Commission Implementing Regulation (EU) 2018/1023 of 23 July 2018 correcting Implementing Regulation (EU) 2017/2470 establishing the Union list of novel foods (Text with EEA relevance)

COMMISSION IMPLEMENTING REGULATION (EU) 2018/1023

of 23 July 2018

correcting Implementing Regulation (EU) 2017/2470 establishing the Union list of novel foods

(Text with EEA relevance)

THE EUROPEAN COMMISSION,

Having regard to the Treaty on the Functioning of the European Union,

Having regard to Regulation (EU) 2015/2283 of the European Parliament and of the Council on novel foods, amending Regulation (EU) No 1169/2011 of the European Parliament and of the Council and repealing Regulation (EC) No 258/97 of the European Parliament and of the Council and Commission Regulation (EC) No 1852/2001⁽¹⁾, and in particular Article 8 thereof,

Whereas:

- Pursuant to Article 8 of Regulation (EU) 2015/2283, the Commission is to establish, by 1 January 2018, the Union list of novel foods authorised or notified under Regulation (EC) No 258/97 of the European Parliament and of the Council⁽²⁾.
- (2) The Union list of novel foods authorised or notified under Regulation (EC) No 258/97 was established by Commission Implementing Regulation (EU) 2017/2470⁽³⁾.
- (3) Pursuant to Article 36 of Regulation (EU) 2015/2283, the new novel food Regulation applies from 1 January 2018. A number of products were authorised or notified under Regulation (EC) No 258/97 during the period between the Standing Committee vote on the Union list on 6 December 2017 and the date of application of Regulation (EU) 2015/2283 on 1 January 2018. These products should therefore be included in the Union list established through Implementing Regulation (EU) 2017/2470.
- (4) On 19 December 2017, the company Demethra Biotech S.r.l. notified the Commission that it placed the novel food '*Echinacea purpurea* extract from cell cultures' on the Union market pursuant to Article 5 of Regulation (EC) No 258/97. This novel food was not included in the Union list. Therefore, a new entry should be added to Tables 1 and 2 of the Annex to Implementing Regulation (EU) 2017/2470.
- (5) On 21 and 22 December 2017, two companies, DuPont Nutrition & Biosciences ApS and FrieslandCampina Nederland BV, notified the Commission that they placed the novel food '2'-Fucosyllactose (microbial source)' on the Union market pursuant to Article 5 of Regulation (EC) No 258/97. '2'-Fucosyllactose (microbial source)' was already included in the Annex to Implementing Regulation (EU) 2017/2470. Those new notifications modify the numerical values of several parameters listed in the

specifications of this novel food and therefore, the entry '2'-Fucosyllactose (microbial source)' in Table 2 of the Annex to Implementing Regulation (EU) 2017/2470 should be corrected accordingly.

