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ANNEX

UNION LIST OF NOVEL FOODS

Content of the list

- 1. The Union list shall consist of Tables 1 and 2.
- 2. Table 1 includes the authorised novel foods and contains the following information:
 - Column 1: Authorised novel food
 - Column 2: Conditions under which the novel food may be used. This column is further subdivided into two: Specified food category and Maximum levels
 - Column 3: Additional specific labelling requirements
 - Column 4: Other requirements
- 3. Table 2 includes the specifications on novel foods and contains the following information:
 - Column 1: Authorised novel food
 - Column 2: Specifications

Table 1: Authorised novel foods

Authorised novel food	Conditions under which t	he novel food may be used	Additional specific labelling requirements	Other requirements
Adansonia digitata (Baobab) dried fruit pulp	Not specified		The designation of the novel food on the labelling of the foodstuffs containing it shall be "Baobab fruit pulp"	
	Specified food category	Maximum levels		
Ajuga reptans extract	Food Supplements as defined in Directive 2002/46/EC	In line with normal use in food supplements of a similar extract of the flowering aerial parts of <i>Ajuga reptans</i>		
	Specified food category	Maximum levels		
	Food Supplements as defined in Directive 2002/46/EC			
L-Alanyl-L- Glutamine	Foods for special medical purposes as defined in Regulation (EU) No 609/2013 excluding foods for infants and young children			
	Specified food category	Maximum levels of DHA		
Algal oil from the	Bakery products (breads and bread rolls)	200 mg/100 g	The designation of the novel food on the	
microalgae <i>Ulkenia</i> sp.	Cereal bars	500 mg/100 g	labelling of the foodstuffs containing it shall be "Oil from the micro-algae <i>Ulkenia</i> "	
	Non-alcoholic beverages (including milk based beverages)	60 mg/100 ml	sp."	

	Specified food category	Maximum levels	The designation of the novel food on the	
Allanblackia seed oil	Yellow fat spreads and cream based spreads		labelling of the foodstuffs containing it shall be "Allanblackia seed oil'	
	Specified food category	Maximum levels		
Aloe macroclada Baker leaf extract	Food Supplements as defined in Directive 2002/46/EC	In line with normal use in food supplements of the similar gel derived <i>from Aloe vera</i> (L.) Burm.		
	Specified food category	Maximum levels of combined DHA and EPA		
	Dairy products except milk- based drinks	200 mg/100 g or for cheese products 600 mg/100 g		
	Dairy analogues except drinks	200 mg/100 g or for analogues to cheese products 600 mg/100 g		All food products containing DHA-
Antartic Krill oil from <i>Euphasia</i>	Non-alcoholic beverages Milk-based drinks Dairy analogue drinks	80 mg/100 ml	The designation of the novel food on the labelling of the foodstuffs containing it	and EPA-rich oil from Antarctic Krill should demonstrate oxidative stability by
superba	Spreadable fat and dressings	600 mg/100 g	shall be "Lipid extract from the crustacean Antarctic Krill (<i>Euphausia superba</i>)"	appropriate and
	Cooking fats	360 mg/100 ml	Timache ixim (Euphausia superou)	recognised national/internationa
	Breakfast cereals	500 mg/100 g		1 test methodology
	Bakery products (bread and rolls)	200 mg/100 g		(e.g. AOAC)
	Nutrition bars/cereal bars	500 mg/100 g		
	Food Supplements as defined in Directive 2002/46/EC	3000 mg/day for the general population		
		450 mg/day for pregnant and		

		lactating women			
	Foods for special medical purposes as defined in Regulation (EU) No 609/2013	In accordance with the particular nutritional requirements of the persons for whom the products are intended			
	Total diet replacement for weight control as defined in Regulation (EU) No 609/2013 and meal replacements for weight control	250 mg/meal			
	Processed cereal-based food and baby food intended for infants and young children covered by Regulation (EU) No 609/2013				
	Foods intended to meet the expenditure of intense muscular effort, especially for sportsmen 200 mg/100 ml	200 mg/100 ml			
	Foods bearing statements on the absence or reduced presence of gluten in accordance with the requirements of Commission Implementing Regulation (EU) No 828/2014				
Antartic Krill oil	Specified food category	Maximum levels of combined	The designation of the novel food on the	All	food

rich in		DHA and EPA	labelling of the foodstuffs containing it	containing DHA-
phospholipids from Euphasia superba	Dairy products except milk- based drinks	200 mg/100 g or for cheese products 600 mg/100 g	shall be "Lipid extract from the crustacean Antarctic Krill (<i>Euphausia superba</i>)"	and EPA-rich oil from Antarctic Krill should demonstrate
	Dairy analogues except drinks	200 mg/100 g or for analogues to cheese products 600 mg/100 g		oxidative stability by appropriate and recognised
	Non-alcoholic beverages Milk-based drinks Dairy analogue drinks	80 mg/100 ml		national/internationa l test methodology (e.g. AOAC)
	Spreadable fat and dressings	600 mg/100 g		
	Cooking fats	360 mg/100 ml		
	Breakfast cereals	500 mg/100 g		
	Bakery products (bread and rolls)	200 mg/100 g		
	Nutrition bars/cereal bars	500 mg/100 g		
	Food Supplements as defined in Directive 2002/46/EC	3000 mg/day for the general population 450 mg/day for pregnant and lactating women		
	Foods for special medical purposes as defined in Regulation (EU) No 609/2013	In accordance with the particular nutritional requirements of the persons for whom the products are intended		
	Total diet replacement for weight as defined in Regulation (EU) No 609/2013	250 mg/meal		

	and meal replacements for weight control			
	Processed cereal-based food and baby food intended for infants and young children covered by Regulation (EU) No 609/2013			
	Foods intended to meet the expenditure of intense muscular effort, especially for sportsmen	200 mg/100 ml		
	Foods bearing statements on the absence or reduced presence of gluten in accordance with the requirements of Commission Implementing Regulation (EU) No 828/2014			
	Specified food category	Maximum levels		
Arachidonic acid- rich oil from the	Infant formula–and follow-on formula as defined in Regulation (EU) No 609/2013	In accordance with Regulation (EU) No 609/2013	The designation of the novel food on the labelling of the foodstuffs containing it	
fungus Mortierella alpina	Foods for special medical purposes for premature infants as defined in Regulation (EU) No 609/2013	In accordance with Regulation (EU) No 609/2013	shall be "Oil from Mortierella alpina" or "Mortierella alpina oil"	
Argan oil from	Specified food category	Maximum levels	The designation of the novel food on the	
Argania spinose	As seasonings	Not specified	labelling of the foodstuffs containing it	

	Food Supplements as defined in Directive 2002/46/EC	In line with normal food use of a vegetable oils	shall be "Argan oil" and if used as seasoning "Vegetable oil only for seasoning" shall be mentioned on the label	
Astaxanthin from	Specified food category	Maximum levels	The designation of the novel on the	
Haematococcus pluvialis algae	Food Supplements as defined in Directive 2002/46/EC	2.4 mg/day	labelling of the Food stuff containing it shall be "Astaxanthin"	
	Specified food category	Maximum levels		The final product is
Basil seeds (Ocimum basilicum)	Beverages based on fruit juice and fruit juice blends	3 g/200 mL for addition of whole basil seeds (<i>Ocimum basilicum</i>)		sold in transparent containers so that Basil seed is visible to consumers
Fermented black bean extract	Specified food category	Maximum levels	The designation of the novel food on the	
	Food Supplements as defined in Directive 2002/46/EC	4.5 g/day	labelling of the foodstuffs containing it shall be "Fermented black bean (Soya) extract" or "Fermented Soya extract"	
	Specified food category	Maximum levels		
	Infant formula and follow-on formula as defined in Regulation (EU) No 609/2013 (ready to drink)	100 mg/100 ml		
Bovine lactoferrin	Foods on dairy basis intended for young children (ready to eat/drink)	200 mg/100 g	The designation of the novel food on the labelling of the foodstuffs containing it shall be "Lactoferrin from cows' milk"	
	Processed cereal food (solid)	670 mg/100 g		
	Foods for special medical purposes as defined in Regulation (EU) No 609/2013	Depending on the needs of the individual up to 3 g/day		
	Beverages based on milk	200 mg/100 g		

	Powdered drink mixes based on milk (ready to drink)	330 mg/100 g		
	Beverages based on fermented milk (including yoghurt drinks)	50 mg/100 g		
	Non-alcoholic drinks	120 mg/100 g		
	Products based on yoghurt	80 mg/100 g		
	Products based on cheese	2000 mg/100 g		
	Ice cream	130 mg/100 g		
	Cakes and pastries	1000 mg/100 g		
	Candies	750 mg/100 g		
	Chewing gum	3000 mg/100 g		
	Specified food category	Maximum levels of stearidonic acid (STA)		
	Dairy products and analogues	250 mg/100 g		
	Dairy products and analogues	75 mg/100 g for drinks		
	Cheese and cheese products	750 mg/100 g		
Buglossoides arvensis seed oil	Butter and other fat and oil emulsions including spreads (not for cooking or frying purposes)	750 mg/100 g	The designation of the novel food on the labelling of the foodstuffs containing it shall be "Refined <i>Buglossoides</i> oil'	
	Breakfast cereals	625 mg/100 g		
	Food supplements as defined in Directive 2002/46/EC, excluding food supplements for infants and young children	500 mg/day		

	Foods for special medical purposes as defined in Regulation (EU) No 609/2013, excluding foods for special medical purposes intended for infants and young children	In accordance with the particular nutritional requirements of the persons for whom the products are intended		
	Total diet replacement for weight control as defined in Regulation (EU) No 609/2013 and meal replacements for weight control	250 mg/meal		
Chewing gum base (monomethoxypolye thylene glycol)	Specified food category	Maximum levels	The designation of the novel food on the	
	Chewing gum	8%	labelling of the foodstuffs containing it shall be "Gum base (including 1,3-butadiene, 2-methyl-homopolymer, maleated, esters with polyethylene glycol mono-Me ether)" or "Gum base (including CAS No: 1246080-53-4)"	
Chewing gum base	Specified food category	Maximum levels	The designation of the novel food on the labelling of the foodstuffs containing it	
(Methyl vinyl ether- maleic anhydride copolymer)	Chewing gum	2%	shall be "Gum base (including methyl vinyl ether-maleic anhydride copolymer)" or "Gum base (including CAS No 9011-16-9)"	
	Specified food category	Maximum levels		
Chia oil from <i>Salvia</i>	Fats and oils	10%	The designation of the novel food on the	
hispanica	Pure chia oil	2 g/day	labelling of the foodstuffs containing it	
	Food Supplements as defined in Directive 2002/46/EC	2 g/day	shall be "Chia oil (Salvia hispanica)"	

	Specified food category	Maximum levels	
Chia seeds (Salvia	Bread products	5% (whole or ground chia seeds)	1. The designation of the novel food on the labelling of the foodstuffs
	Baked products	10% whole chia seeds	containing it shall be "Chia (Salvia Juice blends: The
	Breakfast cereals	10% whole chia seeds	hispanica) seeds" final product is sold in transparent
hispanica)	Fruit, nut and seed mixes	10% whole chia seeds	2. Additional labelling of pre-packaged containers so that
	Beverages based on fruit juice and fruit juice blends	15 g/450 ml for addition of whole, mashed or ground chia seeds	Chia (Salvia hispanica) seed is required to inform the consumer that the daily intake is no more than 15 g. Chia seed is visible to consumers
	Pre-packaged Chia seed as such	15 g/day whole chia seeds	
	Specified food category	Maximum levels	The designation of the novel food on the
Chitin-glucan from Aspergillus niger	Food Supplements as defined in Directive 2002/46/EC	5 g/day	labelling of the foodstuffs containing it shall be "Chitin-glucan from Aspergillus niger"
Chitin-glucan	Specified food category	Maximum levels	The designation of the novel food on the
complex from Fomes fomentarius	Food Supplements as defined in Directive 2002/46/EC	5 g/day	labelling of the foodstuffs containing it shall be "Chitin-glucan from Fomes fomentarius"
Chitosan extract	Specified food category	Maximum levels	The designation of the novel food on the
from fungi (Agaricus bisporus; Aspergillus niger)	Food Supplements as defined in Directive 2002/46/EC	In line with normal use in food supplements of chitosan from crustaceans	labelling of the foodstuffs containing it shall be "Chitosan extract from Agaricus bisporus" or "Chitosan extract from Aspergillus niger"
Chromium Picolinate	Specified food category	Maximum levels of total chromium	The designation of the novel food on the labelling of the foodstuffs containing it

	Foods covered by Regulation (EU) No 609/2013	shall b	shall be "Chromium Picolinate"	
	Milk-based drinks and similar products intended for young children			
	Meal replacement for weight control			
	Foods intended to meet the expenditure of intense muscular effort, especially for sportsmen	250 μg/day		
	Foods bearing statements on the absence or reduced presence of gluten in accordance with the requirements of Commission Implementing Regulation (EU) No 828/2014			
	Specified food category	Maximum levels	1. The designation of the novel food on	
Citicoline	Food Supplements as defined in Directive 2002/46/EC	500 mg/day	the labelling of the foodstuffs containing it shall be "Citicoline"	
CHUCOMIC	Foods for special medical purposes as defined in Regulation (EU) No 609/2013	250 mg per serving and a maximum daily consumption level of 1000 mg	2. The labelling of foods containing citicoline shall bear a statement that the product is not intended to be consumed by children	
Clostridium	Specified food category	Maximum levels	The designation of the novel food on the	
butyricum (CBM 588)	Food Supplements as defined in Directive 2002/46/EC	$1,35 \times 10^8$ CFU/day	labelling of the foodstuffs containing it shall be "Clostridium butyricum MIYAIRI 588 (CBM 588)" or "Clostridium	

			butyricum (CBM 588)"	
	Specified food category	Maximum levels		
	Nutrition bars			
	Milk based beverages			
Extract of defatted cocoa powder	Any other foods (including food supplements as defined in Directive 2002/46/EC) which have become established vehicles for functional ingredients and which are typically positioned for consumption by health conscious adults		Consumers shall be instructed not to consume more than 600 mg polyphenols corresponding to 1.1 g of extract of defatted cocoa powder per day	
	Specified food category	Maximum levels	Consumers shall be instructed not to	
Low fat cocoa extract	Foods including food supplements as defined in Directive 2002/46/EC	730 mg per serving and around 1.2 g/day	consume more than 600 mg of cocoa flavanols per day	
Coriander seed oil	Specified food category	Maximum levels	The designation of the novel food on the	
from Coriandrum sativum	Food Supplements as defined in Directive 2002/46/EC	600 mg/day	labelling of the foodstuffs containing it shall be "Coriander seed oil"	
α-cyclodextrin	Not specified		The designation of the novel food on the labelling of the foodstuffs containing it shall be "Alpha-cyclodextrin' or "α-cyclodextrin"	

γ-Cyclodextrin	Not specified		The designation of the novel food on the labelling of the foodstuffs containing it shall be "Gamma-Cyclodextrin" or "γ-Cyclodextrin"	
Dextran	Specified food category	Maximum levels		
preparation produced by Leuconostoc mesenteroides	Bakery products	5%	The designation of the novel food on the labelling of the foodstuffs containing it shall be "Dextran"	
	Specified food category	Maximum levels		
	Cooking oils			
Diacylglycerol oil of	Fat spreads			
	Salad dressings		The designation of the novel food on the labelling of the foodstuffs containing it	
plant origin	Mayonnaise		shall be "Diacylglycerol oil of plant origin	
	Meal replacement for weight control (as drinks)		(at least 80 % diacylglycerols)"	
	Bakery products			
	Yoghurt type products			
	Specified food category	Maximum levels		
	Cereal bars	9 mg/100 g	1. The designation of the novel food on the labelling of the foodstuffs	
	Biscuits, cookies and crackers	9 mg/100 g	containing it shall be	
Dihydrocapsiate	Rice based snacks	12 mg/100 g	"Dihydrocapsiate"	
(DHC)	Carbonated drinks, dilutable drinks, fruit juice based drinks	1.5 mg/100 ml	2. Food supplements containing synthetic dihydrocapsiate will be labelled as "not intended for children	
	Vegetable drinks	2 mg/100 ml	up to 4.5 years"	
	Coffee based drinks, tea based	1.5 mg/100 ml		

	drinks	
	Flavoured water - still	1 mg/100 ml
	Precooked oatmeal cereal	2.5 mg/100 g
	Other cereals	4.5 mg/100 g
	Ice cream, dairy desserts	4 mg/100 g
	Pudding mixes (ready to eat)	2 mg/100 g
	Products based on yoghurt	2 mg/100 g
1	Chocolate confectionery	7.5 mg/100 g
	Hard candy	27 mg/100 g
	Sugar-free gum	115 mg/100 g
	Whitener/creamer	40 mg/100 g
	Sweeteners	200 mg/100 g
	Soup (ready to eat)	1.1 mg/100 g
	Salad dressing	16 mg/100 g
	Vegetable protein	5 mg/100 g
	Ready to eat meals	3 mg/meal
	Meal replacements for weight control	3 mg/meal
	Meal replacement for weight control (as drinks)	1 mg/100 ml
	Food Supplements as defined in Directive 2002/46/EC	3 mg/single intake 9 mg/day
	Non-alcoholic powdered drink mixes	14.5 mg/kg equivalent to 1.5 mg/100ml
Dried extract of	Food Supplements as defined	

Lippia citriodora from cell cultures	in Directive 2002/46/EC			
	Specified food category	Maximum levels		
Echinacea angustifolia extract	Food Supplements as defined in Directive 2002/46/EC	In line with normal use in food supplements of a similar extract from the root of <i>Echinacea angustifolia</i>		
	Specified food category	Maximum levels of stearidonic acid (STA)		
	Milk-based products and drinkable yoghurt products delivered in a single dose	250 mg/100 g; 75 mg/100 g for drinks		
	Cheese preparations	750 mg/100 g		
	Spreadable fat and dressings	750 mg/100 g	The designation of the novel food on the labelling of the foodstuffs containing it	
	Breakfast cereals	625 mg/100 g		
Echium plantagineum oil	Food supplements as defined in Directive 2002/46/EC	500 mg/day		
plantagineum 011	Foods for special medical purposes as defined in Regulation (EU) No 609/2013	In accordance with the particular nutritional requirements of the persons for whom the products are intended	shall be "Refined echium oil'	
	Total diet replacement for weight control as defined in Regulation (EU) No 609/2013 and meal replacements for weight control	250 mg/meal		
Epigallocatechin	Specified food category	Maximum levels	The labelling shall bear a statements that	

gallate as a purified extract from green tea leaves (Camellia sinensis)	Food Supplements as defined in Directive 2002/46/EC Foods fortified in accordance with Regulation (EC) No 1925/2006	150 mg of extract in one portion of food or food supplement	consumers should not consume more than 300 mg of extract per day	
	Specified food category	Maximum levels		
L-ergothioneine	Food supplements as defined in Directive 2002/46/EC	30 mg/day for general population (excluding pregnant and lactating women) 20 mg/day for children older than 3 years	The designation of the novel food on the labelling of the foodstuffs containing it shall be "L-ergothioneine"	
	Specified food category	Maximum levels (anhydrous EDTA)		
Ferric Sodium	Food supplements as defined in Directive 2002/46/EC	Children: 18 mg/day Adults: 75 mg/day	The designation of the novel food on the	
EDTA	Foods covered by Regulation (EU) No 609/2013		labelling of the foodstuffs containing it shall be "Ferric Sodium EDTA"	
	Foods fortified in accordance with Regulation (EC) No 1925/2006	12 mg/100 g		
	Specified food category	Maximum levels		
Ferrous ammonium phosphate	Foods including food supplements as defined in Directive 2002/46/EC	To be used in compliance with Directive 2002/46/EC, Regulation (EU) No 609/2013	The designation of the novel food on the labelling of the foodstuffs containing it shall be "Ferrous ammonium phosphate"	
	Foods covered by Regulation (EU) No 609/2013	and/or Regulation (EC) No 1925/2006	F	

	Milk-based drinks and similar products intended for young children			
	Meal replacement for weight control			
	Foods intended to meet the expenditure of intense muscular effort, especially for sportsmen			
	Foods bearing statements on the absence or reduced presence of gluten in accordance with the requirements of Commission Implementing Regulation (EU) No 828/2014			
	Specified food category	Maximum levels fish peptide product		
Fish peptides from	Foods based on yoghurt, yoghurt drinks, fermented milk products, and powdered milk	0.48 g/100 g (ready to eat/drink)	The designation of the novel food on the labelling of the foodstuffs containing it	
Sardinops sagax	Flavoured water, and vegetable-based drinks	0.3 g/100 g (ready to drink)	shall be "Fish (Sardinops sagax) peptides"	
	Breakfast cereals	2 g/100 g		
	Soups, stews and soup powders	0.3 g/100 g (ready to eat)		
Flavonoids from	Specified food category	Maximum levels of glavonoid	1. The designation of the novel food on	Beverages

