat; use level on ready-to-eat basis.

Note 26: As steviol equivalents.

Note 28:	ADI conversion: if a typical preparation contains 0.025 $\mu$ g/U, then the ADI of 33 000 U/kg bw becomes: [(33 000 U/kg bw) x (0.025 $\mu$ g/U) x (1 mg/1 000 $\mu$ g)] = 0.825 mg/kg bw
Note 33:	As phosphorus.
Note 42:	As sorbic acid.
Note 52:	Excluding chocolate milk.
Note 59:	Use as packaging gas.
Note 113:	Use level reported as acesulfame potassium equivalents (the reported maximum level can be converted to an aspartame-acesulfame salt basis by dividing by 0.44). Combined use of aspartame-acesulfame salt with individual acesulfame potassium or aspartame should not exceed the individual maximum levels for acesulfame potassium or aspartame (the reported maximum level can be converted to aspartame equivalents by dividing by 0.68).
Note 161:	Subject to national legislation of the importing country aimed, in particular, at consistency with Section 3.2 of the Preamble.
Note 170:	Excluding products conforming to the Standard for Fermented Milks (CODEX STAN 243-2003).
Note 181:	Expressed as anthocyanin.
Note 185:	As norbixin.
Note 188:	Not to exceed the maximum use level for acesulfame potassium (INS 950) singly or in combination with aspartame-acesulfame salt (INS 962).
Note 190:	Except for use in fermented milk drinks at 500 mg/kg.
Note 191:	Not to exceed the maximum use level for aspartame (INS 951) singly or in combination with aspartame-acesulfame salt (INS 962).
Note 201:	For use in flavoured products only.
Note 220:	For use in flavoured products heat treated after fermentation only.
Note 227:	For use in sterilized and UHT treated milks only.
Note 233:	As nisin.
Note 253:	For use in dry mix hot chocolate only.
Note 261:	For use in heat-treated buttermilk only.

i REP 13/FA para77