- (6) On 20 December 2017, the company c-LEcta GmbH notified the Commission that it placed the novel food 'Trehalose' on the Union market pursuant to Article 5 of Regulation (EC) No 258/97. 'Trehalose' was included in the Annex to Implementing Regulation (EU) 2017/2470. That new notification concerns a new source of trehalose, sucrose. Therefore, the specifications of the entry 'Trehalose' in Table 2 of the Annex to Implementing Regulation (EU) 2017/2470 should be corrected accordingly.
- (7) After the publication of Implementing Regulation (EU) 2017/2470, a number of errors or omissions were noted concerning the specifications or the conditions of use of a number of authorised novel foods. Therefore, the Union list established in the Annex to Implementing Regulation (EU) 2017/2470 should be corrected.
- (8) The novel food 'L-Alanyl-L-Glutamine' was authorised under certain conditions of use pursuant to Article 5 of Regulation (EC) No 258/97. The category 'Drinks intended to meet the expenditure of intense muscular effort especially for sportsmen' was erroneously omitted. Therefore, a correction adding 'Drinks intended to meet the expenditure of intense muscular effort especially for sportsmen' as allowed food category in the entry 'L-Alanyl-L-Glutamine' in Table 1 of the Annex to Implementing Regulation (EU) 2017/2470 is necessary.
- (9) The novel food 'Glucosamine HCl' was authorised under certain conditions of use pursuant to Article 5 of Regulation (EC) No 258/97. The food category 'Milk-based drinks and similar products intended for young children' was added erroneously and should be deleted from this entry. A correction in the entry 'Glucosamine HCl' in Table 1 of the Annex to Implementing Regulation (EU) 2017/2470 is therefore necessary.
- (10) The novel food 'Lacto-*N*-neotetraose' was authorised under certain conditions of use and maximum levels by Commission Implementing Decision (EU) 2016/375⁽⁴⁾. The wording 'at concentrations up to 1,2 g/l' was added erroneously and should be removed from the food category 'Milk-based drinks and similar products intended for young children' for this novel food. Therefore, a correction of the entry 'Lacto-*N*-neotetraose' in Table 1 of the Annex to Implementing Regulation (EU) 2017/2470 is necessary.
- (11) The novel food 'Spermidine-rich wheat germ extract (*Triticum aestivum*)' was authorised under certain conditions of use for 'adult population excluding pregnant and lactating women' pursuant to Article 5 of Regulation (EC) No 258/97. However, the exclusion of pregnant and lactating women erroneously did not feature in the Union list. In consequence, the correction of the entry 'Spermidine-rich wheat germ extract (*Triticum aestivum*)' in Table 1 of the Annex to Implementing Regulation (EU) 2017/2470 is necessary.
- (12) The novel food 'Antarctic Krill oil from *Euphausia superba*' in Table 2 of the Annex to Implementing Regulation (EU) 2017/2470 erroneously omitted the following requirement, which should be added: 'Oxidative stability: all food products containing Antarctic Krill oil from *Euphausia superba* should demonstrate oxidative stability

by appropriate and recognised national/international test methodology (e.g. AOAC)'. Therefore, a correction of this entry in Table 2 of the Annex to Implementing Regulation (EU) 2017/2470 is necessary.

- (13) The novel food 'Antarctic Krill oil rich in phospholipids from *Euphausia superba*' was authorised under certain conditions of use by the Finnish competent authorities⁽⁵⁾. The specifications erroneously added the following requirement: 'Oxidative stability: all food products containing Antarctic Krill oil rich in phospholipids from *Euphausia superba* should demonstrate oxidative stability by appropriate and recognised national/ international test methodology (e.g. AOAC)'. This requirement should be removed. Therefore, a correction of the entry 'Antarctic Krill oil rich in phospholipids from *Euphausia superba*' in Table 2 of the Annex to Implementing Regulation (EU) 2017/2470 is necessary.
- (14) The novel food 'Chia seeds (*Salvia hispanica*)' was initially authorised under certain conditions of use by Commission Decision 2009/827/EC⁽⁶⁾. The specifications erroneously added the following requirement: '(EU: carbohydrates are available = sugar + starch)'. This requirement should be removed. Therefore, a correction of the entry 'Chia seeds (*Salvia hispanica*)' in Table 2 of the Annex to Implementing Regulation (EU) 2017/2470 is necessary.
- (15) The novel food 'Chitosan extract from fungi (*Agaricus bisporus*; *Aspergillus niger*)' was initially authorised under certain conditions of use pursuant to Article 5 of Regulation (EC) No 258/97. The specifications erroneously added the following requirement: 'Fat binding capacity 800 x 9 w/wet weight): pass'. This requirement should be replaced by 'Fat binding capacity 800 x (w/w wet weight): pass'. Therefore, a correction of the entry 'Chitosan extract from fungi (*Agaricus bisporus*; *Aspergillus niger*)' in Table 2 of the Annex to Implementing Regulation (EU) 2017/2470 is necessary.
- (16) The novel food 'Citicoline' was authorised under certain conditions of use by Commission Implementing Decision 2014/423/EU⁽⁷⁾. In Table 2 of the Annex to Implementing Regulation (EU) 2017/2470, the specifications of the novel food 'Citicoline' refer to citicoline produced via either a synthetic or a microbial process. After the publication of that Regulation, it became clear that microbial process for the production of citicoline, also involved synthetic process. Thus, the specifications concerning 'Citicoline' in Table 2 of the Annex to Implementing Regulation (EU) 2017/2470 should be corrected to include only the microbial production process.
- (17) The novel food 'Echinacea angustifolia extract from cell cultures' was initially authorised under certain conditions of use pursuant to Article 5 of Regulation (EC) No 258/97. The specifications erroneously omitted the wording 'description/definition'. Therefore, a correction of the entry 'Echinacea angustifolia extract from cell cultures' in Table 2 of the Annex to Implementing Regulation (EU) 2017/2470 is necessary.
- (18) The novel food 'Galacto-oligosaccharide' is included in the Union list established by Implementing Regulation (EU) 2017/2470. The following microbial sources *Pichia pastoris*, *Kluyveromyces lactis*, *Sporobolomyces singularis* and *Papiliotrema terrestris* of the enzyme 'β-galactosidase' were erroneously omitted in the specifications.