Glycyrrhiza glabra	Beverages based on milk			the labelling of the foodstuffs	containing
	Beverages based on yoghurt	120 mg/day		containing it shall be "Flavonoids from <i>Glycyrrhiza glabra L</i> ."	Glavonoid shall be presented to the final
	Beverages based on fruit or vegetables	120 mg duj	2.	The labelling of the foods where the product was added as a novel food	consumer as single portions.
	Food Supplements as defined in Directive 2002/46/EC	120 mg/portion of daily consumption		ingredient shall bear a statement that: (a) the product should not be	
	Total diet replacement for weight control as defined in Regulation (EU) No 609/2013	120 mg/day		consumed by pregnant and breast feeding women, children and young adolescents; and (b) people taking prescription drugs	
	Foods for special medical purposes as defined in Regulation (EU) No 609/2013	120 mg/day	3.	should only consume the product under medical supervision; (c) a maximum of 120 mg of Glavonoid per day should be consumed. 3. The amount of Glavonoid in the final food shall be indicated on the labelling	
				of the food containing it.	
	Specified food category	Maximum levels	1.	The designation of the novel food on	
	Unflavoured pasteurised and sterilised (including UHT) milk-based products	1.2 g/l		the labelling of the foodstuffs containing it shall be "2'-O-fucosyllactose".	
2'-O-fucosyllactose	Unflavoured fermented milk-	1.2 g/l beverages	2.	containing 2'-O-fucosyllactose shall bear a statement that the supplements should not be used if other foods with added 2'-O-fucosyllactose are	
	based products	19.2 g/kg products other than beverages	bear a statement that the supplement should not be used if other foods wadded 2'-O-fucosyllactose consumed the same day.		
	Flavoured fermented milk-	1.2 g/l beverages			
	based products including heat- treated products	19.2 g/kg products other than beverages		consumed the same day. The labelling of food supplements	

Dairy analogues, including beverage whiteners	1.2 g/l beverages 12 g/kg for products other than beverages
	400 g/kg for whitener
Cereal bars	12 g/kg
Table-top sweeteners	200 g/kg
Infant formula as defined in Regulation (EU) No 609/2013	1.2 g/l alone or in combination with 0,6 g/l of lacto- <i>N</i> -neotetraose at a ratio of 2:1 in the final product ready for use, marketed as such or reconstituted as instructed by the manufacturer
Follow-on formula as defined in Regulation (EU) No 609/2013	1.2 g/l alone or in combination with 0.6 g/l of lacto- <i>N</i> -neotetraose at a ratio of 2:1 in the final product ready for use, marketed as such or reconstituted as instructed by the manufacturer
Processed cereal-based food and baby food for infants and young children as defined in Regulation (EU) No 609/2013	12 g/kg for products other than beverages 1.2 g/l for liquid food ready for use, marketed as such or reconstituted as instructed by the manufacturer
Milk-based drinks and similar products intended for young	1.2 g/l for milk-based drinks and similar products added

containing 2'-O-fucosyllactose intended for young children shall bear a statement that the supplements should not be used if breast milk or other foods with added 2'-O-fucosyllactose are consumed the same day.

children	alone or in combination with lacto- <i>N</i> -neotetraose, at concentrations 0.6 g/l, at a ratio of 2:1 in the final product ready for use, marketed as such or reconstituted as instructed by the manufacturer	
Foods for special medical purposes as defined in Regulation (EU) No 609/2013	In accordance with the particular nutritional requirements of the persons for whom the products are intended	
Total diet replacement for weight control as defined in Regulation (EU) No 609/2013	4.8 g/l for drinks 40 g/kg for bars	
Bread and pasta products bearing statements on the absence or reduced presence of gluten in accordance with the requirements of Commission Implementing Regulation (EU) No 828/2014	60 g/kg	
Flavoured drinks	1.2 g/l	
Coffee, tea (excluding black tea), herbal and fruit infusions, chicory; tea, herbal and fruit infusions and chicory extracts; tea, plant, fruit and cereal preparations for infusions, as well as mixes and instant	9.6 g/l - the maximum level refers to the products ready to use	

	mixes of these products	
	Food supplements as defined in Directive 2002/46/EC, excluding food supplements	3.0 g/day for general population
	for infants	1.2 g/day for young children
	Specified food category	Maximum levels
Galacto- oligosaccharide (GOS)	General foodstuffs as well as infant formula and follow-on formula as defined in Regulation (EU) No 609/2013	At the same levels as the comparator on the EU market before 15 May 1997
	Specified food category	Maximum levels
	Food Supplements as defined in Directive 2002/46/EC	
	Foods covered by Regulation (EU) No 609/2013	
Glucosamine HCl from Aspergillus	Milk-based drinks and similar products intended for young children	In line with normal food use of
niger	Meal replacement for weight control	glucosamine from shell fish
	Foods intended to meet the expenditure of intense muscular effort, especially for sportsmen	
	Foods bearing statements on	

	the absence or reduced presence of gluten in accordance with the requirements of Commission Implementing Regulation (EU) No 828/2014				
Glucosamine	Specified food category	Maximum levels			
sulphate KCl from Aspergillus niger	Food Supplements as defined in Directive 2002/46/EC	In line with normal food use of glucosamine from shell fish			
Glucosamine	Specified food category	Maximum levels			
sulphate NaCl from Aspergillus niger	Food Supplements as defined in Directive 2002/46/EC	In line with normal food use of glucosamine from shell fish			
	Specified food category	Maximum levels	cereal products respectively the	_	
	Fresh dairy products such as yogurts, fermented milks, fresh cheeses and other dairy-based desserts.	1.5 g/100 g			
Guar Gum	Fruit or vegetable-based liquid foodstuffs (of the "smoothie" variety)	1.8 g/100 g		to guar gum must be visible on the label of any foodstuffs containing it. For example, 'Excessive consumption of these products may	
	Fruit or vegetable-based compotes	3.25 g/100 g			
	Cereals accompanied by a dairy product, in packaging containing two compartments	10 g/100 g in the cereals None in the accompanying dairy product 1 g/100 g in the product when ready to eat			

Heat-treated milk	Specified food category	Maximum levels	the dairy product before consumption, in order to take into account the potential risk of gastro-intestinal obstruction.	
products fermented with Bacteroides xylanisolvens	Fermented milk products (in liquid, semi-liquid and spraydried powder forms)			
Ice Structuring	Specified food category	Maximum levels	The designation of the novel food on the	
Protein type III HPLC 12	Edible ices	0.01%	labelling of the foodstuffs containing it shall be "Ice Structuring Protein"	
	Specified food category	Maximum levels		
	Energy-Reduced Soft Drinks	6.5%		
	Energy Drinks	5.0%		
Toomalta	Foods intended to meet the expenditure of intense muscular efforts, especially for sportsmen (including isotonic drinks)	6.5%	The designation of the novel food on the labelling of the foodstuffs containing it shall be	
Isomalto- oligosaccharide	Fruit Juices	5%	"Isomaltooligosaccharide".	
V.15	Processed Vegetables and Vegetable Juices	5%	2. Foods containing the novel ingredient must be labelled as "a source of glucose".	
	Other Soft Drinks	5%	glucose .	
	Cereals Bars	10%		
	Cookies, Biscuits	20%		
	Breakfast Cereal Bars	25%		
	Hard Candies	97%		

	Soft Candies/Chocolate Bars	25%	
	Meal replacement for weight control (as bars or milk based)	20%	
Isomaltulose	Not specified		 The designation of the novel food on the labelling of the foodstuffs containing it shall be "Isomaltulose". The designation of the novel food on the labelling shall be accompanied by indication that the "Isomaltulose is a source of glucose and fructose".
	Specified food category	Maximum levels	
Lactitol	Food Supplements as defined in Directive 2002/46/EC (capsules or tablets) intended for the adult population	20 g/day	The designation of the novel food on the labelling of the food supplements containing it shall be "Lactitol"
	Specified food category	Maximum levels	1. The designation of the novel food on
	Unflavoured pasteurised and sterilised (including UHT) milk-based products	0.6 g/l	the labelling of the foodstuffs containing it shall be "Lacto-N-neotetraose".
Lacto-N-neotetraose	Unflavoured fermented milk- based products	0.6 g/l for beverages 9.6 g/kg for products other than beverages	2. The labelling of food supplements containing lacto-N-neotetraose shall bear a statement that the supplements should not be used if other foods with
	Flavoured fermented milk- based products including heat- treated products	0.6 g/l for beverages 9.6 g/kg for products other than beverages	added lacto-N-neotetraose are consumed the same day. 3. The labelling of food supplements
	Dairy analogues, including beverage whiteners	0.6 g/l for beverages 6 g/kg for products other than beverages	containing lacto-N-neotetraose intended for young children shall bear a statement that the supplements

	200 g/kg for whitener	should not be used if breast milk or other foods with added lacto-N-neotetraose are consumed the same
Cereal bars	6 g/kg	day.
Table-top sweeteners	100 g/kg	
Infant formula as defined in Regulation (EU) No 609/2013	0.6 g/l in combination with 1.2 g/l of 2'-O-fucosyllactose at a ratio of 1:2 in the final product ready for use, marketed as such or reconstituted as instructed by the manufacturer	
Follow-on formula as defined in Regulation (EU) No 609/2013	0.6 g/l in combination with 1.2 g/l of 2'-O-fucosyllactose at a ratio of 1:2 in the final product ready for use, marketed as such or reconstituted as instructed by the manufacturer	
Processed cereal-based food and baby food for infants and young children as defined in Regulation (EU) No 609/2013	6 g/kg for products other than beverages 0.6 g/l for liquid food ready for use, marketed as such or reconstituted as instructed by the manufacturer	
Milk-based drinks and similar products intended for young children	0.6 g/l for milk-based drinks and similar products added alone or in combination with 2'-O-fucosyllactose, at concentrations 1.2 g/l, at a ratio of 1:2 in the final product ready	

	for use, marketed as such or reconstituted as instructed by the manufacturer
Foods for special medical purposes as defined in Regulation (EU) No 609/2013	In accordance with the particular nutritional requirements of the persons for whom the products are intended
Total diet replacement for weight control as defined in Regulation (UE) No 609/2013	2.4 g/l for drinks 20 g/kg for bars
Bread and pasta products bearing statements on the absence or reduced presence of gluten in accordance with the requirements of Commission Implementing Regulation (EU) No 828/2014	30 g/kg
Flavoured drinks	0.6 g/l
Coffee, tea (excluding black tea), herbal and fruit infusions, chicory; tea, herbal and fruit infusions and chicory extracts; tea, plant, fruit and cereal preparations for infusions, as well as mixes and instant mixes of these products	4.8 g/l - the maximum level refers to the products ready to use

Lucerne leaf extract from <i>Medicago</i>	Food supplements as defined in Directive 2002/46/EC, excluding food supplements for infants Specified food category Food supplements as defined	1.5 g/day for general population 0.6 g/day for young children Maximum levels	The designation of the novel food on the labelling of the foodstuffs containing it shall be "Lucerne (Medicago sativa)	
sativa	in Directive 2002/46/EC	10 g/day	protein" or "Alfalfa (Medicago sativa) protein".	
	Specified food category	Maximum levels		
	Fruit/vegetable juice-based drinks (including concentrates)	2.5 mg/100 g		
	Drinks intended to meet the expenditure of intense muscular effort especially for sportsmen	2.5 mg/100 g		
Lycopene	Total diet replacement for weight control as defined in Regulation (EU) No 609/2013 and meal replacements for weight control	8 mg/meal	The designation of the novel food on the labelling of the foodstuffs containing it shall be "Lycopene"	
	Breakfast cereals	5 mg/100 g		
	Fats and dressings	10 mg/100g		
	Soups other than tomato soups	1 mg/100g		
	Bread (including crispy breads)	3 mg/100g		
	Foods for special medical	In accordance with the		

	purposes as defined in Regulation (EU) No 609/2013	particular nutritional requirements of the persons for whom the products are intended		
	Food supplements as defined in Directive 2002/46/EC	15 mg/day		
	Specified food category	Maximum levels		
	Fruit/vegetable juice-based drinks (including concentrates)	2.5 mg/100 g		
	Drinks intended to meet the expenditure of intense muscular effort especially for sportsmen	2.5 mg/100 g		
Lycopene from Blakeslea trispora	Total diet replacement for weight control as defined in Regulation (EU) No 609/2013 and meal replacements for weight control	8 mg/meal	The designation of the novel food on the labelling of the foodstuffs containing it shall be "Lycopene"	
	Breakfast cereals	5 mg/100 g		
	Fats and dressings	10 mg/100g		
	Soups other than tomato soups	1 mg/100g		
	Bread (including crispy breads)	3 mg/100g		
	Foods for special medical purposes as defined in Regulation (EU) No 609/2013	In accordance with the particular nutritional requirements of the persons for whom the products are		

		intended		
	Food supplements as defined in Directive 2002/46/EC	15 mg/day		
	Specified food category	Maximum levels		
	Fruit/vegetable juice-based drinks (including concentrates)	2.5 mg/100 g	The designation of the novel food on the labelling of the foodstuffs containing it shall be "Lycopene"	
Lycopene from tomatoes	Drinks intended to meet the expenditure of intense muscular effort especially for sportsmen	2.5 mg/100 g		
	Total diet replacement for weight control as defined in Regulation (EU) No 609/2013 and meal replacements for weight control	8 mg/meal		
tomatoes	Breakfast cereals	5 mg/100 g		
	Fats and dressings	10 mg/100g		
	Soups other than tomato soups	1 mg/100g		
	Bread (including crispy breads)	3 mg/100g		
	Foods for special medical purposes as defined in Regulation (EU) No 609/2013	In accordance with the particular nutritional requirements of the persons for whom the products are intended		
	Food supplements as defined	15 mg per/day		

	in Directive 2002/46/EC			
	Specified food category	Maximum levels of lycopene		
	Fruit/vegetable juice-based drinks (including concentrates)	2.5 mg/100 g	The designation of the novel food on the labelling of the foodstuffs containing it shall be "Lycopene oleoresin from tomatoes"	
	Drinks intended to meet the expenditure of intense muscular effort especially for sportsmen	2.5 mg/100 g		
Lycopene oleoresin from tomatoes	Total diet replacement for weight control covered by Regulation (EU) No 609/2013 and meal replacements for weight control	8 mg/meal		
	Breakfast cereals	5 mg/100 g		
	Fats and dressings	10 mg/100g		
	Soups other than tomato soups	1 mg/100g		
	Bread (including crispy breads)	3 mg/100g		
	Foods for special medical purposes as defined in Regulation (EU) No 609/2013	In accordance with the particular nutritional requirements of the persons for whom the products are intended		
Magnesium citrate	Specified food category	Maximum levels	The designation of the novel food on the	
malate	Food Supplements as defined in Directive 2002/46/EC	375 mg per/day	labelling of the foodstuffs containing it shall be "Magnesium citrate malate"	

Magnolia Bark Extract	Specified food category	Maximum levels		
	Mints (confectionary products)	0.2% for breath freshening purposes. Based on a 0.2% maximum incorporation level and a maximum gum/mint size of 1.5g each, each gum or mint serving will contain no more than 3 mg of magnolia bark extract.	The designation of the novel food on the labelling of the foodstuffs containing it shall be "Magnolia Bark Extract"	
	Chewing gum			
34.	Specified food category	Maximum levels	The designation of the novel food on the	
Maize-germ oil high in unsaponifiable matter	Food Supplements as defined in Directive 2002/46/EC	2 g/day	labelling of the foodstuffs containing it shall be "Maize-germ oil high in	
	Chewing gum	2%	unsaponifiable matter"	
	Specified food category	Maximum levels	The designation of the novel food on the labelling of the foodstuffs containing it	
	Edible ices			
	Flavoured drinks			
Methylcellulose	Flavoured or unflavoured fermented milk products			Methylcellulose is not to be used in foods specially
172cmj recharose	Cold desserts (dairy, fat, fruit, cereal, egg-based products)	2%	shall be "Methylcellulose"	prepared for young children
	Fruit preparations (pulps, purees or compotes)			
	Soups and broths			
(6S)-5- methyltetrahydrofol ic acid, glucosamine	Specified food category	Maximum levels	The designation of the novel food on the labelling of the foodstuffs containing it shall be "(6S)-5-methyltetrahydrofolic acid, glucosamine salt" or "5MTHF-	

salt			glucosamine"	
	Food Supplements as defined in Directive 2002/46/EC as a source of folate			
	Specified food category	Maximum levels of silicon	The designation of the novel food on the	
Monomethylsilanetr iol (Organic Silicon)	Food Supplements as defined in Directive 2002/46/EC (in liquid form)	10.40 mg/day for adult population	labelling of the food supplements containing it shall be "Organic silicon (monomethylsilanetriol)"	
	Specified food category	Maximum levels		
	Bread products	2 ml/100 g	The designation of the novel food on the	
Mycelial extract from Shiitake	Soft drinks	0.5 ml/100 ml	labelling of the foodstuffs containing it	
mushroom	Ready prepared meals	2.5 ml per meal	shall be "extract from the mushroom Lentinula edodes" or "extract from Shiitake mushroom"	
(Lentinula edodes)	Foods based on yoghurt	1.5 ml/100 ml		
	Food supplements as defined in Directive 2002/46/EC	2.5 ml per day dose		
	Specified food category	Maximum levels		
Noni fruit juice (Morinda citrifolia)	Pasteurised fruit juice and fruit nectar drinks	30 ml with one serving (up to 100 % noni juice) or 20 ml twice a day, not more than 40 ml per day	The designation of the novel food on the labelling of the foodstuffs containing it shall be "Noni juice" or "Juice of <i>Morinda citrifolia</i> "	
Noni fruit juice powder (<i>Morinda</i> citrifolia)	Food supplements as defined in Directive 2002/46/EC	6.6 g/day (equivalent to 30 ml of noni juice)	The designation of the novel food on the labelling of the foodstuffs containing it shall be "Noni juice powder" or "Juice powder of <i>Morinda citrifolia</i> "	
Noni fruit puree and	Specified food category	Maximum levels	The designation of the novel food on the	
concentrate		Fruit puree	labelling of the foodstuffs containing it	

(Morinda citrifolia)	Candy/confectionery	45 g/100 g	shall be:
	Cereal bars	53 g/100 g	For fruit puree:
	Powdered nutritional drink mixes (dry weight)	53 g/100 g	"Morinda citrifolia fruit puree" or "Noni fruit puree" For fruit concentrate:
	Carbonated beverages	11 g/100 g	"Morinda citrifolia fruit concentrate" or
	Ice cream & sorbet	31 g/100 g	"Noni fruit concentrate"
	Yoghurt	12 g/100 g	
	Biscuits	53 g/100 g	
	Buns, cakes and pastries	53 g/100 g	
	Breakfast cereals (wholegrain)	88 g/100 g	
	Jams and jellies in accordance with Directive 2001/113/EC	133 g/100 g Based on pre-processing quantity to produce final 100 g product	
	Sweet spreads, fillings and icings	31 g/100 g	
	Savoury sauces, pickles, gravies and condiments	88 g/100 g	
	Food Supplements as defined in Directive 2002/46/EC	26 g/day	
		Fruit concentrate	
	Candy/Confectionery	10 g/100 g	
	Cereal bars	12 g/100 g	
	Powdered nutritional drink mixes (dry weight)	12 g/100 g	

	Carbonated beverages	3 g/100 g		
	Ice cream & sorbet	7 g/100 g		
	Yoghurt	3 g/100 g		
	Biscuits	12 g/100 g		
	Buns, cakes and pastries	12 g/100 g		
	Breakfast cereals (wholegrain)	20 g/100g		
	Jams and jellies in accordance with Directive 2001/113/EC	30 g/100 g		
	Sweet spreads, fillings and icings	7 g/100 g		
	Savoury sauces, pickles, gravies and condiments	20 g/100 g		
	Food Supplements as defined in Directive 2002/46/EC	6 g/day		
	Specified food category	Maximum levels	1. The designation of the novel food on	
Noni leaves (Morinda citrifolia)	For the preparation of infusions	A cup of infusion to be consumed shall not be prepared with more than 1 g of dried and roasted leaves of <i>Morinda citrifolia</i>	the labelling of the foodstuffs containing it shall be "Noni leaves" or "leaves of <i>Morinda citrifolia"</i> . 2. Instructions shall be given to the consumer that a cup of infusion should not be prepared with more than 1 g of dried and roasted leaves of Morinda citrifolia.	
	Specified food category	Maximum levels	The designation of the novel food on the	
Noni fruit powder (Morinda citrifolia)	Food Supplements as defined in Directive 2002/46/EC	2.4 g per/day	labelling of the foodstuffs containing it shall be "Morinda citrifolia fruit powder" or "Noni fruit powder"	

	Specified food category	Maximum levels		
	Flavoured pasta	1.5%		
	Fish soups	1%	The designation of the novel food on the	
Odontella aurita microalgae	Marine terrines	0.5%	labelling of the foodstuffs containing it	
inici ouigue	Broth preparations	1%	shall be "Odontella aurita microalgae"	
	Crackers	1.5%		
	Frozen breaded fish	1.5%		
	Specified food category	Maximum levels of phytosterols/phytostanols		
Oil enriched with phytosterols/phytost anols	Spreadable fats as defined in Council Regulation (EC) No 2991/94 Annex, points B and C, excluding cooking and frying fats and spreads based on butter or other animal fat Milk based products, such as products based on semiskimmed and skimmed milk products, possibly with the addition of fruits and/or cereals, products based on fermented milk such as yoghurt and cheese based products (fat content ≤ 12 g per 100 g), where possibly the milk fat has been reduced and the fat or protein has been partly or fully replaced by	 The products containing the novel food ingredient shall be presented in such a manner that they can be easily divided into portions that contain either a maximum of 3 g (in case of one portion per day) or a maximum of 1 g (in case of three portions per day) of added phytosterols/phytostanols. The amount of phytosterols/phytostanols added to a container of beverages shall not exceed 3 g. Spicy sauces and salad dressings including 	In accordance with Annex III.5 to Regulation (EU) No 1169/2011	

	vegetable fat or protein.	mayonnaise shall be packed as single portions.		
	Soya drinks			
	Spicy sauces and salad dressings including mayonnaise.			
	Specified food category	Maximum levels of DHA and EPA combined		
	Dairy products except milk- based beverages	200 mg/100 g or for cheese products 600mg/100g		
	Dairy analogues except drinks	200 mg/100 g or for analogues to cheese products 600 mg/100 g		
	Spreadable fat and dressings	600 mg/100 g		
	Breakfast cereals	500 mg/100 g		
Oil extracted from squid (Cephalopod	Bakery products (breads and bread rolls)	200 mg/100 g	The designation of the novel food on the labelling of the foodstuffs containing it	
sp.)	Cereal bars	500 mg/100 g	shall be "Squid oil".	
	Non-alcoholic beverages (including milk-based beverages)	60 mg/100 ml		
	Food Supplements as defined in Directive 2002/46/EC	3000 mg/day for general population 450 mg/day for pregnant and lactating women		
	Foods for special medical purposes as defined in	In accordance with the particular nutritional		

	Regulation (EU) No 609/2013	requirements of the persons for whom the products intended		
	Total diet replacement for weight control defined in Regulation (EU) No 609/2013 and meal replacements for weight control	200 mg/meal		
	Specified food category	Maximum levels		
Pasteurised fruit- based preparations produced using high-pressure pasteurisation	Types of fruit: apple, apricot, banana, blackberry, blueberry, cherry, coconut, fig, grape, grapefruit, mandarine, mango, melon, peach, pear, pineaple, prune, raspberry, rhubarb, strawberry		The wording "pasteurised by high-pressure treatment" shall be displayed next to the fruit preparations in question as such and in any product in which it is used"	
	Specified food category	Maximum levels		
DI I (I ·	Baked bakery products		The designation of the novel food on the	
Phosphated maize starch	Pasta	15%	labelling of the foodstuffs containing it	
5442 442	Breakfast cereals		shall be "Phosphated maize starch"	
	Cereal bars			
	Specified food category	Maximum levels of phosphatidylserine		
Phosphatidylserine from fish phospholipids	Beverages based on yoghurt	50 mg/100mL	The designation of the novel food on the labelling of the foodstuffs containing it shall be accompanied by indication that the novel food is "derived from fish lecithin"	
	Powders based on milk powders	3500 mg/100g (equivalent to 40mg/100mL ready to drink)		
	Foods based on yoghurt	80 mg/100g		
	Cereal bars	350 mg/100g		

	Chocolate based confectionary	200 mg/100g		
	Foods for special medical purposes as defined in Regulation (EU) No 609/2013	In compliance with Regulation (EU) No 609/2013		
	Food supplements as defined in Directive 2002/46/EC	300 mg/day		
	Specified food category	Maximum levels of phosphatidylserine		
	Beverages based on yoghurt	50 mg/100 ml		
Phosphatidylserine	Powders based on milk powder	3.5 g/100 g (equivalent to 40 mg/100 ml ready to drink)	The designation of the novel food on the	
from soya phospholipids	Foods based on yoghurt	80 mg/100 g	labelling of the foodstuffs containing it	
	Cereal bars	350 mg/100 g	shall be "Soya phosphatidylserine"	
	Chocolate based confectionary	200 mg/100 g		
	Foods for special medical purposes as defined in Regulation (EU) No 609/2013	In compliance with Regulation (EU) No 609/2013		
	Specified food category	Maximum levels of phosphatidylserine + phosphatidic acid		
Phospholipids product containing phosphatidylserine and phosphatidic acid	Breakfast cereals	80 mg + 80 mg/100 g	The designation of the novel food on the	The product is not intended to be
	Cereal bars	350 mg + 350 mg/100 g	labelling of the foodstuffs containing shall be "Soy phosphatidylserine and	marketed to pregnant
	Foods based on yogurt	80 mg + 80 mg/100 g	phosphatidic acid"	ore breast-feeding
	Soy-based yogurt-like products	80 mg + 80 mg/100 g		women
	Yogurt based-drinks	50 mg + 50 mg/100 g		

	Soy-based yogurt-like drinks Powders based on milk powder Food Supplements as defined in Directive 2002/46/EC Foods for special medical purposes as defined in Regulation (EU) No 609/2013	50 mg + 50 mg/100 g 3.5 g + 3.5 g/100g (equivalent to 40 mg + 40 mg/100ml ready-to drink) 800 mg/day In compliance with Regulation (EU) No 609/2013		
Phospholipides from egg yolk	Specified food category	Maximum levels		
egg york	Not specified	Marimum lavala		
Phytosterols/phytost anols	Rye bread with flour containing ≥ 50 % rye (wholemeal rye flour, whole or cracked rye kernels and rye flakes) and ≤ 30 % wheat; and with ≤ 4 % added sugar but no fat added. Spicy sauces Soya drink Milk type products, such as semi-skimmed and skimmed milk type products, possibly with the addition of fruits and/or cereals, where possibly the milk fat has been reduced,	Maximum levels 1. They shall be presented in such a manner that they can be easily divided into portions that contain either a maximum of 3 g (in case of 1 portion/day) or a maximum of 1 g (in case of 3 portions/day) of added phytosterols/phytostanols. The amount of phytosterols/phytostanols added to a container of beverages shall not exceed 3 g. Salad dressings and spicy sauces shall be packed as	In accordance with Annex III.5 of Regulation (EU) No 1169/2011	

	or where milk fat and/or protein has been partly or fully replaced by vegetable fat and/or protein.	single portions		
	Products based on fermented milk, such as yoghurt and cheese type products (fat content ≤ 12 g per 100 g), where possibly the milk fat has been reduced, or where milk fat and/or protein has been partly or fully replaced by vegetable fat and/or protein. Yellow fat spreads as defined by Council Regulation (EC) No 2991/94(1), excluding cooking and frying fats and spreads based on butter or other animal fat.			
	Specified food category	Maximum levels		
Plum kernel oil	For frying and as seasoning	In line with normal food use of vegetable oils		
Potato proteins (coagulated) and hydrolysates	Not specified		The designation of the novel food on the labelling of the foodstuffs containing it shall be "Potato protein"	
Prolyl	Specified food category	Maximum levels	The designation of the novel food on the	
oligopeptidase (Enzyme	Food Supplements as defined in Directive 2002/46/EC	120 PPU/day (2.7 g of enzyme preparation/day) (2x10 ⁶	labelling of the foodstuffs containing it shall be "Prolyl oligopeptidase"	

preparation)		PPI/day) for general adult population PPU – Prolyl Peptidase Units or Proline Protease Units PPI – Protease Picomole International		
	Specified food category	Maximum levels		
Protein extract from	Food Supplements as defined in Directive 2002/46/EC	3 capsules/day; equalizing 12.6		
pig kidneys	Food for special medical purposes as defined in Regulation (EU) No 609/2013			
Rapeseed oil high in	Specified food category	Maximum levels	The designation of the novel food on the	
unsaponifiable matter	Food Supplements as defined in Directive 2002/46/EC	1.5 g per portion recommended for daily consumption	labelling of the foodstuffs containing it shall be "Rapeseed oil extract"	
Rapeseed Protein	As a vegetable protein source in foods except in infant formula and follow-on formula		 The designation of the novel food on the labelling of the foodstuffs containing it shall be "Rapeseed protein". Any foodstuff containing "rapeseed protein" shall bear a statement that this ingredient may cause allergic reaction to consumers who are allergic to mustard and products thereof. Where relevant, this statement shall appear in close proximity to the list of ingredients. 	
Trans-resveratrol	Specified food category	Maximum levels	1. The designation of the novel food on	

	Food Supplements as defined in Directive 2002/46/EC (capsule or tablet form)	150 mg/day for adult population	the labelling of the food supplements containing it shall be " <i>Trans</i> -resveratol". 2. The labelling of food supplements containing trans-resveratrol shall bear a statement that people using medicines should only consume the product under medical supervision.	
	Specified food category	Maximum levels	1. The designation of the novel food on	
Trans-resveratrol (microbial source)	Food supplements as defined in Directive 2002/46/EC	At comparable inclusion levels to resveratrol extracted from Japanese knotweed (Fallopia japonica)	the labelling of the food supplements containing it shall be " <i>Trans</i> -resveratol". 2. The labelling of food supplements containing trans-resveratrol shall bear a statement that people using medicines should only consume the product under medical supervision.	
	Specified food category	Maximum levels		
	Milk-based drinks	40 mg/100g or mg/100mL	The designation of the novel food on the	
Rooster comb	Milk based fermented drinks	80 mg/100g or mg/100mL	labelling of the foodstuffs containing it shall be "Rooster comb extract" or	
CACTACT	Yoghurt-type products	65 mg/100g or mg/100mL	"Cockerel comb extract"	
	Fromage frais	110 mg/100g or mg/100mL		
	Specified food category	Maximum levels	The designation of the novel food on the	
Sacha Inchi oil from Plukenetia volubilis	As for linseed oil	In line with normal food use of linseed oil	labelling of the foodstuffs containing it shall be "Sacha inchi oil (Plukenetia volubilis)	
Salatrims	Specified food category	Maximum levels	1. The designation of the novel food on	

	Bakery products and confectionary		the labelling of the foodstuffs containing it shall be "reduced energy fat (salatrims)". 2. There shall be a statement that excessive consumption may lead to gastro-intestinal disturbance. 3. There shall be a statement that the products are not intended for use by children.	
	Specified food category	Maximum levels of DHA and EPA combined:		
	Food Supplements as defined in Directive 2002/46/EC	3000 mg/day for adult population excluding pregnant and lactating women		
	III Directive 2002/140/LC	450 mg/day for pregnant and lactating women		All food products containing DHA-rich oil from
Schizochytrium sp. oil rich in DHA and EPA	Foods for special medical purposes as defined in Regulation (EU) No 609/2013	In accordance with the particular nutritional requirements of the persons for whom the products are intended	The designation of the novel food on the labelling of the foodstuffs containing it shall be "DHA and EPA-rich oil from the microalgae <i>Schizochytrium</i> sp."	Schizochytrium sp. should demonstrate oxidative stability by appropriate and recognised
	Total diet replacement for weight control as defined in Regulation (EU) No 609/2013 and meal replacements for weight control	250 mg/meal		national/internationa l test methodology (e.g. AOAC)
	Processed cereal based food and baby food for infants and young children as defined in	200 mg/100 g		

Regulation (EU) No	609/2013		
Foods intended to expenditure of muscular effort, esp sportsmen	intense		
presence of gl accordance wit requirements of Co	reduced uten in n the		
Bakery Products, B Rolls, Sweet Biscuit	1 /UU mg/1UU s	y 5	
Breakfast Cereals	500 mg/100	g	
Cooking Fats	360 mg/100	g	
Dairy Analogues exc	mg/100 g for	g for cheese; 200 soy and imitation ucts (excluding	
Dairy Products (exc based drinks)	ept milk- mg/100 g f (including m	g for cheese; 200 for milk products tilk, fromage frais thurt products; anks)	
Non-alcoholic (including dairy ana	Beverages logue and 80 mg/100 g		

	milk-based drinks)			
	Cereal/Nutrition Bars	500 mg/100 g		
	Spreadable Fats and Dressings	600 mg/100 g		
	Specified food category	Maximum levels of DHA		
	Dairy products except milk- based drinks	200 mg/100 g or for cheese products 600 mg/100 g		
	Dairy analogues except drinks	200 mg/100 g or for analogues to cheese products 600 mg/100 g		
	Spreadable fat and dressings	600 mg/100 g		
	Breakfast cereals	500 mg/100 g		
	Food Supplements as defined	250 mg DHA/day for general population	The designation of the novel food on the labelling of the foodstuffs containing it shall be "Oil from the micro-algae <i>Schizochytrium</i> sp. (ATCC PTA-9695)"	
Schizochytrium sp. (ATCC PTA-9695)	in Directive 2002/46/EC	450 mg DHA/day for pregnant and lactating women		
oil	Total diet replacement for weight control as defined in Regulation (EU) No 609/2013 and meal replacements for weight control	250 mg/meal		
	Milk-based drinks and similar products intended for young children	200 mg/100 g In accordance with the		
	Foods intended to meet the expenditure of intense muscular effort, especially for sportsmen	particular nutritional requirements of the persons for whom the products are intended		

	Foods bearing statements on the absence or reduced presence of gluten in accordance with the requirements of Commission Implementing Regulation (EU) No 828/2014			
	Bakery products (breads and rolls), sweet biscuits	200 mg/100 g 500 mg/100 g		
	,	360 mg/100 g		
	Cooking fats	80 mg/100 ml		
	Infant formula and follow-on formula as defined in Regulation (EU) No 609/2013	In accordance with Regulation (EU) No 609/2013		
	Processed cereal-based foods and baby foods for infants and young children as defined in Regulation (EU) No 609/2013	200 mg/100 g		
	Specified food category	Maximum levels of DHA		
	Dairy products except milk- based drinks	200 mg/100 g or for cheese products 600 mg/100 g		
Schizochytrium sp.	Dairy analogues except drinks	200 mg/100 g or for analogues to cheese products 600 mg/100 g	The designation of the novel food on the labelling of the foodstuffs containing it shall be "Oil from the microalgae Schizochytrium sp."	
	Spreadable fat and dressings	600 mg/100 g	,	
	Breakfast cereals	500 mg/100 g		
	Foods for special medical	In accordance with the		

	Implementing Regulation (EU) No 828/2014-				
	Cooking fats	360 mg/100 g			
	Non-alcoholic beverages (including dairy analogue and milk-based drinks)	80 mg/100 ml			
	Specified food category	Maximum levels	1.	The designation of the novel food on	
Fermented soybean extract	Food Supplements as defined in Directive 2002/46/EC (capsules, tablets or powder form) intended for the adult population, excluding pregnant and lactating women	100 mg/day	2.	the labelling of the foodstuffs containing it shall be "Fermented soybean extract". The labelling of food supplements containing fermented soybean extract shall bear a statement that persons taking medication should only consume the product under medical supervision.	
	Specified food category	Maximum levels	1.	The designation of the novel food on	
Sucromalt	Not specified		2.	the labelling of the foodstuffs containing it shall be "Sucromalt". The designation of the novel food on the labelling shall be accompanied by indication that the product is a source of glucose and fructose.	
	Specified food category	Maximum levels			
	Bread	8 %			
Sugar cane fibre	Bakery goods	5 %			
	Meat and muscle products	3 %			
	Seasonings and spices	3 %			

	Grated cheeses	2 %		
	Special diet foods	5 %		
	Sauces	2 %		
	Beverages	5 %		
	Specified food category	Maximum levels		
Sunflower oil extract	Food Supplements as defined in Directive 2002/46/EC	1.1 g/day	The designation of the novel food on the labelling of the foodstuffs containing it shall be "Sunflower oil extract"	
	Specified food category	Maximum levels	The designation of the novel food on the	
Dried Tetraselmis	Sauces	20% or 250mg/day	labelling of the foodstuffs containing it	
chuii microalgae	Special salts	1%	shall be "Dried microalgae Tetraselmis	
	Condiment	250 mg/day	chuii" or "Dried microalgae T. chuii"	
Therapon barcoo/ Scortum	Intended use identical to that of the salmon, namely the preparation of culinary fish products and dishes, including cooked, raw, smoked and baked fish products			
	Specified food category	Maximum levels	1. The designation of the novel food on	
D-Tagatose	Not specified		the labelling of the foodstuffs containing it shall be "D-Tagatose". 2. The labelling of any product where the level of D-Tagatose exceeds 15 g per serving and all beverages containing greater than 1% D-Tagatose (as consumed) shall bear a statement "excessive consumption may produce laxative effects".	
Taxifolin-rich	Specified food category	Maximum levels	The designation of the novel food on the	

extract	Food Supplements as defined in Directive 2002/46/EC intended for the general population, excluding infants, young children, children and adolescents younger than 14 years	100 mg/day	labelling of the foodstuffs containing it shall be "taxifolin-rich extract".	
	Specified food category	Maximum levels	1. The designation of the novel food on	
Trehalose	Not specified		the labelling of the foodstuffs containing it shall be "Trehalose" and shall be displayed on the labelling of the product as such or in the list of ingredients of foodstuffs containing it. 2. The designation of the novel food on the labelling shall be accompanied by indication that the "Trehalose is a source of glucose".	
UV-treated mushrooms with increased levels of Vitamin D ₂	 The EU market approval applies to commercially grown Agaricus bisporus UV light treatment is applied to harvested mushrooms yielding a Vitamin D content of ≤10 μg/100g fresh weight 		 The designation of the novel food on the labelling of the foodstuffs containing it shall be "UV-treated mushrooms (<i>Agaricus bisporus</i>) with increased levels of Vitamin D2". The designation of the novel food on the labelling of the foodstuffs containing it shall be accompanied by indication that a "controlled light treatment was used to increase vitamin D levels" or "UV treatment was used to increase vitamin D₂ levels". 	
UV-treated baker's	Specified food category	Maximum levels of vitamin	The designation of the novel food on the	

yeast		D2	labelling of the foodstuffs containing it	
(Saccharomyces cerevisiae)	Yeast-leavened breads and rolls	5 μg of vitamin D ₂ /100 g	shall be "Vitamin D yeast" or "Vitamin D ₂ yeast"	
	Yeast-leavened fine bakery wares	5 μg of vitamin D ₂ /100 g		
	Food Supplements as defined in Directive 2002/46/EC	5 μg of vitamin D ₂ /day		
UV-treated bread	Specified food category	Maximum levels of vitamin D2	The designation of the novel food on the labelling of the foodstuffs containing it	
O V-treated bread	Yeast leavened bread and rolls (without toppings)	3 μg vitamin D ₂ /100 g	shall be accompanied by "contains vitamin D produced by UV-treatment"	
	Specified food category	Maximum levels of vitamin D2	 The designation of the novel food on the labelling of the foodstuffs containing it shall be "UV-treated". Where UV-treated milk contains an amount of vitamin D that is considered significant in accordance with Point 2 of Part A of Annex XIII to Regulation (EU) No 1169/2011 of the European Parliament and of the Council, the designation for the labelling shall be accompanied by "contains vitamin D produced by UV-treatment" or "milk containing vitamin D resulting from UV-treatment". 	
	Pasteurised whole milk as defined in Regulation (EU) No 1308/2013 to be consumed as such	5-32 μg/kg for general population excluding infants		
UV-treated milk	Pasteurised semi-skimmed milk as defined in Regulation (EU) No 1308/2013 to be consumed as such	1-15 μg/kg for general population excluding infants		
Vitamin K ₂ (menaquinone)	To be used in compliance with Directive 2002/46/EC, Regulation (EU) No 609/2013 and/or Regulation (EC) No 1925/2006		The designation of the novel food on the labelling of the foodstuffs containing it shall be "Menaquinone" or "Vitamin K" or "vitamin K_2 "	

	Specified food category	Maximum levels		The "Wheat Bran	
	Beer and substitutes	0.4 g/100g	The designation of the novel food on the labelling of the foodstuffs containing it shall be "Wheat bran extract"	Extract" may not be introduced onto the	
	Ready to eat cereals	9 g/100g		market as a food supplement or food supplement ingredient. Nor may it be added to infant formula.	
Wheat bran extract	Dairy products	2.4 g/100g			
	Fruit and vegetable juices	0.6 g/100g			
	Soft drinks	0.6 g/100g			
	Meat preparations	2 g/100g			
	Specified food category	Maximum levels of pure beta-glucans from yeast (Saccharomyces cervisiae)			
	Food supplements as defined in Directive 2002/46/EC, excluding food supplements for infants and young children	1.275 g/day for children older than 12 years and general adult population 0.675 g/day for children younger than 12 years			
Yeast beta-glucans	Total diet replacement for weight control as defined in Regulation (EU) No 609/2013	1.275 g/day	The designation of the novel food on the labelling of the foodstuffs containing it shall be "Yeast (Saccharomyces cerevisiae)		
	Food for special medical purposes as defined in Regulation (EU) No 609/2013, excluding food for special medical purposes intended for infants and young children	1.275 g/day	beta-glucans"		
	Beverages based on fruit and/or vegetable juices including concentrate and	1.3 g/kg			

dehydrated juices	
Fruit-flavoured drinks	0.8 g/kg
Cocoa beverages preparation powder	38.3 g/kg (powder)
Other beverages	0.8 g/kg (ready to drink)
Other beverages	0.7 g/kg (powder)
Cereal bars	6 g/kg
Breakfast cereals	15.3 g/kg
Wholegrain and high fibre instant hot breakfast cereals	1.5 g/kg
Cookie-type biscuits	6.7 g/kg
Cracker-type biscuits	6.7 g/kg
Milk based beverages	3.8 g/kg
Fermented milk products	3.8 g/kg
Milk product analogues	3.8 g/kg
Dried milk/milk powder	25.5 g/kg
	0.9 g/kg (ready to eat)
Soups and soup mixes	1.8 g/kg (condensed)
	6.3 g/kg (powder)
Chocolate and confectionery	4 g/kg
Protein bars and powders	19.1 g/kg
Jam, marmalade and other fruit spreads	11.3 g/kg