Therefore, these sources of β -galactosidase should be added to the entry 'Galactooligosaccharide' in Table 2 of the Annex to Implementing Regulation (EU) 2017/2470.

- (19) The novel food 'Vitamin K₂ (menaquinone)' was initially authorised under certain conditions of use by Commission Decision 2009/345/EC⁽⁸⁾. The chemical definition of Vitamin K₂ was added to 'specifications of microbiologically produced vitamin K₂ (menaquinone-7)' but erroneously not added to 'specifications of synthetic vitamin K₂ (menaquinone-7)'. Therefore, a correction of the entry 'Vitamin K₂ (menaquinone)' in Table 2 of the Annex to Implementing Regulation (EU) 2017/2470 is necessary.
- (20) The novel food 'Yeast beta-glucans' was authorised under certain conditions of use by Commission Implementing Decision 2011/762/EU⁽⁹⁾. In the specifications, 'Microbiological data' and 'heavy metals' erroneously refer to the three forms of Yeast beta-glucans instead of to the form 'Insoluble in water but dispersible in many liquid matrices'. Therefore, a correction of the entry 'Yeast beta-glucans' in Table 2 of the Annex to Implementing Regulation (EU) 2017/2470 is necessary.
- (21) The novel food 'Phytosterols/phytostanols' was authorised under certain conditions of use by Commission Decision 2004/333/EC⁽¹⁰⁾. On 14 April 2016, the company BASF SE Human Nutrition, ENS/HR notified the Commission that it placed the novel food 'Phytosterols/phytostanols' on the Union market in the category 'Food supplement' pursuant to Article 5 of Regulation (EC) No 258/97. The category 'Food supplement' was erroneously omitted. Therefore, a correction adding 'Food supplement' as allowed food category in the entry 'Phytosterols/phytostanols' in Table 1 of the Annex to Implementing Regulation (EU) 2017/2470 is necessary.
- (22) The novel food 'Arachidonic acid-rich oil from the fungus *Mortierella alpina*' was authorised under certain conditions of use by Commission Decision 2008/968/EC⁽¹¹⁾. The following non-genetically modified strain 'CBS 210.32' of the fungus *Mortierella alpina* was erroneously not included in the specifications. Therefore, this strain should be added to the entry 'Arachidonic acid-rich oil from the fungus *Mortierella alpina*' in Table 2 of the Annex to Implementing Regulation (EU) 2017/2470.
- (23) The novel food 'Epigallocatechin gallate as a purified extract from green tea leaves (*Camellia sinensis*)' was initially authorised under certain conditions of use pursuant to Article 5 of Regulation (EC) No 258/97. The food category 'Foods fortified in accordance with Regulation (EC) No 1925/2006' was added erroneously and should be deleted from this entry. Furthermore, a correction adding 'Foods' to 'food supplements as defined in Directive 2002/46/EC' as the allowed food category in the entry 'Epigallocatechin gallate as a purified extract from green tea leaves (*Camellia sinensis*)' in Table 1 of the Annex to Implementing Regulation (EU) 2017/2470 is necessary.
- (24) The novel food 'Lycopene from tomatoes' was authorised under certain conditions of use pursuant to Article 5 of Regulation (EC) No 258/97. The food category 'Food supplement' was omitted erroneously and should be added to this entry. Therefore, a correction adding 'Food supplement' as allowed food category in the entry 'Lycopene from tomatoes' in Table 1 of the Annex to Implementing Regulation (EU) 2017/2470 is necessary.

- (25) In addition, after the publication of Implementing Regulation (EU) 2017/2470, several typographical errors have been identified in the Annex. While such typographic errors are usually corrected by a corrigendum, for the sake of clarity for economic operators and enforcement authorities, the correction of those typographical errors should be included in this correcting act.
- (26) Given the number of corrections, it is appropriate to replace the whole Annex to Implementing Regulation (EU) 2017/2470.
- (27) The measures provided for in this Regulation are in accordance with the opinion of the Standing Committee on Plants, Animals, Food and Feed,

HAS ADOPTED THIS REGULATION:

Article 1

The Annex to Implementing Regulation (EU) 2017/2470 is replaced by the Annex to this Regulation.

Article 2

This Regulation shall enter into force on the twentieth day following that of its publication in the *Official Journal of the European Union*.

This Regulation shall be binding in its entirety and directly applicable in all Member States.

Done at Brussels, 23 July 2018.

For the Commission The President Jean-Claude JUNCKER

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 the novel food may be used		Additional specific labelling requirements	Other requirements
<i>N</i> -Acetyl-D- neuraminic acid	Specified food category Infant and follow-on formulae as defined by Regulation (EU) No 609/2013 ^a Processed cereal-based foods and baby foods for infants and young children	Maximum levels 0,05 g/L of reconstituted formula 0,05 g/kg for solid foods	The designation of the novel food on the labelling of the foodstuffs containing it shall be ' <i>N</i> - acetyl-D- neuraminic acid' Food supplements containing <i>N</i> -acetyl-D- neuraminic acid shall bear a statement	
	as defined by Regulation (EU) No 609/2013 Foods for special medical purposes for infants and young children as defined by Regulation (EU) No 609/2013	In accordance with the particular nutritional requirements of the infants and young children for whom the	that the food supplement should not be given to infants, young children and children under 10 years of age where they consume breast milk or other foods with	

	products are intended but in any case not higher than the maximum levels specified for the category mentioned in the table corresponding to the products.	added <i>N</i> -acetyl- D-neuraminic acid within the same twenty four hour period.
Total diet replacement foods for weight control as defined by Regulation (EU) No 609/2013	0,2 g/L (drinks) 1,7 g/kg (bars)	
Foods bearing statements on the absence or reduced presence of gluten in accordance with the requirements of Commission Implementing Regulation (EU) No 828/2014 ^b	1,25 g/kg	
Unflavoured pasteurised and sterilised (including UHT) milk-based products	0,05 g/L	
Unflavoured fermented milk- based products, heat treated after fermentation, flavoured fermented milk products including heat- treated products	0,05 g/L (beverages) 0,4 g/kg (solids)	
Dairy analogues, including beverage whiteners	0,05 g/L (beverages) 0,25 g/kg (solids)	

Changes to legislation: There are currently no known outstanding e	ffects for the
Commission Implementing Regulation (EU) 2018/1023. (See end of Doct	ument for details)

	Cereal bars	0,5 g/kg		
	Table top sweeteners	8,3 g/kg		
	Fruit and vegetable-based drinks	0,05 g/L		
	Flavoured drinks	0,05 g/L		
	Speciality coffee, tea, herbal and fruit infusions, chicory; tea, herbal and fruit infusions and chicory extracts; tea, plant, fruit and cereal preparations for infusions	0,2 g/kg		
	Food Supplements as defined in Directive 2002/46/EC ^c	300 mg/day for general population older than 10 years 55 mg/day for infants 130 mg/day for young children 250 mg/day for children between 3 to 10 years of age		
<i>Adansonia digitata</i> (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'	
Ajuga reptans	Specified food categorv	Maximum levels		
cell cultures	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>		

L-Alanyl-L- Glutamine	Specified food category	Maximum levels		
	Food Supplements as defined in Directive 2002/46/EC			
	Foods for special medical purposes as defined in Regulation (EU) No 609/2013 excluding foods for infants and young children			
	Drinks intended to meet the expenditure of intense muscular effort especially for sportsmen			
Algal oil from the microalgae <i>Ulkenia</i> sp.	Specified food category	Maximum levels of DHA	The designation of the novel food on the labelling of the foodstuffs containing it shall be 'Oil from the micro- algae <i>Ulkenia</i> <i>sp.</i> '	
	Bakery products (breads, rolls and sweet biscuits)	200 mg/100 g		
	Cereal bars	500 mg/100 g		
	Non-alcoholic beverages (including milk based beverages)	60 mg/100 ml		
<i>Allanblackia</i> seed oil	Specified food category	Maximum levels	The designation of the novel food	
seed on	Yellow fat spreads and cream based spreads	20 g/100 g	on the labelling of the foodstuffs containing it shall be <i>Allanblackia</i> seed oil'	
<i>Aloe macroclada</i> Baker leaf	Specified food category	Maximum levels		
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</i>		