Zeaxanthin	Specified food category	Maximum levels	The designation of the novel food on the
(synthetic)	Food Supplements as defined in Directive 2002/46/EC	1.7 mg/d_{2V}	
	Specified food category	Maximum levels	
	Foods covered by Regulation (EU) No 609/2013		
	Milk based drinks and similar products intended for young children		
Zinc L-pidolate	Meal replacement for weight control		The designation of the novel food on the labelling of the foodstuffs containing it shall be "Zinc L-pidolate"
	Foods intended to meet the expenditure of intense muscular effort, especially for sportsmen	3g/day	
	Food bearing statement on the absence or reduced presence of gluten in accordance with the requirements of Commission Implementing Regulation (EU No 828/2014		
	Food Supplements as defined in Directive 2002/46/EC		

Table 2: Specifications

Authorised Novel Food	Specification
Baobab (Adansonia digitata) dried fruit pulp	Description/Definition: The Baobab (<i>Adansonia digitata</i>) fruits are harvested from trees. The hard shells are cracked open and the pulp is separated from the seeds and the shell. This is milled, separated into coarse and fine lots (particle size 3 to 600 μ) and then packaged. Typical nutritional components: Moisture (loss on drying) (g/100 g): 4.5-13.7 Protein (g/100 g): 1.8-9.3 Fat (g/100 g): 0-1.6 Total carbohydrate (g/100 g): 76.3-89.5 Total sugars (as glucose): 15.2-36.5 Sodium (mg/100 g): 0.1-25.2 Analytical specifications: Foreign matter: Not more than 0.2% Moisture (loss on drying) (g/100 g): 4.5-13.7 Ash (g/100 g): 3.8-6.6
Ajuga reptans extract	Description/Definition : Extracts from <i>Ajuga reptans</i> L. tissue cultures are substantial equivalent to extracts from flowering aerial parts of <i>Ajuga reptans</i> obtained by traditional cultures.
L-Alanyl-L-Glutamine	Description/Definition: L-Alanyl-L-Glutamine is produced by bacterial fermentation which is purified from the growth media to a purity of greater than 98%. The ingredient is secreted by a modified strain of <i>Escherichia coli</i> and isolated from the fermentation broth by conventional techniques without disruption. Appearance: White crystalline powder Purity: > 98% Infrared spectroscopy: Conformity with ref. standard State of solution: Colourless and clear Assay (dry basis): 98.0-102.0%b

	Related substances: $\leq 0.2\%$ Residue on ignition: $\leq 0.10\%$ Loss on drying: $\leq 0.5\%$ Optical rotation: $+9.0 - +11.0^\circ$ pH (1%; H20): $5.0 - 6.0$ Ammonium (NH ₄): $\leq 0.020\%$ Chloride (C1): $\leq 0.020\%$ Sulphate (SO ₄): $\leq 0.020\%$ Escherichia coli: Negative/g
Algal oil from the microalgae <i>Ulkenia</i> sp.	Description/Definition: Oil from the micro-algae <i>Ulkenia</i> sp. Acid value: ≤ 0.5 mg KOH/g Peroxide value (PV): ≤ 5.0 meq/kg oil Moisture and volatiles: ≤ 0.05 % Unsaponifiables: ≤ 4.5 % Trans-fatty acids: ≤ 1 % DHA content: ≥ 32.0 %
Allanblackia seed oil	Description/Definition: Allanblackia seed oil is obtained from the seeds of the allanblackia species: A. floribunda (synonymous with A. parviflora) and A. stuhlmannii. Composition of fatty acids: Lauric acid (C12:0): < 1% Myristic acid (C14:0): < 1% Palmitic acid (C16:0): < 2% Palmitoleic acid (C16:1): < 1% Stearic acid (C18:1): 40-51% Linoleic acid (C18:2): < 1% γ-Linolenic acid (C18:3): < 1% Arachidic acid (C20:0): < 1% Free fatty acids: max 0.1%

	Characteristics: Trans fatty acids: max 0.5% Peroxide value: max 0.8 meq/kg Iodine value: < 46 g/100 g Unsaponifiable matter: max 1.0% Saponification value: 185-198 mg KOH/g
Aloe macroclada Baker leaf extract	Ash: 25% Dietary fibres: 28.6% Fat: 2.7% Moisture: 4.7% Polysaccharides: 9.5% Protein: 1.63% Glucose: 8.9%
Antartic Krill (Euphasia superba) oil	Description/Definition: To produce lipid extract from Antarctic Krill (<i>Euphausia superba</i>) deep-frozen crushed krill or dried krill meal is subjected to lipid extraction with an approved extraction solvent (under Directive 2009/32/EC). Proteins and krill material are removed from the lipid extract by filtration. The extraction solvents and residual water are removed by evaporation. Saponification value: ≤ 230 mg KOH/g Peroxide value (PV): ≤ 3 meq O $_2$ /kg oil Moisture and volatiles: ≤ 3% Phospholipids: ≤ 50% Trans-fatty acids: ≤ 1% EPA (eicosapentaenoic acid): ≥ 9% DHA (docosahexaenoic acid): ≥ 5%
Antartic Krill (Euphasia superba) oil rich in phospholipids	Description/Definition: Oil rich in phospholipids is produced from Antarctic krill ($Euphasia\ superba$) by repeated solvent washings with an approved solvents (under Directive 2009/32/EC) to increase phospholipid content of the oil. Solvents are removed from the final product by evaporation. Saponification value: $\leq 230\ mg\ KOH/g$ Peroxide value (PV): $\leq 3\ meq\ O_2\ /kg\ oil$ Moisture and volatiles: $\leq 3\%$

	Phospholipids: ≥ 60% Trans-fatty acids: ≤ 1% EPA (eicosapentaenoic acid): ≥ 9% DHA (docosahexaenoic acid): ≥ 5%
Arachidonic acid-rich oil from the fungus <i>Mortierella alpina</i>	Description/Definition: The clear yellow arachidonic acid-rich oil is obtained by fermentation of the fungus <i>Mortierella alpina</i> using a suitable liquid. The oil is then extracted from the biomass and purified. Arachidonic acid: $> 40\%$ by weight of the total fatty acid content Free fatty acids: $\le 0.45\%$ of the total fatty acid content Trans fatty acids: $\le 0.5\%$ of the total fatty acid content Unsaponifiable matter: $\le 1.5\%$ Peroxide value: ≤ 5 meq/kg Anisidin value: ≤ 20 Acid value: ≤ 1.0 KOH/g
Argan oil (Argania spinose)	Description/Definition: Argan oil is the oil obtained by cold pressing of the almond like kernels of the fruits of <i>Argania spinosa</i> (L.) Skeels. Kernels may be roasted prior to pressing, but with no direct contact with a flame. Composition: Palmitic acid (C16:0): 12-15% Stearic acid (C18:0): 5-7% Oleic acid (C18:1): 43-50% Linoleic acid (C18:2): 29-36% Unsaponifiable matter: 0.3-2% Total sterols: 130-230 mg/100 g Total tocopherols: 16-90 mg/100g Oleic acidity: 0.2-1.5% Peroxide value: <10 meq O ₂ /kg
Astaxanthin (from Haematococcus pluvialis algae)	Description/Definition: Astaxanthin is a carotenoid produced by <i>Haematococcus pluvialis</i> algae. Production methods for the growth of the algae are variable; using closed systems exposed to sunlight or strictly controlled illuminated light alternatively open ponds may be used. The algal cells are

harvested and dried; the oleoresin is extracted using either super critical CO2 or a solvent, ethyl acetate. The Astaxanthin is diluted and standardized to 2.5%, 5%, 7%, 10%, 15% or 20% using olive oil, safflower oil, Sunflower oil or MCT (Medium Chain Triglycerides). **Composition of the Oleoresin:** Fat 42.2- 99% Protein 0.3-4.4% Carbohydrate 0-52.8% Fibre < 1% Ash 0-4.2% Specification of Carotenoids w/w% Total Astaxanthins: 2.9-11.1% 9-Z astaxanthin: 0.3-9.0 13-Z astaxathin: 0.2-5.7 Astaxanthin monoesters: 79.8-91.5% Astaxanthin diesters: 0.16-4.0% B-Carotene: 0.01-0.3% Lutein: 0-1.8% Canthaxanthin: 0-1.30% Microbiological criteria: Total aerobic bacteria: <3000 CFU/g Yeast and Moulds: <100 CFU/g Coliforms: <10 CFU/g E. coli: Negative Salmonella: Negative Staphylococcus: Negative **Description/Definition:** Basil (Ocimum basilicum L.) belongs to the family "Lamiaceae" within the order "Lamiales". Post-harvest the seeds are cleaned mechanically. Flowers, leaves and other parts of the plant are removed. Highest level of purity of Basil seeds has to be ensured by Basil seed (Ocimum basilicum) filtering (optical, mechanical). Production process of fruit juices and fruit juice blends containing Basil seeds (Ocimum basilicum L.) includes seed pre-hydration and pasteurisation steps. Microbiological controls and monitoring systems are in place. During production,

pasteurization steps and microbiological analyses of samples of basil seeds, the fruit juice and the final product shall ensure highest level

	of confidence in the safety of the production process and the final product. Dry Matter: 94.1% Protein: 20.7% Fat: 24.4% Carbohydrate: 1.7% Crude Fibre*: 40.5% Dietary Fibre**
	(*) Crude fibre is the part of dietary fibre mainly consisting of indigestible cellulose, pentosans and lignin (**) Method: AOAC 958.29 Ash: 6.78%
Fermented black bean extract	Description/Definition: Fermented black bean extract (Touchi extract) is a fine light-brown protein-rich powder obtained by water extraction of small soybeans (Glycine max (L.) Merr.) fermented with Aspergillus oryzae. The extract contains an α-glucosidase inhibitor. Characteristics: Fat: ≤ 1 % Protein: ≥ 55 % Water: ≤ 7 % Ash: ≤ 10 % Carbohydrate: ≥ 20 % a-glucosidase inhibitory activity: IC50 min 0.025 mg/ml Soy isoflavone: ≤ 0.3 g/100 g
Bovine lactoferrin	Description/Definition: Bovine lactoferrin is a protein that occurs naturally in cows' milk. It is an iron-binding glycoprotein of approximately 77 kDa and consists of a single polypeptide chain of 689 amino acids. Production process: Bovine lactoferrin is isolated from skimmed milk or cheese whey via ion exchange and subsequent ultra-filtration steps. Finally it is dried by freeze drying or spraying and the large particles are sieved out. It is a virtually odourless, light pinkish powder. Physical-Chemical properties of Bovine lactoferrin: Moisture: < 4.5% Ash: < 1.5% Arsenic: < 2 mg/kg

	Iron: < 350 mg/kg Protein: > 93% of which bovine lactoferrin: > 90% of which other proteins: < 5% pH (2% solution, 20 °C): 5.2-7.2 Solubility (2% solution, 20 °C): complete
Buglossoides arvensis seed oil	Description/Definition: Refined Buglossoides oil is extracted from the seeds of <i>Buglossoides arvensis</i> (L.) I.M.Johnst Alpha-linolenic acid: $\geq 35\%$ w/w of total fatty acids Stearidonic acid: $\geq 15\%$ w/w of total fatty acids Linoleic acid: $\geq 8\%$ w/w of total fatty acids Trans fatty acids: $\leq 2\%$ w/w of total fatty acids Acid value: ≤ 0.6 mg KOH/g Peroxide value: ≤ 5 meq /kg Unsaponifiable content: $\leq 2\%$ Protein content (total nitrogen): ≤ 10 μg/ml Pyrrolizidine alkaloids: Not detectable with a detection limit of 4 μg/kg
Chewing gum base (monomethoxypolyethylene glycol)	Description/Definition: The novel food ingredient is a synthetic polymer (Patent number WO2006016179). It consists of branched polymers of monomethoxypolyethylene glycol (MPEG) grafted onto polyisoprene-graft-maleic anhydride (PIP-g-MA), and unreacted MPEG (less than 35 % by weight). White to off-white colour. CAS No.: 1246080-53-4 Characteristics: Moisture: < 5% Aluminium: < 3 mg/kg Lithium: < 0.5 mg/kg Nickel: < 0.5 mg/kg Residual anhydride: < 15 μmol/g Polydispersity index: < 1.4

	Isoprene: < 0.05 mg/kg Ethylene oxide: < 0.2 mg/kg Free maleic anhydride: < 0.1% Total oligomeres (less than 1 000 Dalton): ≤ 50 mg/kg Ethylene glycol: < 200 mg/kg Diethylene glycol: < 30 mg/kg Monoethylene glycol methyl ether: < 3 mg/kg Diethylene glycol methyl ether: < 4 mg/kg Triethylene glycol methyl ether: < 7 mg/kg
	1,4-Dioxane: < 2 mg/kg Formaldehyde: < 10 mg/kg
Chewing gum base (Methyl vinyl ether-maleic anhydride copolymer)	Description/Definition: Methyl vinyl ether-maleic anhydride copolymer is an anhydrous copolymer of methyl vinyl ether and maleic anhydride. Free-flowing, white to white-off powder CAS No: 9011-16-9 Purity: Assay value: At least 99.5% in dry matter Specific viscosity (1 % MEK): 2-10 Residual methyl vinyl ether: ≤ 150 ppm Residual maleic anhydride: ≤ 250 ppm Acetaldehyde: ≤ 500 ppm Dilauroyl peroxide: ≤ 15 ppm Total heavy metals: ≤ 10 ppm Microbiological criteria: Total aerobic plate count: ≤ 500 CFU/g Mould/yeast: ≤ 500 CFU/g Escherichia coli: Negative to test Salmonella spp.: Negative to test Staphylococcus aureus: Negative to test Pseudomonas aeruginosa: Negative to test

Chia oil (Salvia hispanica)	Description/Definition: Chia oil is produced from Chia (Salvia hispanica L.) seeds (99.9 % pure) by cold-pressing. No solvents are used and, once pressed, the oil is held in decantation tanks and a filtration process employed to remove impurities. It can also be produced by extraction with supercritical CO_2 . Production process: Produced by cold pressing. No solvents are used and, once pressed, the oil is held in decantation tanks and a filtration process employed to remove impurities. Acidity expressed as oleic acid: $\leq 2\%$ Peroxide value: $\leq 10 \text{ meq/kg}$ Insoluble impurities: $\leq 0.05\%$ Alpha linolenic acid: $\geq 60\%$ Linoleic acid: $\leq 10\%$
Chia seeds (Salvia hispanica)	Description/Definition: Chia (Salvia hispanica L.) is a summer annual herbaceous plant belonging to the Labiatae family. Post-harvest the seeds are cleaned mechanically. Flowers, leaves and other parts of the plant are removed. Dry matter: 90-97% Protein: 15-26% Fat: 18-39% Carbohydrate (*): 18-43% Crude Fibre (**): 18-43% Ash: 3-7% (*) Carbohydrates include the fibre value (EU: CH are available carbohydrates = sugar + starch) (**) Crude fibre is the part of fibre made mainly of indigestible cellulose, pentosans and lignin Production process: Production process of fruit juices and fruit juice blends containing Chia seeds includes seed pre-hydration and pasteurisation steps. Microbiological controls and monitoring systems are in place.
Chitin-glucan from Aspergillus niger	Description/Definition: Chitin-glucan is obtained from the mycelium of <i>Aspergillus niger</i> ; it is a slightly yellow, odourless, free-flowing powder. It has a dry matter content of 90% or more.

	Chitin-glucan is composed largely of two polysaccharides: -chitin, composed of repeating units of N-acetyl-D-glucosamine (CAS No: 1398-61-4), -beta (1, 3)-glucan, composed of repeating units of D-glucose (CAS No: 9041-22-9). Loss on drying: $\leq 10\%$ Chitin-glucan: $\geq 90\%$ Ratio of chitin to glucan: $30:70$ to $60:40$ Ash: $\leq 3\%$ Lipids: $\leq 1\%$ Proteins: $\leq 6\%$
Chitin-glucan complex from Fomes fomentarius	Description/Definition: Chitin-glucan complex is obtained from the cell walls of the fruit bodies of the fungus Fomes fomentarius. It consists primarily of two polysaccharides: • Chitin, composed of repeating units of N-acetyl-D-glucosamine (CAS No: 1398-61-4); • Beta-(1,3)(1,6)-D-glucan, composed of repeating units of D-glucose (CAS No: 9041-22-9). The production process consists of several steps, including: cleaning, reduction in size and grinding, softening in water and heating in an alkaline solution, washing, drying. No hydrolysis is applied during the production process. Appearance: Powder, odourless, flavourless, brown Moisture: ≤ 15% Ash: ≤ 3% Chitin-glucan: ≥ 90% Ratio of chitin to glucan: 70:20 Total carbohydrates, excluding glucans: ≤ 0.1% proteins: ≤ 6% lipids: ≤ 1% Melanins: ≤ 8.3% Additives: None pH: 6.7-7.5 Lead (ppm): ≤ 1.00 Cadmium (ppm): ≤ 1.00 Mercury (ppm): ≤ 0.03 Arsenic (ppm): ≤ 0.20

	Total mesophilic bacteria: $\leq 1~000/g$ Yeast and moulds: $\leq 1~000/g$ Coliforms at $30~^\circ\text{C}$: $\leq 1~000/g$ $E.~coli$: $\leq 10/g$ Salmonella and other pathogenic bacteria: Absent/25 g
Chitosan extract from fungi (Agaricus bisporus; Aspergillus niger)	Description/Definition: The chitosan extract (containing mainly poly(D-glucosamine)) is obtained from stems of <i>Agaricus bisporus</i> or from the mycelium of <i>Aspergillus niger</i> . The patented production process consists of several steps, including: extraction and deacetylation (hydrolysis) in alkaline medium, solubilisation in acidic medium, precipitation in alkaline medium, washing and drying. Synonym: Poly(D-glucosamine) Chitosan CAS number: 9012-76-4 Chitosan formulae: (C6H11NO4)n Chitosan content (% w/dry weight): 85 Glucan content (% w/dry weight): ≤ 15 Loss on drying (% w/dry weight): ≤ 10 Viscosity 1% in acetic acid 1%: 1-15 Degree of acetylation (in 'monl/wet weight): 0-30 Viscosity (1% in acetic acid 1%) (mPa.s): 1-14 for chitosan from Aspergillus niger; 12-25 for chitin from <i>Agaricus bisporus</i> Ash (% w/dry weight): ≤ 2 Total heavy metals (ppm): ≤ 2 Total heavy metals (ppm): ≤ 0.1 Lead (ppm): ≤ 0.1 Lead (ppm): ≤ 1 Cadmium (ppm): ≤ 0.5 Aerobic count (cfu/g): ≤ 1000 Yeast and mould count (cfu/g): ≤ 1000 Escherichia coli (cfu/g): ≤ 10 Entreobacteriacare (cfu/g): ≤ 10 Entreobacteriacare (cfu/g): ≤ 10 Salmonella: absence/25g

	Listeria monocytogenes: absence/25g Particle size: > 100 nm Taped density (g/cm3): 0.7-1 Appearance: fine free-flowing powder Aspect: Off- white to slightly brownish Odour: odourless Fat binding capacity 800x (w/wet weight): pass
Chromium picolinate	Description/ Definition: Chromium picolinate is a reddish free-flowing powder, slightly soluble in water at pH 7. The salt is also soluble in polar organic solvents. Chemical name: tris(2pyridinecarboxylato-N,O)chromium(III) or 2-pyridinecarboxylic acid chromium(III) salt CAS No.: $14639-25-9$ Chemical formula: $Cr(C_6H4NO_2)_3$ Chemical characteristics: Chromium Picolinate: $\geq 95\%$ Chromium (III): $12-13\%$ Chromium (VI): not detected Water: $\leq 4\%$
Citicoline	Description/ Definition: Citicoline is composed of cytosine, ribose, pyrophosphate and choline. White crystalline powder Chemical name: Choline cytidine 5'-pyrophosphate, Cytidine 5'-(trihydrogen diphosphate) P'-[2-(trimethylammonio)ethyl]ester inner salt Chemical formula: $C_{14}H_{26}N_4O_{11}P_2$ Molecular weight: 488.32 g/mol CAS No.: 987-78-0 pH (sample solution of 1%): 2.5-3.5 Purity: Assay value: ≥ 98% of dry matter Loss on drying (100 °C for 4 hours): ≤ 5.0% Ammonium: ≤ 0.05% Total heavy metals (as Pb): ≤ 10 ppm

	Arsenic: Not more than 2 ppm Free phosphoric acids: ≤ 0.1% 5'-Cytidylic acid: ≤ 1.0% Microbiological criteria: Total plate count: ≤ 1 000 cfu/g Yeast and moulds: ≤ 100 cfu/g Escherichia coli: Absent in 1 g
Clostridium butyricum (CBM 588)	Description/Definition: Clostridium butyricum (CBM 588) is a Gram-positive, spore-forming, obligate anaerobic, non-pathogenic, non-genetically modified bacterium. Microbiological criteria: Total viable aerobic count: ≤ 10³ CFU/g Escherichia coli: Not detected in 1 g Staphylococcus aureus: Not detected in 1 g Pseudomonas aeruginosa: Not detected in 1 g Yeast and moulds: ≤ 10² CFU/g
Extract of defatted cocoa powder	Appearance: Dark brown powder free of visible impurities Cocoa (<i>Theobroma cacao</i> L.) Extract Physical and chemical properties: Polyphenol content: Min 55.0% GAE Theobromine content: Max 10.0% Ash content: Max 5.0% Moisture content: Max 8.0% Bulk density: 0.40-0.55 g/cm³ pH: 5.0 - 6.5 Residual solvent: Max 500 ppm
Low fat cocoa extract	Low fat Cocoa (<i>Theobroma cacao</i> L.) extract Appearance: Dark red to purple powder Cocoa extract, concentrate: Min 99% Silicon dioxide (technological aid): Max 1%

	Cocoa flavanols: Min. 300 mg/g (-) Epicatechin: Min. 45 mg/g Loss on drying: Max. 5%
Coriander seed oil	Description/Definition: Coriander seed oil is an oil containing glycerides of fatty acids that is produced from the seeds of the coriander plant <i>Coriandrum sativum</i> L. Slight yellow colour, bland taste Composition of fatty acids: Palmitic acid (C16:0): 2-5% Stearic acid (C18:0): < 1.5% Petroselinic acid (cis-C18:1 (n-12)): 60-75% Oleic acid (cis-C18:1 (n-9)): 8-15% Linoleic acid (C18:2): 12-19% α-Linolenic acid (C18:3): < 1.0% Trans fatty acids: ≤ 1% CAS No.: 8008-52-4 Purity: Refractive index (20°C): 1.466-1.474 Acid value: ≤ 0.6 mg KOH/g Peroxide value: ≤ 5 meq/kg Iodine value: 88-102 units Saponification value: 186-198 mg KOH/g Unsaponifiable matter: ≤ 15 g/kg
α-cyclodextrin	Description/Definition: A non-reducing cyclic saccharide consisting of six α -1,4-linked D-glucopyranosyl units produced by the action of cyclodextrin glucosyltransferase (CGTase, EC 2.4.1.19) on hydrolyzed starch. Recovery and purification of α-cyclodextrin may be carried out using one of the following procedures: precipitation of a complex of α-cyclodextrin with 1-decanol, dissolution in water at elevated temperature and re-precipitation, steam-stripping of the complexant, and crystallisation of α-cyclodextrin from the solution; or chromatography with ion-exchange or gel filtration followed by crystallisation of α-cyclodextrin from the purified mother liquor; or membrane separation methods such as ultra-filtration and reverse osmosis: Description: Virtually odorless, white or almost white crystalline solid.