		<i>Aloe vera</i> (L.) Burm.		
Antarctic Krill oil from <i>Euphausia</i> <i>superba</i>	Specified food category	Maximum levels of combined DHA and EPA	The designation of the novel food on the labelling of the foodstuffs containing it shall be 'Lipid extract from the crustacean Antarctic Krill (<i>Euphausia</i> <i>superba</i>)'	
	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		
	Non-alcoholic beverages Milk-based drinks Dairy analogue drinks	80 mg/100 ml		
	Spreadable fat and dressings	600 mg/100 g		
	Cooking fats	360 mg/100 ml		
	Breakfast cereals	500 mg/100 g		
	Bakery products (breads, rolls and sweet biscuits)	200 mg/100 g		
	Nutrition bars/ cereal bars	500 mg/100 g		
	Food Supplements as defined in Directive 2002/46/EC	3 000 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	250 mg/meal		

	as defined in Regulation (EU) No 609/2013 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	200 mg/100 ml		
	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			
Antarctic Krill oil rich in phospholipids from <i>Euphausia</i>	Specified food category	Maximum levels of combined DHA and EPA	The designation of the novel food on the labelling of the foodstuffs	
superba	Dairy products except milk- based drinks	200 mg/100 g or for cheese products 600 mg/100 g	containing it shall be 'Lipid extract from the crustacean	
	Dairy analogues except drinks	200 mg/100 g or for analogues to cheese products 600 mg/100 g	(Euphausia superba)'	
	Non-alcoholic beverages Milk-based	80 mg/100 ml		

beverages Milk-based drinks

Dairy analogue drinks	
Spreadable fat and dressings	600 mg/100 g
Cooking fats	360 mg/100 ml
Breakfast cereals	500 mg/100 g
Bakery products (breads, rolls and sweet biscuits)	200 mg/100 g
Nutrition bars/ cereal bars	500 mg/100 g
Food Supplements as defined in Directive 2002/46/EC	3 000 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	200 mg/100 ml
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			
Arachidonic acid-rich oil	Specified food category	Maximum levels	The designation of the novel food	
from the fungus Mortierella alpina	Infant formula and follow- on formula as defined in Regulation (EU) No 609/2013	In accordance with Regulation (EU) No 609/2013	on the labelling of the foodstuffs containing it shall be 'Oil from <i>Mortierella</i> <i>alpina</i> ' or 'Martierella	
	Foods for special medical purposes for premature infants as defined in Regulation (EU) No 609/2013	In accordance with Regulation (EU) No 609/2013	alpina oil'	
Argan oil from <i>Argania spinosa</i>	Specified food category	Maximum levels	The designation of the novel food	
0	As seasonings	Not specified	on the labelling	
	Food Supplements as defined in Directive 2002/46/EC	In line with normal food use of vegetable oils	containing it shall be 'Argan oil' and if used as seasoning 'Vegetable oil only for seasoning' shall be mentioned on the label	
Astaxanthin- rich oleoresin	Specified food categorv	Maximum levels	The designation	
from Haematococcus pluvialis algae	Food Supplements as defined in Directive 2002/46/EC	40-80 mg/day of oleoresin, resulting $in \le 8$ mg	on the labelling of the foodstuffs containing it shall be 'Astaxanthin'	