Synonyms: α-cyclodextrin, α-dextrin, cyclohexaamylose, cyclomaltohexaose, α-cycloamylase

Chemical name: Cyclohexaamylose

CAS No.: 10016-20-3

Chemical formula: $(C_6H_{10}O_5)_6$

Formula weight: 972.85 Assay: ≥ 98% (dry basis)"

Identification:

Melting range: Decomposes above 278 °C

Solubility: Freely soluble in water; very slightly soluble in ethanol Specific rotation: [α]D 25: Between +145° and +151° (1 % solution)

Chromatography: The retention time for the major peak in a liquid chromatogram of the sample corresponds to that for α -cyclodextrin in a chromatogram of reference α -cyclodextrin (available from *Consortium für Elektrochemische Industrie GmbH*, *München*, *Germany or Wacker Biochem Group*, *Adrian*, *MI*, *USA*) using the conditions described in the METHOD OF ASSAY

Purity:

Residual complexant: ≤ 20 mg/kg

(1-decanol)

Reducing substances: $\leq 0.5\%$ (as glucose)

Sulfated ash: $\leq 0.1\%$ Lead: ≤ 0.5 mg/kg

Method of assay:

Determine by liquid chromatography using the following conditions:

Sample solution: Weigh accurately about 100 mg of test sample into a 10-ml volumetric flask and add 8 ml of deionised water. Dissolve the sample completely using an ultra-sonification bath (10-15 min) and dilute to the mark with purified deionised water. Filter through a 0.45-micrometer filter

Reference solution: Weigh accurately about 100 mg of α-cyclodextrin into a 10-ml volumetric flask and add 8 ml of deionised water.

Dissolve the sample completely using an ultra-sonification bath and dilute to the mark with purified deionised water.

Chromatography: Liquid chromatograph equipped with a refractive index detector and an integrating recorder.

Column and packing: Nucleosil-100-NH₂ (10 µm) (Macherey & Nagel Co. Düren, Germany) or similar

Length: 250 mm Diameter: 4 mm Temperature: 40 °C

	Mobile phase: acetonitrile/water (67/33, v/v) Flow rate: 2.0 ml/min Injection volume: 10 μ l Procedure: Inject the sample solution into the chromatograph, record the chromatogram, and measure the area of the α -CD peak. Calculate the percentage of α -cyclodextrin in the test sample as follows: % α -cyclodextrin (dry basis) = $100 \times (AS/AR)$ (WR/WS) where As and AR are the areas of the peaks due to α -cyclodextrin for the sample solution and reference solution, respectively. Ws and WR are the weights (mg) of the test sample and reference α -cyclodextrin, respectively, after correcting for water content.
γ-cyclodextrin	Description/Definition: A non-reducing cyclic saccharide consisting of eight α-1,4-linked D-glucopyranosyl units produced by the action of cyclodextrin glucosyltransferase (CGTase, EC 2.4.1.19) on hydrolysed starch. Recovery and purification of γ-cyclodextrin may be carried out by precipitation of a complex of γ-cyclodextrin with 8-cyclohexadecen-1-one, dissolution of the complex with water and n-decane, steam-stripping of the aqueous phase and recovery of gamma-CD from the solution by crystallisation. Virtually odourless, white or almost white crystalline solid" Synonyms: γ-cyclodextrin, γ-dextrin, cyclooctaamylose, cyclomaltooctaose, γ-cycloamylase Chemical name: Cyclooctaamylose CAS number: 17465-86-0 Chemical formula: (C ₆ H ₁₀ O ₅) ₈ Assay: ≥ 98% (dry basis) Identification: Melting range: Decomposes above 285 °C Solubility: Freely soluble in water; very slightly soluble in ethanol Specific rotation: [α]D 25: between + 174° and + 180° (1 % solution) Purity: Purity: Water: ≤ 11% Residual complexant (8-cyclohexadecen-1-one (CHDC)): ≤ 4 mg/kg Residual solvent (n-decane): ≤ 6mg/kg Reducing substances: ≤ 0.5% (as glucose) Sulphated ash: ≤ 0.1%

Dextran preparation produced by Leuconostoc mesenteroides	1. Powdered form: Carbohydrates: 60% with: (Dextran: 50 %, Mannitol: 0.5%, Fructose: 0.3%, Leucrose: 9.2 %) Protein: 6.5% Lipid: 0.5% Lactic acid: 10% Ethanol: traces Ash: 13% Moisture: 10% 2. Liquid form: Carbohydrates: 12% with: (Dextran: 6.9%, Mannitol: 1.1%, Fructose: 1.9%, Leucrose: 2.2 %) Protein: 2% Lipid: 0.1% Lactic acid: 2% Ethanol: 0.5% Ash: 3.4% Moisture: 80%
Diacylglycerol oil of plant origin	Description/Definition: Manufactured from glycerol and fatty acids derived from edible vegetable oils, in particular from soybean oil (<i>Glycine max</i>) or rapseed oil (<i>Brassica campestris, Brassica napus</i>) using a specific enzyme. Acylglycerol Distribution: Diacylglycerols (DAG): ≥ 80% 1,3-Diacylglycerols (1,3-DAG): ≥ 50% Triacylglycerols (TAG): ≤ 20% Monoacylglycerols (MAG): ≤ 5% Fatty Acid Composition (MAG, DAG, TAG): Oleic acid (C18:1): 20-65% Linoleic acid (C18:2): 15-65% Linolenic acid (C18:3): ≤ 15% Saturated fatty acids: ≤ 10% Others:

	$\label{eq:Acid value:} $$A cid value: $\le 0.5 \text{ mg KOH/g}$$ Moisture and volatile: $\le 0.1\%$$ Peroxide value: $\le 1 \text{ meq/kg}$$ Unsaponifiables: $\le 2\%$$ Trans fatty acids $\le 1\%$$ MAG = monoacylglycerols, DAG = diacylglycerols, TAG = triacylglycerols$
Dihydrocapsiate (DHC)	
Dried extract of <i>Lippia</i> citriodora from cell cultures	Cell cultures: HTN®Vb
Echinacea angustifolia extract	Extract of the roots of <i>Echinacea angustifolia</i> obtained from tissue culture plant are substantial equivalent to a commercially available extract from root of <i>Echinacea angustifolia</i> obtained in ethanol-water titrated to 4% echinacoside.
Echium plantagineum oil	Description/Definition: Echium oil is the pale yellow product obtained by refining oil extracted from the seeds of <i>Echium plantagineum</i> L. Stearidonic acid: \geq 10% w/w of total fatty acids Trans fatty acids: \leq 2% (w/w of total fatty acids) Acid value: \leq 0,6 mg KOH/g Peroxide value: \leq 5 meq O_2 /kg Unsaponifiable content: \leq 2 % Protein content (total nitrogen): \leq 20 µg/mL

	Pyrrolizidine alkaloids: Not detectable wi	th a detection limit 4 μg/kg	
	Description/Definition:		
Epigallocatechin gallate as a purified extract from grean tea leaves (Camellia sinensis)	0 1	gallo-caechin gallate (EGCG), and er atechin-3-gallate CG)	.) Kuntze) in the form of a fine, off-white to pale pink powder. has a melting point between approx. 210 and 215 °C
L-ergothioneine	Definition Chemical name (IUPAC): (2S)-3-(2-thiox Propanoate Chemical formula: C ₉ H ₁₅ N ₃ O ₂ S Molecular mass: 229.3 Da CAS No.: 497-30-3 Parameter Appearance Optical rotation Chemical purity	Specification White powder $[\alpha]_D \ge (+) \ 122^\circ \ (c = 1, H_20)^a)$ $\ge 99.5\%$	2-(trimethylammonio)- Method Visual Polarimetry HPLC [Eur. Ph. 2.2.29]

	≥99%	1H-NMR
Identification	Compliant with the structure	1H-NMR
	C: 47.14 ± 0.4%	
	H: $6.59 \pm 0.4\%$	
	N: $18.32 \pm 0.4\%$	Elemental analysis
Total residual solvents	[Eur. Ph. 01/2008:50400]	Gas chromatography
(methanol, ethyl acetate, isopropanol, ethanol)	< 1000 ppm	[Eur. Ph. 01/2008:20424]
Loss on drying	Internal standard < 0.5%	[Eur. Ph. 01/2008:20232]
Impurities	< 0.8%	HPLC/GPC or 1H-NMR
Heavy metals ^{b) c)}		
Lead	< 3 ppm	ICP/AES
Cadmium	< 1 ppm	(Pb, Cd)
Mercury	< 0.1 ppm	Atomic fluorescence (Hg)
Microbiological specifications ^{b)}		
Total viable aerobic count (TVAC)	$\leq 1 \times 10^3 \text{ CFU/g}$	[Eur. Ph. 01/2011:50104]
Total yeast and mould count (TYMC)	$\leq 1 \times 10^2 \text{ CFU/g}$	
Escherichia coli	Absent in 1 g	
1	1	resonance; HPLC: high-performance liquid chromatograph
GPC: gel permeation chromatography; IC	P/AES: Inductively coupled plasr	na atomic emission spectroscopy;
CFU: colony-forming units.		
a) Lit. $[\alpha]_D = (+) 126.6^{\circ} (c = 1, H_20)$		
b) Analyses conducted on each batch c) Maximum levels in accordance with Re		

	Description/Definition:
	Ferric Sodium EDTA (ethylenediaminetetraacetic acid) is an odourless free-flowing, yellow to brown powder with a chemical purity of
	more than 99 % (w/w). It is freely soluble in water.
	Chemical formula: C ₁₀ H ₁₂ FeN ₂ NaO ₈ · 3H ₂ O
	Chemical characteristics:
	pH of 1 % solution: 3.5-5.5
Ferric Sodium EDTA	Iron: 12.5-13.5 %
	Sodium: 5.5%
	Water: 12.8%
	Organic matter (CHNO): 68.4%
	EDTA: 65.5-70.5%
	Water insoluble matter: ≤ 0.1 %
	Nitrilo-triacetic acid: ≤ 0.1 %
	Description/Definition:
	Ferrous ammonium phosphate is a grey/green fine powder, practically insoluble in water and soluble in dilute mineral acids.
	CAS No.: 10101-60-7
	Chemical Formula: FeNH ₄ PO ₄
	Chemical characteristics:
Ferrous ammonium phosphate	pH of 5 % suspension in water: 6.8-7.8
	Iron (total): $\geq 28\%$
	Iron (II): 22-30% (w/w)
	Iron (III): $\leq 7\%$ (w/w)
	Ammonia: 5-9 % (w/w)
	Water: ≤ 3%
Fish peptides from Sardinops sagax	Description/Definition:
	The novel food ingredient is a peptide mixture, which is obtained by an alkaline protease-catalysed hydrolysis of fish (<i>Sardinops sagax</i>)
	muscle, subsequent isolation of the peptide fraction by column chromatography, concentration under vacuum and spray drying.
	Yellowish white powder
	Peptides ⁽¹⁾ (short chain peptides, dipeptides and tripeptides with a molecular weight of less than 2 kDa): ≥ 85 g/100 g
	Val-Tyr (dipeptide): 0.1-0.16 g/100 g

	Ash: $\leq 10 \text{ g}/100 \text{ g}$ Moisture: $\leq 8 \text{ g}/100 \text{ g}$ (1) Kjeldahl method
Flavonoids from Glycyrrhiza glabra	Description/Definition: Glavonoid is an extract derived from the roots or rootstock of <i>Glycyrrhiza glabra</i> L. by extraction with ethanol followed by further extraction of this ethanolic extract with medium-chain triglycerides. It is a dark-brown coloured liquid, containing 2.5% to 3.5% of glabridin. Moisture: < 0.5% Ash: < 0.1% Peroxide value: < 0.5 meq/kg Glabridin: 2.5-3.5% of fat Glycyrrhizinic acid: < 0.005% Fat including polyphenol-type substances: ≥ 99% Protein: < 0.1%
	Carbohydrates: not detectable

	Description/Definition:
	2'-O-fucosyllactose is a white to off-white powder and the liquid concentrate $(45\% \pm 5\% \text{ w/v})$ aqueous solution is a colourless to slight yellow clear aqueous solution. The 2'-O-fucosyllactose is produced by a specific authorised synthetic (synth.) or microbiological (microb.) process.
	Source (microb.): genetically modified strain of <i>Escherichia coli</i> BL21
	Chemical name : α -l-Fucopyranosyl- $(1\rightarrow 2)$ - β -d-galactopyranosyl- $(1\rightarrow 4)$ -d-glucopyranose
	Chemical formula: C ₁₈ H ₃₂ O ₁₅
	CAS No: 41263-94-9
	Molecular weight: 488.44 g/mol
	Purity:
	Assay (water free): $\geq 94\%$ (synth.), $\geq 90\%$ (microb.)
	D-Lactose: $\leq 3.0 \text{ w/w} \% \text{ (synth.)}, \leq 5.0 \% \text{ (microb.)}$
	L-fucose: $\leq 1.0 \text{ w/w \% (synth.)}, \leq 3.0 \% \text{ (microb.)}$ Difucosyl-d-lactose isomers: $\leq 1.0 \text{ w/w \% (synth.)}, \leq 3.0 \% \text{ singly (microb.)}$
	2'-Fucosyl-d-lactulose: $\leq 1.0 \text{ w/w} \%$ (synth.), .), $\leq 5.0 \%$ singly (microb.)
2'-O-fucosyllactose	pH (20 °C, 5 % solution): 3.2-7.0
	Water (%): $\leq 9.0\%$ (synth. and microb. powder)
	Ash, sulphated: ≤ 1.5% (synth.), total Ash: ≤0.5. % (microb. powder and liquid)
	Acetic acid: $\leq 1.0\%$ (synth.)
	Residual solvents (synth.) (methanol, 2-propanol, methyl acetate, acetone): ≤50 mg/kg singly, ≤200 mg/kg in combination)
	Residual proteins: $\leq 0.01\%$ (synth.), (0.001% microb. powder and liquid)
	Palladium: $\leq 0.1 \text{ mg/kg (synth.)}$
	Nickel: $\leq 3.0 \text{ mg/kg (synth.)}$
	Lead: 0.02 mg/kg (microb. powder and liquid)
	Arsenic: 0.02 mg/kg (microb. powder and liquid)
	Cadmium: 0.01 mg/kg (microb. powder and liquid)
	Mercury: 0.5 mg/kg (microb. powder and liquid)
	Aflatoxin M ₁ : 0.025 μg/kg (microb. powder and liquid)
	Microbiological criteria:
	Aerobic mesophilic bacteria total count: $\leq 500 \text{ CFU/g (synth.)}$

	Total plate count: ≤ 10 ⁴ CFU/g (microb. powder), ≤ 5000 CFU/g (microb. liquid) Yeasts and Moulds: ≤ 10 CFU/g (synth.), ≤10 CFU/g (microb. powder and liquid), Enterphaseriaeiae absent in 11 g (microb. powder and liquid)
	Enterobaceriaciae: absent in 11 g (microb. powder and liquid) Salmonella: negative/100 g (microb. powder), negative/200 ml (microb. liquid)
	Chronobacter: negative/100 g (microb. powder), negative/200 ml (microb. liquid) Residual endotoxins: ≤ 10 EU/mg (synth. and microb. powder), ≤ 10 EU/ml (microb. liquid)
	GOS: min 46% Dry Matter (DM)
	Lactose: max 40% DM
Galacto-oligosaccharide (GOS)	Glucose: max 27% DM
Guines ongosaccian de (005)	Galactose: min 0.8% DM
	Ash: max 4% DM
	Protein: max 5% DM
	White crystalline odourless powder
Glucosamine HCl from	Molecular formula: C ₆ H ₁₃ NO ₅ •HCl
Aspergillus niger	Relative molecular mass: 215.63 g/mole
Tisperguus mger	D-Glucosamine HCl 98.0-102.0% of reference standard (HPLC)
	Specific rotation + 70.0° - + 73.0°
	White crystalline odourless powder
Glucosamine sulphate KCl	Molecular formula: (C ₆ H ₁₄ NO ₅) ₂ SO ₄ •2KCl
from Aspergillus niger	Relative molecular mass: 605.52 g/mole
1101171Sperguus mger	D-Glucosamine Sulfate 2KCl 98.0-102.0% of reference standard (HPLC)
	Specific Rotation +50.0° to +52.0°
Glucosamine sulphate NaCl from Aspergillus niger	White crystalline odourless powder
	Molecular formula: C ₆ H ₁₄ NO ₅) ₂ SO ₄ • 2NACL
	Relative molecular mass: 573.31 g/mole
11 om risperguus inger	D-Glucosamine HCl: 98-102% of reference standard (HPLC)
	Specific Optical Rotation: +52° - +54°

	Description/Definition:
	Native guar gum is the ground endosperm of seeds from natural strains of guar <i>Cyamopsis tetragonolobus</i> L. Taub. (<i>Leguminosae</i> family). It consists of a high molecular weight polysaccharide, primarily composed of galactopyranose and mannopyranose units combined through glycosidic linkages, which may be described chemically as a galactomannan (galactomannan content not less than 75%).
	Appearance: White to yellowish powder
	Molecular weight: Between 50 000 – 8 000 000 Daltons
	CAS number: 9000-30-0
	EINECS Number: 232-536-8 Purity: As specified by Directive No 2008/84/ EC laying down specific purity criteria on food additives other than colours and
	sweeteners & by Regulation (EC) No. 258/2010 imposing special conditions on the imports of guar gum originating in or consigned from India due to contamination risks by pentachlorophenol and dioxins, or by any possible subsequent instruments concerning the same
	subject and laying down new purity criteria.
	Physico-chemical properties:
Guar Gum	Powder
Guar Guin	Shelf-life: 2 years
	Color: White
	Odour: Light
	Average diameter of particles: 60-70µm
	Moisture: Max 15%
	Viscosity * at 1 hour -
	Viscosity* at 2 hours: Min 3600 mPa.s
	Viscosity* at 24 hours: Min 4000 mPa.s
	Solubility: Soluble in hot and cold water
	pH for 10g/ L, at 25 °C - 6-7.5
	Flakes
	Useful life: 1 year
	Color: White/off white with absence or minimal presence of black spots
	Odour: Light