		astaxanthin per day		
Basil seeds (<i>Ocimum</i>	Specified food category	Maximum levels		
basilicum)	Fruit juice and fruit/vegetable blend beverages	3 g/200 ml for addition of whole basil seeds (<i>Ocimum</i> <i>basilicum</i>)		
Fermented black bean	Specified food category	Maximum levels	The designation of the novel food	
extract	Food Supplements as defined in Directive 2002/46/EC	4,5 g/day	on the labelling of the foodstuffs containing it shall be 'Fermented black bean (Soya) extract" or 'Fermented Soya extract'	
Bovine lactoferrin	Specified food category	Maximum levels	The designation of the novel food on the labelling of the foodstuffs containing it shall be 'Lactoferrin from cows' milk'	
	Infant formula and follow- on formula as defined in Regulation (EU) No 609/2013 (ready to drink)	100 mg/100 ml		
	Foods on dairy basis intended for young children (ready to eat/drink)	200 mg/100 g		
	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	2 000 mg/100 g		
	Ice cream	130 mg/100 g		
	Cakes and pastries	1 000 mg/100 g		
	Candies	750 mg/100 g		
	Chewing gum	3 000 mg/100 g		
Buglossoides arvensis seed oil	Specified food category	Maximum levels of stearidonic acid (STA)	The designation of the novel food on the labelling of the foodstuffs	
	Dairy products	250 mg/100 g	containing it shall be 'Refined <i>Buglossoides</i> oil'	
	and analogues	75 mg/100 g for drinks		
	Cheese and cheese products	750 mg/100 g		
	Butter and other fat and oil emulsions including spreads (not for cooking or frying purposes)	750 mg/100 g		
	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	In accordance with the particular nutritional		

	Regulation (EU) No 609/2013, excluding foods for special medical purposes intended for infants and young children	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		
Calanus	Specified food	Maximum	The designation	
<i>finmarchicus</i> oil	category	levels	of the novel food	
	Food supplements as defined in Directive 2002/46/EC	2,3 g/day	on the labelling of the foodstuffs containing it shall be 'oil from <i>Calanus</i> <i>finmarchicus</i> (crustacean)'	
Chewing	Specified food	Maximum Iovals	The designation	
gum base	Wathvilonoum		of the novel food	
glycol)	-7. Hermite Guin	0 70	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	
(Methyl vinyl ether-maleic anhydride copolymer)	Chewing gum	2 %	on the labelling of the foodstuffs containing it shall be 'Gum	

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			base (including methyl vinyl ether-maleic anhydride copolymer)' or 'Gum base (including CAS No 9011-16-9)'
Chia oil from Salvia hispanica	Chia oil from Salvia hispanicaSpecified food categoryMaximum levelsThe d of the on the of theFats and oils10 %0 fthe of the	The designation of the novel food on the labelling of the foodstuffs containing it	
	Food Supplements as defined in Directive 2002/46/EC	2 g/day	shall be 'Chia oil (<i>Salvia</i> <i>hispanica</i>)'
Chia seeds (Salvia	Specified food category	Maximum levels	1. The designation
(Saivia hispanica)	Bread products	5 % (whole or ground chia seeds)	of the novel food
	Baked products	10 % whole chia seeds	labelling of the
	Breakfast cereals	10 % whole chia seeds	foodstuffs containing
	Fruit, nut and seed mixes	10 % whole chia seeds	it shall be 'Chia
	Fruit juice and fruit/vegetable blend beverages	15 g/day for addition of whole, mashed or ground chia seeds	seeds (Salvia hispanica)' 2. Pre- packaged Chia
	Pre-packaged Chia seed as such	15 g/day whole chia seeds	(Salvia hispanica) seeds
	Fruit spreads	1 % whole chia seeds	shall carry additional
	Yoghurt	1,3 g whole chia seeds per 100 g of yoghurt or 4,3 g whole chia seeds per 330 g of yoghurt (portion)	labelling to inform the consumer that the daily intake is no