	Average diameter of particles: 1-10 mm Moisture: Max 15% Viscosity * at 1 hour: Min 3000 mPa.s Viscosity* at 2 hours — Viscosity* at 24 hours — Solubility - Soluble in hot and cold water pH for 10g/ L, at 25 °C - 5-7.5 * The measurements of viscosity are carried out under the following conditions: 1%, 25°C, 20 rpm
Heat-treated milk products fermented with <i>Bacteroides</i> xylanisolvens	Description/Definition: Heat-treated fermented milk products are produced with <i>Bacteroides xylanisolvens</i> (DSM 23964) as starter culture. Semi-skimmed milk (between 1.5% and 1.8% fat) or skimmed milk (0.5% fat or less) is pasteurised or ultra-heat-treated before starting the fermentation with <i>Bacteroides xylanisolvens</i> (DSM 23964). The resulting fermented milk product is homogenised and then heat-treated to inactivate <i>Bacteroides xylanisolvens</i> (DSM 23964). The final product does not contain viable cells of <i>Bacteroides xylanisolvens</i> (DSM 23964) ¹ . Modified DIN EN ISO 21528-2.
Ice Structuring Protein type III HPLC 12	Description/Definition: The Ice Structuring Protein (ISP) preparation is a light-brown liquid produced by submerged fermentation of a genetically-modified strain of food-grade baker's yeast ($Saccharomyces\ cerevisiae$) in which a synthetic gene for the ISP has been inserted into the yeast's genome. The protein is expressed and secreted into the growth medium where it is separated from the yeast cells by micro-filtration and concentrated by ultra-filtration. As a result, the yeast cells are not transferred into the ISP preparation as such or under an altered form. The ISP preparation consists of native ISP, glycosylated ISP and proteins and peptides from the yeast and sugars as well as acids and salts commonly found in food. The concentrate is stabilised with 10 mM citric acid buffer. Assay: $\geq 5\ g/l$ active ISP pH: 2.5-3.5 Ash: $\leq 2\%$ DNA: Not detectable

Isomaltooligosaccharide	Powder: Solubility (water) (%): > 99 Glucose (% dry basis): ≤ 5 Isomaltose + DP3 to DP9 (% dry basis): ≥ 90 Moisture (%): ≤ 4 Sulfated $ash(g/100g)$: ≤ 0.3 Heavy metals: Lead (mg/kg): ≤ 0.5 Arsenic (mg/kg): ≤ 0.5 Syrup: Dried solids ($g/100g$): > 75 Glucose (% dry basis): ≤ 5 Isomaltose + DP3 to DP9 (% dry basis): ≥ 90 pH: 4 - 6 Sulfated $ash(g/100g)$: ≤ 0.3 Heavy metals: Lead (mg/kg): ≤ 0.5 Arsenic (mg/kg): ≤ 0.5
Isomaltulose	Description/Definition: A reducing disaccharide that consists of one glucose and one fructose moiety linked by an alpha-1,6-glycosidic bond. It is obtained from sucrose by an enzymatic process. The commercial product is the monohydrate. Appearance: Virtually odourless, white or almost white crystals with a sweet taste Chemical name: $6\text{-O}-\alpha\text{-D}$ -glucopyranosyl-D-fructofuranose, monohydrate CAS No.: 13718-94-0 Chemical formula: $C_{12}H_{22}O_{11} \cdot H_2O$ Formula weight: 360.3 (monohydrate) Assay: ≥ 98% on the dry basis Loss on drying: ≤ 6.5% (60 °C, 5 hours) Lead: ≤ 0.1 mg/kg Determine using an atomic absorption technique appropriate to the specified level. The selection of sample size and method of sample preparation may be based on the principles of the method described in FNP 5 (1), 'Instrumental methods'

	(1) Food and Nutrition Paper 5 Rev. 2 — Guide to specifications for general notices, general analytical techniques, identification tests, test solutions and other reference materials (JECFA), 1991, 322 pp., English, ISBN 92-5-102991-1.
Lactitol	Description/Definition: Crystalline powder or colourless solution manufactured via catalytic hydrogenation of lactose. Crystalline products occur in anhydrous, monohydrate and dihydrate forms. Nickel is used as a catalyst. Chemical name: $4\cdot O\cdot\beta \cdot D\cdot G$ -Dalactopyranosyl-D-glucitol Chemical formula: $C_{12}H_{24}O_{11}$ Molecular weight: 344.31 g/mol CAS No: $585-86-4$ Solubility (in water): Very soluble in water Specific rotation [α] $D20 = + 13^{\circ}$ to $+ 16^{\circ}$ Assay: $\geq 95^{\circ}$ d.b (d.b - expressed on the dry weight basis) Water: $\leq 10.5^{\circ}$ Other polyols: $\leq 2.5^{\circ}$ d.b Reducing sugars: $\leq 0.2^{\circ}$ d.b Chlorides: ≤ 100 mg/kg d.b Sulphated ash: $\leq 0.19^{\circ}$ d.b Nickel: ≤ 2 mg/kg d.b Arsenic: ≤ 3 mg/kg d.b Lead: ≤ 1 mg/kg d.b
Lacto-N-neotetraose	Description/Definition: Lacto-N-neotetraose is a white to off-white powder. Produced by a specific authorised synthetic or microbiological proces. Chemical name : β-d-Galactopyranosyl-(1→4)-2-acetamido-2-deoxy-β-d-glucopyranosyl-(1→3)-β-d-galactopyranosyl-(1→4)-d-glucopyranose Chemical formula: $C_{26}H_{45}NO_{21}$ CAS No: 13007-32-4 Molecular weight: 707.63 g/mol Purity: Assay (water free): ≥ 92%

	D-Lactose: ≤ 3.0 w/w % Lacto-N-triose II: ≤ 3.0 w/w % Lacto-N-neotetraose fructose isomer: ≤ 1.0 w/w % para-lacto-N-neohexaose: ≤ 3.0 w/w % pH (20 °C, 5 % solution): 4.0 -7.0 Water (%): ≤ 9.0 % Ash, sulphated: ≤ 0.4 % Acetic acid: ≤ 0.3 % Residual solvents (methanol, 2-propanol, methyl acetate, acetone): ≤ 50 mg/kg singly for 2-propanol, methyl acetate, acetone. ≤ 100 mg/kg for methanol. ≤ 200 mg/kg in combination Residual proteins: ≤ 0.01 % Palladium: ≤ 0.1 mg/kg Nickel: ≤ 3.0 mg/kg Microbiological criteria: Aerobic mesophilic bacteria total count: ≤ 500 CFU/g Yeasts: ≤ 10 CFU/g Moulds: ≤ 10 CFU/g
Lucerne leaf extract from Medicago sativa	Description/Definition: The Lucerne (<i>Medicago sativa</i> L.) is processed within 2 hours after harvest. It is chopped and crushed. By passing through an oleaginous-type press, the Lucerne provides a fibrous residue and press juice (10 % of dry matter). The dry matter of this juice contains about 35 % of crude protein. The press juice (pH 5,8-6,2) is neutralised. Preheating and vapour injection allows coagulation of proteins associated with carotenoid and chlorophyll pigments. The protein precipitate is separated by centrifugation and thereafter dried. After adding ascorbic acid the Lucerne protein concentrate is granulated and stored in inert gas or in cold storage. Composition: Protein: 45-60% Fat: 9-11% Free carbohydrates (soluble fibre): 1-2% Polysaccharides (insoluble fibre): 11-15% including cellulose: 2-3%

	Minerals: 8-13% Saponins: ≤ 1.4% Isoflavones: ≤ 350 mg/kg Coumestrol: ≤ 100 mg/kg Phytates: ≤ 200 mg/kg L-canavanine: ≤ 4.5 mg/kg
Lycopene	Description/Definition: Synthetic lycopene is produced by the Wittig condensation of synthetic intermediates commonly used in the production of other carotenoids used in food. Synthetic lycopene consists of ≥ 96 % lycopene and minor quantities of other related carotenoid components. Lycopene is presented either as a powder in a suitable matrix or an oily dispersion. The colour is dark red or red-violet. Antioxidative protection has to be assured. Chemical name: Lycopene CAS No.: $502-65-8$ (all-trans lycopene) Chemical formula: $C_{40}H_{56}$ Formula weight: 536.85
Lycopene from Blakeslea trispora	 Description/Definition: The purified lycopene from <i>Blakeslea trispora</i> consists of ≥ 95% lycopene and ≤ 5% other carotenoids. It is presented either as a powder in a suitable matrix or an oily dispersion. The colour is dark red or red-violet. Anti-oxidative protection has to be assured. Chemical name: Lycopene CAS No.: 502-65-8 (all trans lycopene) Chemical formula: C 40H 56 Formula weight: 536.85
Lycopene from tomatoes	 Description/Definition: The purified lycopene from tomatoes (<i>Lycopersicon esculantum</i> L.) consists of ≥ 95% lycopene and ≤ 5% other carotenoids. It is presented either as a powder in a suitable matrix or an oily dispersion. The colour is dark red or red-violet. Anti-oxidative protection has to be assured. Chemical name: Lycopene CAS No.: 502-65-8 (all trans lycopene) Chemical formula: C 40H 56

	Formula weight: 536.85	
	Description/Definition:	
Lycopene oleoresin from tomatoes	Lycopene oleoresin from tomatoes is obtained by solvent extraction of ripe tomatoes (<i>Lycopersicon esculentum Mill.</i>) with subsequent removal of the solvent. It is a red to dark brown viscous, clear liquid.	
	Total lycopene: 5-15% Thereof trans-lycopene: 90-95% Total carotenoids (calculated as lycopene): 6.5-16.5% Other carotenoids: 1.75% (Phytoene/phytofluene/β-carotene): (0.5 to 0.75/0.4 to 0.65/0.2 to 0.35%) Total tocopherols: 1.5-3.0% Unsaponifiable matter: 13-20% Total fatty acids: 60-75% Water (Karl Fischer): ≤ 0.5%	
Magnesium citrate malate	Description/Definition: Magnesium Citrate Malate with a 1:2 mixture of tri-magnesium di-citrate and magnesium malate for adults Magnesium citrate malate is a white to yellowish-white, amorphous powder. Chemical formula: Mg ₅ (C ₆ H ₅ O ₇) ₂ (C ₄ H ₄ O ₅) ₂ Chemical name: Pentamagnesium di-(2-hydroxybutanedioate)-di-(2-hydroxypropane-1,2,3-tricarboxylate) CAS No.: 1259381-40-2 Molecular weight: 763.99 Daltons (anhydrous) Solubility: Freely soluble in water (about 20 g in 100 ml) Description of the physical state: Amorphous powder Assay magnesium: 12.0-15.0% Loss on drying (120°C/4 hours): ≤ 15% Colour (solid): White to yellowish-white Colour (20% aqueous solution): Colourless to yellowish Appearance (20% aqueous solution): Clear solution pH (20% aqueous solution): Approx. 6.0 Impurities:	

	Chloride: $\leq 0.05\%$ Sulphate: $\leq 0.05\%$ Arsenic: ≤ 3 ppm Lead: ≤ 2 ppm Cadmium: ≤ 1 ppm Mercury: ≤ 0.1 ppm
Magnolia Bark Extract	Description/Definition: Magnolia bark extract is obtained from the bark of the plant <i>Magnolia officinalis</i> L. and produced with supercritical carbon dioxide. The bark is washed and oven dried to reduce moisture content before being crushed and extracted with supercritical carbon dioxide. The extract is dissolved in medical-grade ethanol and re-crystallised to yield magnolia bark extract. Magnolia bark extract is mainly composed of two phenolic compounds, magnolol and honokiol. Appearance: Light brownish powder Magnolol: ≥ 92.5% Honokiol: ≥ 0.5% Magnolol & Honokiol: ≥ 94% Total Eudesmol: ≤ 2% Moisture: 0.50% Arsenic (ppm): ≤ 0.5 Lead (ppm): ≤ 0.5 Total Heavy Metals (ppm): ≤ 10 Methyl eugenol (ppm): ≤ 10 Turbocurarine (ppm): ≤ 2 Total Alkaloid (ppm): ≤ 100
Maize-germ oil high in unsaponifiable matter	Description/Definition: Maize-germ oil high in unsaponifiable matter is produced by vacuum distillation and it is different from refined maize-germ oil in the concentration of the unsaponifiable fraction (1.2 g in refined maize-germ oil and 10 g in 'maize-germ oil high in unsaponifiable matter'). Unsaponifiable matter: $> 9 \text{ g/}100 \text{ g}$ Tocopherols: $\ge 1.3 \text{ g/}100 \text{ g}$ α-tocopherol (%): $10-25\%$ β-tocopherol (%): $< 3\%$

	γ-tocopherol (%): 68-89% δ-tocopherol (%): <7% Sterols, triterpenic alcohols, methylsterols: > 6.5 g/100 g Fatty acids in triglycerides: palmitic acid: 10-20% stearic acid: $4.3.3\%$ oleic acid: $4.3.3\%$ linoleic acid: $4.3.3\%$ linoleic acid: $4.3.3\%$ linoleic acid: 4.3% Acid value: 4.3% linoleic acid: 4.3% Acid value: 4.3% linoleic acid: 4.3% l
Methylcellulose	Description/Definition: Methyl cellulose is cellulose obtained directly from natural strains of fibrous plant material and partially etherified with methyl groups. Slightly hygroscopic white or slightly yellowish or greyish odourless and tasteless, granular or fibrous powder Chemical name: Methyl ether of cellulose Chemical formula: The polymers contain substituted anhydroglucose units with the following general formula: C6H7O2(OR1)(OR2)(OR3) where R1, R2, R3 each may be one of the following: -H -CH ₃ or -CH ₂ CH ₃ Molecular weight: Macromolecules: from about 20000 (n about 100) up to about 380 000 g/mol (n about 2,000) Assay: Content not less than 25 % and not more than 33 % of methoxyl groups (-OCH ₃) and not more than 5 % of hydroxyethoxyl groups (-OCH ₂ CH ₂ OH) Solubility: Swelling in water, producing a clear to opalescent, viscous, colloidal solution. Insoluble in ethanol, ether and chloroform. Soluble in glacial acetic acid.

	Loss on drying: $\leq 10\%$ (105 °C, 3 hours) Sulphated Ash: $\leq 1.5\%$ determined at 800 ± 25 °C pH: ≥ 5.0 and not more than 8.0 (1% colloidal solution) Arsenic: ≤ 3 mg/kg Lead: ≤ 2 mg/kg Mercury: ≤ 1 mg/kg Cadmium: ≤ 1 mg/kg
(6S)-5-methyltetrahydrofolic acid, glucosamine salt	Description/Definition: Chemical name: N-[4-[[[(6S)-2-amino-1,4,5,6,7,8-hexahydro-5-methyl-4-oxo-6-pteridinyl]methyl]amino]benzoyl]-L-glutamic acid, glucosamine salt Chemical formula: C ₃₂ H ₅₁ N ₉ O ₁₆ Molecular weight: 817.80 g/mol (anhydrous) CAS No.: 1181972-37-1 Appearance: Creamy to light-brown powder Purity: Diastereoisomeric purity: At least 99% of (6S)-5-methyltetrahydrofolic acid Glucosamine assay: 34-46% in dry basis 5-Methyltetrahydrofolic acid assay: 54-59% in dry basis Water: ≤8.0 % Lead: ≤2.0 ppm Cadmium: ≤1.0 ppm Mercury: ≤0.1 ppm Arsenic: ≤2.0 ppm Boron: ≤10 ppm Microbiological criteria: Total aerobic microbial count: ≤100 cfu/g Total combined yeast and moulds: ≤100 cfu/g Escherichia coli: Absent in 10g
Monomethylsilanetriol (Organic Silicon)	Description/Definition: Chemical name: Silanetriol, 1-methyl-

	Chemical formula: CH_6O_3Si Molecular weight: 94.14 g/mol CAS No: $2445-53-6$ Organic Silicon (monomethylsilanetriol) preparation (aqueous solution): Acidity (pH): $6.4-6.8$ Silicon: $100-150$ mg Si/l Lead: ≤ 1 µg/l Mercury: ≤ 1 µg/l Cadmium: ≤ 1 µg/l Arsenic: ≤ 3 µg/l Methanol: ≤ 5 mg/kg (residual presence)
Mycelial extract from Shiitake mushroom (Lentinula edodes)	Description/Definition: The novel food ingredient is a sterile aqueous extract obtained from the mycelium of <i>Lentinula edodes</i> cultivated in a submerged fermentation. It is a light brown, slightly turbid liquid. Lentinan is a β -(1-3) β -(1-6)-D-glucan which has a molecular weight of approximately 5×10^5 Daltons, a degree of branching of 2/5 and a triple helical tertiary structure. Composition of the mycelial extract from <i>Lentinula edodes</i> : Moisture: 98% Dry matter: 2% Free glucose: < 20 mg/ml Total protein (1): < 0.1 mg/ml N-containing constituents (2): < 10 mg/ml Lentinan: $0.8 - 1.2$ mg/ml (1) Bradford method (2) Kjeldahl method
Noni fruit juice (<i>Morinda</i> citrifolia)	Description/Definition: Noni fruits (fruits of <i>Morinda citrifolia</i> L.) are pressed. The obtained juice is pasteurised. An optional fermentation step before or after the pressing may occur. Rubiadin: ≤ 10 μg/kg Lucidin: ≤ 10 μg/kg

Noni fruit juice powder (Morinda citrifolia)	Description/Definition: Seeds and skin of the sun-dried fruits of <i>Morinda citrifolia</i> are separated. The obtained pulp is filtered to separate juice from the flesh. Desiccation of the produced juice occurs in one or two ways: Either by atomisation using maize maltodextrins, this mixture is obtained by keeping the rates of inflow of the juice and maltodextrins constant Or by zeodratation or drying and then mixing with an excipient, this process allows the juice to be dried initially and then mixed with maltodextrins (same amount as used in atomisation).
Noni fruit puree and concentrate (Morinda citrifolia)	Description/Definition: The fruits of <i>Morinda citrifolia</i> are harvested by hand. Seeds and skin may be separated mechanically from the pureed fruits. After pasteurisation, the puree is packaged in aseptic containers and stored under cold conditions. <i>Morinda citrifolia</i> concentrate is prepared from <i>M. citrifolia</i> puree by treatment with pectinolytic enzymes (50-60 °C for 1-2 h). Then the puree is heated to inactivate the pectinases and then immediately cooled. The juice is separated in a decanter centrifuge. Afterwards the juice is collected and pasteurised, prior to being concentrated in a vacuum evaporator from a brix of 6 to 8 to a brix of 49 to 51 in the final concentrate. Composition: Puree: Moisture: 89-93% Protein: <0.6 g/100 g Fat: ≤0.4 g/100 g Total carbohydrates: 5-10 g/100 g Fructose: 0.5-3.82 g/100 g Glucose: 0.5-3.82 g/100 g Glucose: 0.5-3.14 g/100 g Dietary fibre: <0.5-3 g/100 g 5,15-dimethylmorindol (1): 0.19-0.254 μg/mL Lucidin (1): Not detectable Alizarin (1): Not detectable Rubiadin (1): Not detectable Rubiadin (1): Not detectable Concentrate: Moisture: 48-53%

	Protein: 3-3.5 g/100 g Fat: < 0.04 g/100 g Ash: 4.5 -5 g/100 g Total carbohydrates: 37 -45 g/100 g Fructose: 9 -11 g/100 g Glucose: 9 -11 g/100 g Dietary fibre: 1.5 -5 g/100 g 5,15-dimethylmorindol (1): ≤ 0.254 µg/mL (1) By an HPLC-UV method developed and validated for the analysis of anthraquinones in Morinda citrifolia puree and concentrate. Limits of detection: 2.5 ng/mL (5 ,15 dimethylmorindol); 50.0 ng/mL (lucidin); 6.3 ng/mL (alizarin) and 62.5 ng/mL (rubiadin).
Noni leaves (Morinda citrifolia)	Description/Definition: After cutting, the leaves of <i>Morinda citrifolia</i> are subject to drying and roasting steps. The product has a particle size ranging from broken leaves to coarse powder with fines. It is of greenish brown to brown colour. Composition: Moisture: < 5.2% Protein: 17 - 20% Carbohydrate: 55-65% Ash: 10-13% Fat: 4-9% Oxalic acid: < 0.14% Tannic acid: < 2.7% 5,15-dimethylmorindol: < 47 mg/kg Rubiadin: non detectable, ≤10 μg/kg Lucidin: non detectable, ≤ 10 μg/kg
Noni fruit powder (<i>Morinda</i> citrifolia)	Description/Definition: Noni fruit powder is made from pulped noni pulped noni (<i>Morinda citrifolia L.</i>) fruits by freeze-drying. Fruits are pulped and seeds are removed. After freeze-drying during which water is removed from noni fruits, the remaining noni pulp is milled to a powder and encapsulated. Composition: Moisture: 5.3-9% Protein: 3.8-4.8 g/100 g

	Fat: 1-2 g/100 g Ash: 4.6-5.7 g/100 g Total carbohydrates: 80-85 g/100 g Fructose: 20.4-22.5 g/100 g Glucose: 22-25 g/100 g Dietary fibre: 15.4-24.5 g/100 g 5,15-dimethylmorindol (1): \leq 2.0 µg/mL (1) By an HPLC-UV method developed and validated for the analysis of anthraquinones in Morinda citrifolia. Limits of detection: 2.5 ng/mL (5,15 dimethylmorindol); 50.0 ng/mL (lucidin); 6.3 ng/mL (alizarin) and 62.5 ng/mL (rubiadin).
Odontella aurita microalgae	Silicon: 3.3% Crystalline silica: max 0.1-0.3% as impurity
Oil enriched with phytosterols/phytostanols	Description/Definition: Oil enriched with phytosterols/phytostanols is composed of an oil fraction and a phytosterol fraction. Acylglycerol Distribution: Free fatty acids (expressed as oleic acid): $\leq 2\%$ Monoacylglycerols (MAG): $\leq 10\%$ Diacylglycerols (DAG): $\leq 25\%$ Triacylglycerols (TAG): Making up the balance Phytosterol fraction: β -sitosterol: $\leq 80\%$ β -sitostanol: $\leq 15\%$ campestanol: $\leq 5\%$ stigmasterol: $\leq 30\%$ brassicasterol $\leq 30\%$ other sterols/stanols: $\leq 3\%$ Others: Moisture and volatile: $\leq 0.5\%$ Peroxide value: $< 5 \text{ meq/kg}$ Trans fatty acids: $\leq 1\%$

		9	stanols: I suitable for food have to be free of contaminants, best
Oil extracted from squid (Cephalopod sp.)	Acid value: ≤ 0.5 KOH/g oil Peroxide value: ≤ 5 meq O_2 /kg oil p-Aniside value: ≤ 20 Cold test at $0 \circ C$: ≤ 3 hours Moisture: $\leq 0.1\%$ (w/w) Unsaponifiable matter: $\leq 5\%$ Trans fatty acids: $\leq 1\%$ Docosahexaeonic acid: $\geq 20\%$ Eicosapentaenoic acid: $\geq 10\%$		
Pasteurised fruit-based preparations produced using	Parameter Fruit storage before high-pressure treatment	Target Minimum 15 days at – 20 °C	Comments Fruit harvested and stored in conjunction with good/hygienic agricultural and manufacturing practices
	Fruit added	40 % to 60 % of thawed fruit	Fruit homogenised and added to other ingredients
high-pressure pasteurisation	pН	3.2 to 4.2	
	° Brix	7 to 42	Assured by added sugars
	aw	< 0.95	Assured by added sugars
	Final storage	60 days maximum at + 5 °C maximum	Equivalent to storage regimen for conventionally processed product
	Description/Definition:		
Phosphated maize starch		ate phosphate cross-links between carbo	odified resistant starch derived from high amylose starch by ohydrate residues and esterified hydroxyl groups.