	Sterilised ready to eat meals based on cereal grains, pseudocereals grains and/or pulses	5 % whole chia seeds	more than 15 g.	
Chitin- glucan from <i>Aspergillus</i>	Specified food category Food	<i>Maximum</i> <i>levels</i> 5 g/day	The designation of the novel food on the labelling	
niger	Supplements as defined in Directive 2002/46/EC		of the foodstuffs containing it shall be 'Chitin- glucan from <i>Aspergillus</i> <i>niger</i> '	
Chitin-glucan	Specified food	Maximum levels	The designation	
from Fomes fomentarius	Food Supplements as defined in Directive	5 g/day	of the novel food on the labelling of the foodstuffs containing it shall be 'Chitin-glucan from <i>Fomes</i> <i>fomentarius</i> '	
	2002/46/EC			
Chitosan extract from	Specified food category	Maximum levels	The designation of the novel food	
fungi (<i>Agaricus</i> bisporus; Aspergillus niger)	Food Supplements as defined in Directive 2002/46/EC	In line with normal use in food supplements of chitosan from	on the labelling of the foodstuffs containing it shall be 'Chitosan extract from <i>Agaricus</i>	
		ciustaccalis	<i>bisporus</i> ' or 'Chitosan extract from <i>Aspergillus</i> <i>niger</i> '	
Chondroitin sulphate	Specified food category	Maximum levels	The designation of the novel food	
	Food supplements as defined in Directive 2002/46/EC for adult population, excluding pregnant and lactating women	1 200 mg/day	on the labelling of the foodstuffs containing it shall be 'Chondroitin sulphate derived from microbial fermentation and sulphation'	

Chromium Picolinate	Specified food category	Maximum levels of total chromium	The designation of the novel food on the labelling	
	Foods covered by Regulation (EU) No 609/2013	250 μg/day	of the foodstuffs containing it shall be 'Chromium	
	Foods fortified in accordance with Regulation (EC) No 1925/2006 ^d		Picolinate	
<i>Cistus incanus</i> L. Pandalis	Specified food category	Maximum levels	The designation of the novel food	
herb	rb Herbal infusions Intended daily intake: 3 g herbs/ day (2 cups/day) of the hover hover hover hover hover on the labelling of the foodstuffs containing it shall be ' <i>Cistus</i> <i>incanus</i> L. Pandalis herb'	on the labelling of the foodstuffs containing it shall be ' <i>Cistus</i> <i>incanus</i> L. Pandalis herb'		
Citicoline	Specified food category	Maximum levels	1. The designat	ion
	Food Supplements as defined in Directive 2002/46/EC	500 mg/day	of the novel food on the labelling of the foodstuft containin it shall be 'Citicolin containin citicolind shall bear a statemen that the product is not intended to be consume by children	
	Foods for special medical purposes as defined in Regulation (EU) No 609/2013	250 mg per serving and a maximum daily consumption level of 1 000 mg		fs ng ne' t t

Clostridium butyricum	Specified food category	Maximum levels 1,35 × 10 ⁸ CFU/ day	The designation of the novel food on the labelling of the foodstuffs containing it shall be ' <i>Clostridium</i> <i>butyricum</i> MIYAIRI 588 (CBM 588)' or ' <i>Clostridium</i> <i>butyricum</i> (CBM 588)'	
	Food Supplements as defined in Directive 2002/46/EC			
Extract of defatted cocoa	Specified food category	Maximum levels	Consumers shall be instructed not	
powder	Nutrition bars	1 g/day and 300 mg	to consume more than 600 mg	
	Milk based beverages	polyphenols	polyphenols corresponding to	
	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	to not more than 550 mg of extract of defatted cocoa powder in one portion of food (or food supplement)	corresponding to 1,1 g of extract of defatted cocoa powder per day	
Low fat cocoa extract	Specified food category	Maximum levels	Consumers shall be instructed not	
	Foods including food supplements as defined in Directive 2002/46/EC	730 mg per serving and around 1,2 g/day	to consume more than 600 mg of cocoa flavanols per day	
Coriander seed oil from	Specified food category	Maximum levels	The designation	
Coriandrum sativum	Food Supplements as defined	600 mg/day	on the labelling of the foodstuffs containing it shall be	

	in Directive 2002/46/EC		'Coriander seed oil'	
<i>Crataegus pinnatifida</i> dried fruit	<i>Specified food</i> <i>category</i> Herbal infusions	<i>Maximum</i> <i>levels</i> In line with	The designation of the novel food on the labelling	
	Jams and jellies in accordance with Directive 2001/113/EC ^e	normal food use of <i>Crataegus</i> <i>laevigata</i>	of the foodstuffs containing it shall be <i>Crataegus</i> <i>pinnatifida</i> dried	
	Compotes		fruit'	
α-cyclodextrin	Not specified	<u></u>	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	The designation	
preparation produced by <i>Leuconostoc</i> <i>mesenteroides</i>	Bakery products	5 %	on the labelling of the foodstuffs containing it shall be 'Dextran'	
Diacylglycerol oil of plant	Specified food category	Maximum levels	The designation of the novel food	
origin	Cooking oils		on the labelling	
	Fat spreads		containing	
	Salad dressings		it shall be Diacylglycerol	
	Mayonnaise		oil of plant origin (at least 80 % diacylglycerols)'	
	Meal replacement for weight control (as drinks)			
	Bakery products			