	Chemical formula: $(C_6H_{10}O_5)_n$ [$(C_6H_9O_5)_2PO_2H$]x [$(C_6H_9O_5)PO_3H_2$]y $n=$ number of glucose units; $x, y=$ degrees of substitution The chemical characteristics of phosphated distarch phosphate: Loss on drying: 10 - 14% pH: 4.5 - 7.5 Dietary fibre: $\geq 70\%$ Starch: 7 - 14% Protein: $\leq 0.8\%$ Lipids: $\leq 0.8\%$ Residual bound phosphorus: $\leq 0.4\%$ (as phosphorus) 'high amylose maize' as source
Phosphatidylserine from Fish Phospholipids	$\label{eq:Description/Definition:} \begin{tabular}{ll} \textbf{Description/Definition:} \\ \textbf{The novel food ingredient is yellow to brown powder. Phosphatidylserine is obtained from fish phospholipids by an enzymatic transphosphorylation with the amino acid L-serine. \\ \textbf{Moisture:} < 5\% \\ \textbf{Phospholipids:} \geq 75\% \\ \textbf{Phosphatidylserine:} \geq 35\% \\ \textbf{Glycerides:} < 4\% \\ \textbf{Free L-serine:} < 1\% \\ \textbf{Tocopherols:} < 0.5\% \\ \textbf{Peroxide value:} < 5 \text{ meq } O_2/kg \end{tabular}$
Phosphatidylserine from soya phospholipids	Description/Definition: The novel food ingredient is off-white to light yellow powder. It is also available in liquid form with a clear brown to orange colour. The liquid form contains medium chain triacylglycerides (MCT) as a carrier. It contains lower levels of Phosphatidylserine due to the fact that it includes significant amounts of oil (MCT). Phosphatidylserine from soya phospholipids is obtained through enzymatic transphosphatidylation of high-phosphatidylcholine soybean lecithin with the amino acid L-serine. Phosphatidylserine consists of a glycerophosphate skeleton conjugated with two fatty acids and L-serine via a phosphodiester linkage. Characteristics of Phosphatidylserine from soya phospholipids Powder form: Moisture: < 2%

	Phospholipids: ≥ 85% Phosphatidylserine: ≥ 61% Glycerides: < 2% free L-serine: < 1% Tocopherols: < 0.3% Phytosterols: < 0.2% Liquid form: Moisture: < 2% Phospholipids: ≥ 25% Phosphatidylserine: ≥ 20% Glycerides: not applicable	
	free L-serine: < 1% Tocopherols: < 0.3% Phytosterols: < 0.2%	
Phospoholipid product containing phosphatidylserine and phosphatidic acid	Description/Definition: The product is manufactured through enzymatic conversion of soy lecithin. The phospholipid product is a highly concentrated, yellow-brown powder form of phosphatidylserine and phosphatidic acid at an equal level. Moisture: ≤ 2% Total phospholipids: ≥ 70% Phosphatidylserine: ≥ 20% Phosphatidic acid: ≥ 20% Glycerines: ≤ 1% Free L-serine: ≤ 1% Tocopherols: ≤ 0.3% Phytosterols: ≤ 2% Silicon dioxide is used with a maximum content of 1%	
Phospholipides from egg yolk	85% and 100% pure Phospholipides from egg yolk	
Phytosterols/phytostanols	Description/Definition: Phytosterols and phytostanols are sterols and stanols that are extracted from plants and may be presented as free sterols and stanols or esterified with food grade fatty acids.	

	Composition (with GC-FID or equivalent method): β -sitosterol: $< 81\%$ β -sitostanol: $< 35\%$ ($< 35\%$ for Milk type products, such as semi-skimmed and skimmed milk type products, where the milk fat has been partly or fully replaced by vegetable fat) campesterol: $< 40\%$ campestanol: $< 15\%$ ($< 15\%$ for Milk type products, such as semi-skimmed and skimmed milk type products, where the milk fat has been partly or fully replaced by vegetable fat) stigmasterol: $< 30\%$ brassicasterol: $< 3\%$ other sterols/stanols: $< 3\%$ Contamination/Purity (GC-FID or equivalent method): Phytosterols and phytostanols extracted from sources other than vegetable oil suitable for food have to be free of contaminants, best ensured by a purity of more than 99% of the phytosterol/phytostanol ingredient.
Plum kernel oil	Description/Definition: Plum kernel oil is a vegetable oil obtained by cold pressing of plum (<i>Prunus domestica</i>) kernels. Composition: Oleic acid (C18:1): 68% Linoleic acid (C18:2): 23% γ-Tocopherol:80% of total tocopherols β-Sitosterol: 80-90% of total sterols Triolein: 40-55% of triglycerides Cyanhydric acid: maximum 5 mg/kg oil
Potato proteins (coagulated) and hydrolysates	Dry substance: $\geq 800 \text{ mg/g}$ Protein (N*6,25): $\geq 600 \text{ mg/g}$ (dry substance) Ash: $\leq 400 \text{ mg/g}$ (dry substance) Glycoalkaloid (total): $\leq 150 \text{ mg/kg}$ Lysinoalanine (total): $\leq 500 \text{ mg/kg}$ Lysinoalanine (free): $\leq 10 \text{ mg/kg}$
Prolyl oligopeptidase (enzyme preparation)	Specification of the enzyme: Systematic name: Prolyl oligopeptidase

Synonyms: Prolyl endopeptidase, proline-specific endopeptidase, endoprolylpeptidase

Molecular weight: 66 kDa

Enzyme Commission number: EC 3.4.21.26

CAS number: 72162-84-6

Source: A genetically modified strain of Aspergillus niger (GEP-44)

Description: Prolyl oligopeptidase is available as an enzyme preparation containing approximately 30% maltodextrin.

Specifications of the enzyme preparation of prolyl oligopeptidase:

Activity:> 580,000 PPI(1)/g (> 34.8 PPU(2)/g)

Appearance: Microgranulate

Colour: Off-white to orange yellowish. The colour may change from batch to batch

Dry Matter: > 94% Gluten: < 20 ppm Heavy metals:

Total heavy metals (as lead): ≤ 10 mg/kg

Lead: ≤ 1.0 mg/ kg Arsenic: ≤ 1.0 mg/kg Cadmium: ≤ 0.5 mg/kg Mercury: ≤ 0.1 mg/kg

Microbiological specifications:

Total aerobic plate count: $\leq 10^3$ CFU/g Total yeasts and moulds: $\leq 10^2$ CFU/g Sulphite reducing anaerobes: ≤ 30 CFU/g

Enterobacteriaceae: < 10 CFU/g

Salmonella: Absent in 25 g

Escherichia coli: Absent in 25 g

Staphylococcus aureus: Absent in 10 g

Pseudomonas aeruginosa: Absent in 10 g

	Listeria monocytogenes: Absent in 25 g Antimicrobial activity: Absent Mycotoxins: Below limits of detection: Aflatoxin B1, B2, G1, G2 (< 0.25 μg/kg), total Aflatoxins (< 2.0 μg/kg), Ochratoxin A (< 0.20 μg/kg), T-2 Toxin (< 5 μg/kg), Zearalenone (< 2.5 μg/kg), Fumonisin B1 and B2 (< 2.5 μg/kg) (1) PPU – Prolyl Peptidase Units or Proline Protease Units (2) PPI – Protease Picomole International
Protein extract from pig kidneys	Description/Definition: The protein extract is obtained from homogenised pig kidneys through a combination of salt precipitation and high speed centrifugation. The obtained precipitate contains essentially proteins with 7% of the enzyme diamine oxidase (enzyme nomenclature E.C. 1.4.3.22) and is resuspended in a physiologic buffer system. The obtained pig kidney extract is formulated as encapsulated enteric coated pellets to reach the active sites of digestion. Basic Product: Specification: pig kidney protein excerpt with natural content of DiAminOxidase (DAO): Physical condition: liquid Colour: brownish Appearance: slightly turbid solution pH value: 6.4-6.8 Enzymatic activity: > 2677 kHDU DAO/ml (DAO REA (DAO Radioextractionassay)) Brachyspira spp.: negative (Real Time PCR) Listeria monocytogenes: negative (Real Time PCR) Staphylococcus aureus: < 100 cfu/g Influenza A: negative (RevT. Real Time PCR) Escherichia coli: < 10 cfu/g Total aerobic microbiological count: < 10 ⁵ cfu/g Total combined yeasts / moulds count: < 10 ⁵ cfu/g Salmonella: absent/10g Bile salt resistant enterobacteriaceae: < 10 ⁴ cfu/g Final product:

	Specification pig kidney protein excerpt with natural content of DAO (E.C. 1.4.3.22) in an enteric coated formulation: Physical condition: solid
	Colour: yellow gray
	Appearance: micropellets
	Enzymatic activity: 110-220 kHDU DAO/g pellet (DAO REA (DAO Radioextractionassay))
	Acid stability 15 min 0.1M HCl followed by 60 min Borat pH=9.0: > 68 kHDU DAO/g pellet (DAO REA (DAO Radioextractionassay))
	Humidity: < 10%
	Staphylococcus aureus: < 100 cfu/g
	Escherichia coli: < 10 cfu/g
	Total aerobic microbiological count: < 10 ⁴ cfu/g
	Total combined yeasts / moulds count: $< 10^3$ cfu/g
	Salmonella: absent/10g
	Bile salt resistant enterobacteriaceae: $< 10^2$ cfu/g
Rapeseed oil high in unsaponifiable matter	Description/Definition: Rapeseed oil high in unsaponifiable matter' is produced by vacuum distillation and it is different from refined rapeseed oil in the concentration of the unsaponifiable fraction (1 g in refined rapeseed oil and 9 g in 'rapeseed oil high in unsaponifiable matter'). There is a minor reduction of triglycerides containing monounsaturated and polyunsaturated fatty acids. Unsaponifiable matter: > 7 g/100 g Tocopherols: > 0.8 g/100 g α-tocopherol (%): 30-50% γ-tocopherol (%): 50-70% δ-tocopherol (%): < 6% Sterols, triterpenic alcohols, methylsterols: > 5 g/100 g Fatty acids in triglycerides: palmitic acid: 3-8% stearic acid: 0.8-2.5% oleic acid: 50-70% linoleic acid: 15-28% linolenic acid: 6-14%

	erucic acid: < 2% Acid value: ≤ 6 mg KOH/g
	Peroxide value: $\leq 10 \text{ mEq } O_2/\text{kg}$
	Iron (Fe): < 1 000 µg/kg
	Copper (Cu): < 100 μg/kg
	Polycyclic aromatic hydrocarbons (PAH) Benzo(a)pyrene: < 2 μg/kg
	Treatment with active carbon is required to ensure that polycyclic aromatic hydrocarbons (PAH) are not enriched in the production of 'rapeseed oil high in unsaponifiable matter.
	Definition:
	Rapeseed protein is an aqueous protein-rich extract from rapeseed press cake originating from non-genetically modified <i>Brassica napus</i> L. and <i>Brassica rapa</i> L.
	Description:
	White to off-white, spray dried powder
	Total protein: $\geq 90\%$
	Soluble protein: ≥ 85%
	Moisture: ≤ 7%
	Carbohydrates: ≤ 7%
	Fat: ≤ 2%
Rapeseed Protein	Ash: $\leq 4\%$
•	Fibre: $\leq 0.5\%$ Total glucosinolates: $\leq 1 \text{ mmol/l}$
	Purity: Total phytate: ≤ 1.5%
	Lead: $\leq 0.5 \text{ mg/kg}$
	Microbiological criteria:
	Yeast and mould count: ≤ 100 cfu/g
	Aerobic bacteria count: ≤ 10 000 cfu/g
	Total coliform count: $\leq 10 \text{ cfu/g}$
	Escherichia coli: Absent in 10 g
	Salmonella spp.: Absent in 25 g

	Description/Definition:
	Trans-resveratrol is off-white to beige crystals.
	Chemical name: 5-[(E)-2-(4-hydroxyphenyl)ethenyl]benzene-1,3-diol
	Chemical formula: C ₁₄ H ₁₂ O ₃
	Molecular weight: 228.25 Da
	CAS No: 501-36-0
	Description: Trans-resveratrol is off-white to beige crystals.
	Purity:
Trans-resveratrol	Trans-resveratrol: ≥ 98%- 99% (Includes range for positive SEO)
	Total by-products (related substances): $\leq 0.5\%$
	Any single related substance: ≤ 0.1%
	Lead: ≤ 1ppm
	Mercury: ≤ 0.1 ppm
	Arsenic: \(\left\) 1 ppm
	Sulphated ash: $\leq 0.1\%$
	Diisopropylamine: ≤ 50 mg/kg
	Loss on drying: $\leq 0.5\%$
	Source: A genetically modified strain of Saccharomyces cerevisiae
	Appearance: Off-white to slight yellow powder
Trans-Resverastrol (microbial	Particle size: 100% less than 62.23 μm
source)	Trans-resveratrol content: Min. 98% w/w (dry weight basis)
	Ash: Max. 0.5% w/w
	Moisture: Max. 3% w/w
Rooster comb extract	Description/ Definition: Rooster comb extract is obtained from <i>Gallus gallus</i> by enzymatic hydrolysis of rooster comb and by
	subsequent filtration, concentration and precipitation steps. The principal constituents of rooster comb extract are the glycosaminoglycans
	hyaluronic acid, chondroitin sulphate A and dermatan sulphate (chondroitin sulphate B). White or almost white hygroscopic powder.
Koostei Como extract	Hyaluronic acid: 60-80%
	Chondroitin sulphate A: $\leq 5\%$
	Dermatan sulphate (chondroitin sulphate B): $\leq 25\%$

	pH: 5.0-8.5
	Purity:
	Chlorides: ≤ 1%
	Nitrogen: $\leq 8\%$
	Loss on drying: (105 °C for 6 hours): $\leq 10\%$
	Mercury: $\leq 0.1 \text{ mg/kg}$
	Arsenic: ≤ 1 mg/kg
	Cadmium: ≤ 1 mg/kg
	Chromium: ≤ 10 mg/kg
	Lead: $\leq 0.5 \text{ mg/kg}$
	Microbiological criteria:
	Total viable aerobic count: $\leq 10^2$ cfu/g
	Escherichia coli: Absent in 1 g
	Salmonella spp.: Absent in 1 g
	Staphylococcus aureus: Absent in 1 g
	Pseudomonas aeruginosa: Absent in 1g
	Description/Definition:
	Sacha inchi oil is a 100% cold pressed vegetable oil obtained from the seeds of <i>Plukenetia volubiis</i> L. It is a transparent, fluid (liquid) and shiny oil at room temperature. It has a fruity, light green vegetable taste, without undesirable flavours.
	Aspect limpidity, shine colour: Fluid at room temperature clean, shiny yellow gold
	Odour and taste: Fruity, vegetable without non acceptable taste or odour
Sacha Inchi oil from <i>Plukenetia</i>	Water and Volatiles: < 0.2 g/100 g
volubilis	Impurities insoluble in hexane: < 0.05 g/100 g
votubuis	Oleic acidity: < 2 g/100 g
	Peroxide value: < 15 meq O ₂ /kg
	Trans fatty acids: < 1 g/100 g
	Total unsaturated fatty acids: > 90%
	Omega 3 alpha linolenic acid (ALA): > 45%
	Saturated fatty acids: < 10%
	No trans fatty acids (< 0.5%)

	No erucic acid (< 0.2%) More than 50 % of tri-linolenin and di-linolenin-triglycerides Phytosterols composition and level No cholesterol (< 5 mg/100 g)
Salatrims	Description/Definition: Salatrim is the internationally recognised acronym for (short and long chain acyl triglyceride molecules). Salatrim is prepared by non-enzymatic inter-esterification of triacetin, tripropionin, tributyrin, or their mixtures with hydrogenated canola, soybean, cottonseed, or sunflower oil. Description: Clear, slightly amber liquid to a light coloured waxy solid at room temperature. Free of particulate matter and of foreign or rancid odour. Glycerol ester disribution: Triacylglycerols: > 87% Diacylglycerols: ≤ 10% Monoacylglycerols: ≤ 2% Fatty acid composition: MOLE % LCFA (long chain fatty acids): 33-70% MOLE % SCFA (short chain fatty acids): 30-67% Saturated long chain fatty acids: < 70% by weight Trans fatty acids as oleic acid: ≤ 0.5% Triacylglycerol profile: Triesters (short/long of 0.5 to 2.0): ≥ 90% Triesters (short/long = 0): ≤ 10% Unsaponifiable material: ≤ 1% Moisture: ≤ 0.3% Ash: ≤ 0.1% Colour: ≤ 3.5 Red (Lovibond)
Schizochytrium sp. oil rich in DHA and EPA	Peroxide value: ≤ 2.0 Meq/Kg Description/Definition: DHA/EPA rich <i>Schizochytrium</i> algal oil' is the winterized, deodorized oil derived from cultivated microalgae Schizochytrium sp. Docosahexaenoic acid (DHA) ≥ 24% w/w

	Eicosapentaenoic acid (EPA) $\geq 12\%$ w/w ratio of DHA to EPA is 2:1 Acid value: ≤ 0.5 mg KOH/g Peroxide value: ≤ 5.0 meq/kg oil Moisture and volatiles: $\leq 0.05\%$ Unsaponifiables: $\leq 4.5\%$ Trans-fatty acids: $\leq 1\%$ DHA content: $\geq 22.5\%$ EPA content: $\geq 10\%$
Schizochytrium sp. (ATCC PTA-9695) oil	Free fatty acids: $\le 0.4\%$ Peroxide value: ≤ 5.0 meq/kg oil Unsaponifiables: $\le 3.5\%$ DHA content: $\ge 35\%$ Docosapentaenoic acid (DPA) n-6: $\le 6\%$ Trans-fatty acids: $\le 2.0\%$
Schizochytrium sp. oil	Acid value: ≤ 0.5 mg KOH/g Peroxide value (PV): ≤ 5.0 meq/kg oil Moisture and volatiles: $\leq 0.05\%$ Unsaponifiables: $\leq 4.5\%$ Trans-fatty acids: $\leq 1\%$ DHA content: $\geq 32.0\%$
Fermented soybean extract	Description/Definition: Fermented soybean extract is an odourless milk-white coloured powder. It is comprised of 30 % fermented soybean extract powder and 70 % resistant dextrin (as carrier) from corn-starch, which is added during the processing. Vitamin K2 is removed during the manufacturing process. Fermented soybean extract contains nattokinase isolated from natto, a foodstuff produced by the fermentation of non-genetically modified soybeans (Glycine max (L.)) with a selected strain of Bacillus subtilis var. natto. Nattokinase activity: 20 000 -28 000 FU(1)/g (2) Identity: Confirmable Condition: No offensive taste or smell

	Loss on drying: $\leq 10\%$ Vitamin K2: ≤ 0.1 mg/kg Heavy metals: ≤ 20 mg/kg Lead: ≤ 5 mg/kg Arsenic: ≤ 3 mg/kg Total viable aerobic count: ≤ 1 000 CFU (3)/g Yeast and mould: ≤ 100 CFU/g Coliforms: ≤ 30 CFU/g Spore-forming bacteria: ≤ 10 CFU/g Escherichia coli: Absence/25 g Salmonella sp.: Absence/25 g Listeria: Absence/25 g (1) FU: Fibrin degradation unit (2) Assay method as described by Takaoka et al. (2010). (3) CFU: Colony forming unit
Sucromalt	Description/Definition: Sucromalt is a complex mixture of saccharides which is produced from sucrose and a starch hydrolysate by means of an enzymatic reaction. In this process, glucose units are attached to saccharides from the starch hydrolysate by means of an enzyme produced by the bacterium $Leuconostoc\ citreum$ or by means of a recombinant strain of the production organism $Bacillus\ licheniformis$. The resulting oligosaccharides are characterised by the presence of α -(1 \rightarrow 6) and α -(1 \rightarrow 3) glycosidic compounds. The overall product is syrup, in addition to these oligosaccharides, contains mainly fructose but also the disaccharide leucrose and other disaccharides. Total solids: 75-80% Moisture: 20-25% Sulphatase: Max 0.05% pH: 3.5-6.0 Conductivity < 200 (30%) Nitrogen < 10 ppm Fructose: 35-45% d.w. Leucrose: 7-15% d.w. Other disaccharides: Max 3%

	Higher saccharides: 40-60% d.w
	Description/Definition:
	Sugar Cane Fibre is derived from the dry cell wall or fibrous residue remaining after expression or extraction of sugar juice from sugar cane, of the Saccharum genotype. It consists primarily of cellulose and hemicellulose.
	The production process consists of several steps, including: chipping, alkaline digestion, removal of lignins and other non-cellulosic components, bleaching of purified fibres, acid washing and neutralization.
	Moisture : $\leq 7.0\%$
	$Ash: \leq 0.3\%$
	Total Dietary Fibre (AOAC) dry basis (all insoluble): ≥ 95%
	of which: Hemicellulose (20-25%) and cellulose (70-75%)
a a ====	Silica (ppm): ≤200
Sugar Cane Fibre	Protein: 0%
	Fat: Trace
	pH: 4-7
	Mercury (ppm): ≤0.1
	Lead (ppm): ≤1
	Arsenic (ppm): ≤1
	Cadmium (ppm): ≤0.1
	Yeast and moulds (cfu/g): ≤1000
	Salmonella: absence
	Listeria monocytogenes: absence
	Description/Definition:
Sunflower oil extract	The sunflower extract is obtained by a concentration factor of 10 of the unsaponifiable fraction of refined sunflower oil extracted from
	the seeds of the sunflower, <i>Helianthus Annuus</i> L).
	Composition:
	Oleic acid (C18:1): 20% Linoleic acid (C18:2): 70%
	Unsaponifiable matter: 8%

	Phytosterols: 5.5%
	Tocopherols: 1.1%
Dried Tetraselmis chuii microalgae	Description/Definition: The dried product is obtained from the marine microalgae <i>Tetraselmis chuii</i> , belonging to the <i>Chlorodendraceae</i> family, cultivated in sterile sea water in closed photobioreactors insulated from the outside air. Identified by means of nuclear marker rDNA 18 S (sequence analysed no less than 1,600 base pairs) in the National Centre for Biotechnology information (NCBI) database: Not less than 99.9% Humidity: ≤ 7% Proteins: 35-40%
	Ashes: 14-16% Carbohydrates: 30-32% Fibre: 2-3% Fat: 5-8% Saturated fatty acids: 29-31% of total fatty acids Monounsaturated fatty acids: 21-24% of total fatty acids Polyunsaturated fatty acids: 44-49% of total fatty acids Iodine: ≤ 15 mg/kg
Therapon barcoo/Scortum	Description/Definition: Scortum/Therapon barcoo is a species of fish in the family Terapontidae. It is an endemic fresh water species from Australia. It is now reared in fish farms. Taxonomic Identification: Class: Actinopterygii > order: Perciformes > family: Terapontidae > genus: Therapon or Scortum Barcoo Composition of fish flesh: Protein (%): 18-25 Moisture (%): 65-75 Ash (%): 0,5-2 Energy (KJ/Kg): 6000-11500 Carbohydrates: 0 Fat (%): 5-15 Fatty acids (mg FA/g fillet):

D Tugutose	CAS number: $87-81-0$ Chemical formula: $C_6H_{12}O_6$ Formula weight: 180.16
D-Tagatose	Appearance: White or almost white crystals Chemical name: D-tagatose Synonym: D- <i>lyxo</i> -Hexulose
	Total omega 6 acids: 2.6-10.0
	Total omega 3 acids: 1.6-40.0
	HUFA n-3/n-6: 1.5-15.0
	Σ HUFA n-6: 0.3-2.0
	Σ HUFA n-3: 1.2-20.0
	22:6(n-3): 0.6-11.3
	22:5(n-3): 0.0-2.4
	20:5(n-3): 0.1-5.2
	20:4(n-6): 0.0-0.3
	20:2(n-6): 0.2-0.5
	20:00: 0.1-0.8
	18:4(n-3): 0.0-3.0
	18:3(n-3): 0.0-27.3
	18:3(n-6): 0.0-2.3
	18:2(n-6): 2.1-42.1
	18:1(n-7): 0.4-2.7
	18:1(n-9): 10.6-65.3
	18:00: 2.2-7.8
	16:1(n-7): 0.8-13.1
	16:00: 8.8-36.4
	14:00: 0.5-6.1 15:00: 0.0-0.4

	Assay: $\geq 98\%$ on a dry weight basis Loss on drying: $\leq 0.5\%$ (102°C, 2 hours) Lead: ≤ 1 mg/kg* Specific Rotation: $[\alpha]20_D$: -4 to -5.6° (1% aqueous solution) ¹ Melting range: 133-137 C1 * Determine using an atomic absorption technique appropriate to the specified level. The selection of sample size and method of sample preparation may be based on the principles of the method described in FNP 5. Instrumental methods' ¹ . ¹ Food and nutrition paper 5 Rev 2 – Guide to specifications for general notices, general analytical techniques, identification tests, test solutions and other reference materials (JECFA) 1991, 307 p.; English – ISBN 92-5-102991-1
Taxifolin-rich extract	Description: Taxifolin-rich extract from the wood of Dahurian Larch (Larix gmelinii (Rupr.) Rupr) is a white to pale-yellow powder that crystallizes from hot aqueous solutions. Definition: Chemical name: [(2R,3R)-2-(3,4 dihydroxyphenyl)-3,5,7-trihydroxy-2,3-dihydrochromen-4-one, also called (+) trans (2R,3R)-dihydroquercetin] Chemical formula: C15H12O7 Molecular mass: 304.25 Da CAS No: 480-18-2 Specifications: Physical parameter Moisture: ≤ 10% Compound analysis Taxifolin (m/m): ≥ 90.0% of the dry weight Heavy Metals, Pesticide Lead: ≤ 0.5 mg/kg Arsenic: ≤ 0.02 mg/kg Cadmium: ≤ 0.5 mg/kg Mercury: ≤ 0.1 mg/kg Dichlorodiphenyldichloroethane (DDT): ≤ 0.05 mg/kg

	Residual solvents	
	Ethanol: < 5,000 mg/kg	
	Microbial Parameters	
	Total Plate Count (TPC):	$\leq 10^4 \text{CFU/g}$
	Enterobacteria: ≤ 100/g	
	Yeast and Mould : ≤ 100	CFU/g
	Escherichia coli: Negative/1 g Salmonella spp.: Negative/10 g	
	Staphylococcus aureus: N	Negative/1 g
	Pseudomonas spp.: Negar	tive/1 g
	Usual range of components of the Taxifolin-rich extract (as per dry substance)	
	Extract component	Content, usual observed range (%)
	Taxifolin	90 – 93
	Aromadendrin	2.5 - 3.5
	Eriodictyol	0.1 - 0.3
	Quercetin	0.3 - 0.5
	Naringenin	0.2 - 0.3
	Kaempferol	0.01 - 0.1
	Pinocembrin	0.05 - 0.12
	Unidentified flavonoids	1 - 3
	Water*	1.5
	*Taxifolin in its hydrated quantity of 1.5 %.	d form and during the drying process is a crystal. This results on the inclusion of water of crystallisation in a
	Description/Definition:	
Trehalose	_	ride that consists of two glucose moieties linkes by an α -1,1-glucosidic bond. It is obtained from liquefied starch process. The commercial product is the dihydrate. Virutally odourless, white or almost white crystals with a

Synonyms: α,α -trehalose

Chemical name: α-D-glucopyranosyl-α-D-glucopyranoside, dihydrate

CAS No.: 6138-23-4 (dihydrate)

Chemical formula: C₁₂H₂₂O₁₁ • 2H₂O (dihydrate)

Formula weight: 378.33 (dihydrate) Assay: \geq 98% on the dry basis

Characteristics:

Identification:

Solubility: Freely soluble in water, very slightly soluble in ethanol

Specific rotation: $[\alpha]D20 + 199^{\circ}$ (5 % aqueous solution)

Melting point: 97 °C (dihydrate)

Purity:

Loss on drying: $\leq 1.5\%$ (60°C, 5h)

Total ash: $\leq 0.05\%$ Lead: $\leq 1 \text{ mg/kg}$

Determine using an atomic absorption technique appropriate to the specified level. The selection of sample size and method of sample preparation may be based on the principles of the method described in FNP 5 (1), 'Instrumental methods'

Method of assay:

Principle: trehalose is identified by liquid chromatography and quantified by comparison to a reference standard containing standard trehalose

Preparation of sample solution: weigh accurately about 3 g of dry sample into a 100-ml volumetric flask and add about 80 ml of purified, deionised water. Bring sample to complete dissolution and dilute to mark with purified deionised water. Filter through a 0,45 micron filter

Preparation of standard solution: dissolve accurately weighed quantities of dry standard reference trehalose in water to obtain a solution having known concentration of about 30 mg of trehalose per ml

Apparatus: liquid chromatography equipped with a refractive index detector and integrating recorder

Conditions:

Column: Shodex Ionpack KS-801 (Showa Denko Co.) or equivalent

length: 300 mmdiameter: 10 mmtemperature: 50 °C

	Mobile phase: water flow rate: 0.4 ml/min Injection volume: $8 \mu l$ Procedure: inject separately equal volumes of the sample solution and the standard solution into the chromatograph. Record the chromatograms and measure the size of response of the trehalose peak Calculate the quantity, in mg, of trehalose in 1 ml of the sample solution by the following formula: % trehalose = $100 \times (R_U/R_S) (W_S/W_U)$ where $R_S = \text{peak}$ area of trehalose in the standard preparation $R_U = \text{peak}$ area of trehalose in the sample preparation $W_S = \text{weight in mg}$ of trehalose in the standard preparation $W_U = \text{weight of dry sample in mg}$	
UV treated mushrooms with increased levels of Vitamin \mathbf{D}_2	Description/Definition: Commercially grown <i>Agaricus bisporus</i> to which UV light treatment is applied to harvested mushrooms yielding a Vitamin D content of ≤10 μg/100g fresh weight Vitamin D₂: Chemical name: (3β,5Z,7E,22E)-9,10-secoergosta-5,7,10(19),22-tetraen-3-ol Synonym: Ergocalciferol CAS No: 50-14-6 Molecular weight: 396.65 g/mol Contents: Vitamin D in the final product: 5-10 μg/100g fresh weight at the expiration of shelf life	
UV-treated baker's yeast (Saccharomyces cerevisiae)	Description/Definition: Baker's yeast (<i>Saccharomyces cerevisiae</i>) is treated with ultraviolet light to induce the conversion of ergosterol to vitamin D ₂ (ergocalciferol). Vitamin D ₂ content in the yeast concentrate varies between 1 800 000-3 500 000 IU vitamin D/100 g (450-875 μg/g). Tan-coloured, free-flowing granules Vitamin D ₂ : Chemical name: (5Z,7E,22E)-3S-9,10-secoergosta-5,7,10(19),22-tetraen-3-ol Synonym: Ergocalciferol CAS No.: 50-14-6	

	Molecular weight: 396.65 g/mol Microbiological criteria for the yeast concentrate: Coliforms: ≤ 1000/g Escherichia coli: ≤ 10/g Salmonella spp.: Absent in 25g
UV-treated bread	Description/Definition: UV-treated bread is yeast leavened bread and rolls (without toppings) to which a treatment with ultraviolet radiation is applied after baking in order to convert ergosterol to vitamin D₂ (ergocalciferol). UV radiation: A process of radiation in ultraviolet light within the wavelength of 240-315 nm for maximum of 5 seconds with energy input of 10-50 mJ/cm². Vitamin D₂: Chemical name: (5Z,7E,22E)-3S-9,10-secoergosta-5,7,10(19),22-tetraen-3-ol Synonym:Ergocalciferol CAS No: 50-14-6 Molecular weight: 396.65 g/mol Contents: Vitamin D₂ (ergocalciferol) in the final product: 0.75-3 μg/100 g (1) Yeast in dough: 1-5 g/100 g (2) (1) EN 12821, 2009, European Standard. (2) Recipe calculation.
UV-treated milk	Description/Definition: UV-treated milk is cow's milk (whole and semi-skimmed) to which a treatment with ultraviolet (UV) radiation via turbulent flow is applied after pasteurisation. The treatment of the pasteurised milk with UV radiation results in an increase in the vitamin D ₃ (cholecalciferol) concentrations by conversion of 7-dehydrocholesterol to vitamin D ₃ . UV radiation: A process of radiation in ultraviolet light within the wavelength of 200-310 nm with energy input of 1 045 J/l Vitamin D ₃ : Chemical name: (1S,3Z)-3-[(2E)-2-[(1R,3aS,7aR)-7a-methyl-1-[(2R)-6-methylheptan-2-yl]-2,3,3a,5,6,7-hexahydro-1H-inden-4-ylidene]-4-methylidenecyclohexan-1-ol Synonym: Cholecalciferol CAS No: 67-97-0

	Molecular weight: 384.6377 g/mol Contents: Vitamin D_3 in the final product: Whole milk $^{(1)}$: 0.5 - 3.2 µg/ 100 g $^{(2)}$ Semi-skimmed milk(1): 0.1 - 1.5 µg/ 100 g $^{(2)}$ Semi-skimmed milk(1): 0.1 - 1.5 µg/ 100 g $^{(2)}$ ($^{(1)}$ As defined by Regulation (EU) No $1308/2013$ of the European Parliament and of the Council of 17 December 2013 establishing a common organisation of the markets in agricultural products and repealing Council Regulations (EEC) No $922/72$, (EEC) No $234/79$, (EC) No $1037/2001$ and (EC) No $1234/2007$ (OJ L 347 , $20.12.2013$, p. 671).
Vitamin K_2 (menaquinone)	This novel food is produced by a specific authorised synthetic or microbiological process Specification of the synthetic source Chemical Name: (all-E)-2-(3,7,11,15,19,23,27-Heptamethyl-2,6,10,14,18,22,26-octacosaheptaenyl)-3-methyl-1,4-naphtalenedione CAS Number: 2124-57-4 Molecular formula: C4 ₆ H ₆₄ O ₂ Molecular weight: 649 g/mol Appearance: Yellow powder Purity: Max 6% cis-isomer, max 2% other impurities Content: 98-102% Menaquinone-7 (including at least 92% all-trans Menaquinone-7) Specifications of the microbial process Source: Bacillus subtilis spp. natto Vitamin K ₂ (2-methyl-3-all-trans-polyprenyl-1,4-naphthoquinones), or the menaquinone series, is a group of prenylated naphthoquinone derivatives. The number of isoprene residues, where 1 isoprene unit consists of 5 carbons comprising the side chain, is used to characterise the menaquinone homologues. It is presented in an oil suspension that primarily contains MK-7, and MK-6 to a smaller extent

	Description/Definition:
	White crystalline powder obtained by enzymatic extraction from <i>Triticum aestivum</i> L. bran, rich in arabinoxylan oligosaccharides
	Dry matter: Min. 94%
	Arabinoxylan oligosaccharides: Min 70% of dry matter Average degree of polymerisation of arabinoxylan oligosaccharides: 3-8
	Ferulic acid (bound to arabinoxylan oligosaccharides): 1-3% of dry matter
	Total poly/oligosaccharides: Min 90%
	Protein: Max % of dry matter
Wheat bran extract	Ash: Max 2% of dry matter
	·
	Microbiological parameters: Macophilia heateria total count: May 10 000/g
	Mesophilic bacteria – total count: Max 10 000/g Yeasts: Max 100/g
	Fungi: Max 100/g Fungi: Max 100/g
	Salmonella: Absent in 25g
	Bacillus cereus: Max 1000/g
	Clostridium perfringens: Max 1000/g
	Description/Definition:
	Beta-glucans are complex, high molecular mass (100–200 kDa) polysaccharides, found in the cell wall of many yeasts and cereals.
	The chemical name for 'yeast beta-glucans' is (1-3),(1-6)-\(\beta\)-D-glucans.
	Beta-glucans consist of a backbone of β -1-3-linked glucose residues that are branched by β -1-6-linkages, to which chitin and mannoproteins are linked by β -1-4-bonds.
	Beta-glucans are isolated from yeast Saccharomyces cerevisiae.
Yeast beta-glucans	The tertiary structure of the glucan cell wall of <i>Saccharomyces cerevisiae</i> consists of chains of β-1,3-linked glucose residues, branched by β-1,6-linkages, forming a backbone to which are linked chitin via β-1,4- bonds, β-1,6-glucans and some mannoproteins.
	This novel food is available in a soluble and insoluble form and insoluble in water, but dispersible in many liquid matrices.
	Chemical characteristics yeast (Saccharomyces cerevisiae) beta-glucans:
	Soluble form:
	Total carbohydrates: > 75%

Ash: < 4% Moisture: < 8%

Protein: < 3.5%

Fat: < 10%

Insoluble form:

Total carbohydrates: > 70% Beta-glucans (1.3/1.6): > 70%

Ash: $\leq 12\%$ Moisture: < 8%Protein: < 10%Fat: < 20%

Insoluble in water, but dispersible in many liquid matrices:

(1,3)-(1,6)- β -D-Glucans: > 80%

Ash: < 2%

Moisture: < 6%
Protein: < 4%
Total fat: < 3%

Microbiological data:

 $Total \ plate \ count: < 1000 \ CFU/g$ $Enterobacteriaceae: < 100 \ CFU/g$

 $Total\ coliforms: < 10\ CFU/g$

Yeast: < 25 CFU/g Mould: < 25 CFU/g

Salmonella ssp.: Absent in 25 g Escherichia coli: Absent in 1 g Bacillus cereus: < 100 CFU/g

Staphylococcus aureus: Absent in 1 g

Heavy metals: Lead: < 0.2 mg/g

	Arsenic: < 0.2 mg/g	
	Mercury: < 0.1 mg/g	
	Cadmium: < 0.1 mg/g	
	Description/Definition:	
Zeaxanthin (synthetic)	Zeaxanthin is a naturally occurring xanthophyll pigment, it is an oxygenated carotenoid. Synthetic zeaxanthin is presented either as a spray-dried powder of gelatin or starch base ('beadlets') with added α -tocopherol and ascorbyl palmitate or as a corn oil suspension with added α -tocopherol.	
	Production process: Synthetic zeaxanthin is produced by a multi-step chemical synthesis from smaller molecules. Orange-red crystalline powder with little or no odour Chemical formula: $C_{40}H_{56}O_2$	
	CAS No: 144-68-3	
	Molecular weight: 568.9 daltons	
	Physical-chemical properties:	
	Loss on drying: < 0.2%	
	All-trans zeaxanthin: > 96%	
	Cis-zeaxanthin: < 2%	
	Other carotenoids: < 1.5%	
	Triphenylphosphine oxid (CAS No 791-28-6): < 50 mg/kg	
	Description/Definition:	
	Zinc L-pidolate is a white to creamy white powder, with characteristic odor.	
	International non-proprietary name (INN): L-pyroglutamic acid, Zinc salt	
	Synonyms: Zinc 5-oxoproline, Zinc pyroglutamate, Zinc pyrrolidone carboxylate, Zinc PCA, L-Zinc pidolate	
	CAS No.: 15454-75-8	
Zinc L-pidolate	Molecular formula: $(C_5 H_6 NO_3)_2 Zn$	
F	Relative anhydrous molecular mass: 321.4	
	Appearance: White to slightly white powder	
	pH (10% aqueous sol.): 5.0 - 6.0	
	Specific rotation: - 22.8° to - 19.6°	
	Water: \(\le 10.0\% \)	
	Glutamic acid: <2.0%	

Lead: ≤ 3 ppm

Arsenic: ≤ 2 ppm

Cadmium: ≤ 1 ppm

Mercury: ≤ 0.1 ppm

Zinc L-pidolate (purity): ≥ 98.0%

Total viable mesophilic count: ≤ 10 E3 U.F.C/g

Yeasts and moulds: ≤ 10 E2 U.F.C/g

Pathogen: Absence