	Yoghurt type products				
Dihydrocapsiate (DHC)	Specified food category	Maximum levels	1.	The designati	on
	Cereal bars	9 mg/100 g		of the	
	Biscuits, cookies and crackers	9 mg/100 g		novel food on the	
	Rice based snacks	12 mg/100 g	labelling of the foodstuff containin it shall be 'Dihydro	fs ng ocapsiate'	
	Carbonated drinks, dilutable drinks, fruit juice based beverages	1,5 mg/100 ml			
	Vegetable drinks	2 mg/100 ml	2.	2. Food	onte
	Coffee based drinks, tea based drinks	1,5 mg/100 ml	suppleme containin synthetic dihydroc will be labelled as 'not intended for	apsiate	
	Flavoured water — still	1 mg/100 ml			
	Precooked oatmeal cereal	2,5 mg/100 g			
	Other cereals	4,5 mg/100 g		children	
	Ice cream, dairy desserts	4 mg/100 g	4.5 years'		
	Pudding mixes (ready to eat)	2 mg/100 g			
	Products based on yoghurt	2 mg/100 g			
	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	1		
	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/100 ml	-	
Dried extract of Lippia citriodora	Specified food category	Maximum levels	The designation of the novel food	
from cell cultures	Food Supplements as defined in Directive 2002/46/EC	In line with normal use in food supplements of a similar extract from the leaves of <i>Lippia</i> <i>citriodora</i>	on the labelling of the foodstuffs containing it shall be 'dried extract of <i>Lippia</i> <i>citriodora</i> from cell cultures HTN [®] Vb'	
Echinacea angustifolia	Specified food category	Maximum levels		
extract from cell cultures	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</i> <i>angustifolia</i>		
<i>Echinacea</i> <i>purpurea</i> extract from cell cultures	Specified food category	Maximum levels	The designation of the novel food	
	Food Supplements as defined in Directive 2002/46/EC	In line with normal use in food supplements of a similar extract from florets within the flower head	on the labelling of the foodstuffs containing it shall be 'dried extract of <i>Echinacea</i> <i>purpurea</i> from cell cultures HTN [®] Vb'	

		of Echinacea purpurea		
<i>Echium plantagineum</i> oil	Specified food category	Maximum levels of stearidonic acid (STA)	The designation of the novel food on the labelling of the foodstuffs	
	Milk-based products and drinkable yoghurt products delivered in a single dose	250 mg/100 g; 75 mg/100 g for drinks	containing it shall be 'Refined echium oil'	
	Cheese preparations	750 mg/100 g		
	Spreadable fat and dressings	750 mg/100 g		
	Breakfast cereals	625 mg/100 g		
	Food supplements as defined in Directive 2002/46/EC	500 mg/day		
	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		
Epigallocatechin	Specified food	Maximum Ievels	The labelling	
purified extract from green tea leaves (<i>Camellia</i> <i>sinensis</i>)	Foods including food supplements as defined in Directive 2002/46/EC	150 mg of extract in one portion of food or food supplement	statement that consumers should not consume more than 300 mg of extract per day	

L-ergothioneine	Specified food category	Maximum levels	The designation of the novel food	
	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	on the labelling of the foodstuffs containing it shall be 'L- ergothioneine'	
Ferric Sodium EDTA	Specified food category	Maximum levels (expressed as anhydrous EDTA)	The designation of the novel food on the labelling of the foodstuffs containing it	
	Food supplements as defined in Directive 2002/46/EC	18 mg/day for children 75 mg/day for adults	shall be 'Ferric Sodium EDTA'	
	Foods covered by Regulation (EU) No 609/2013	12 mg/100 g		
	Foods fortified in accordance with Regulation (EC) No 1925/2006	-		
Ferrous ammonium	Specified food category	Maximum levels	The designation of the novel food	
phosphate	Food supplements as defined in Directive 2002/46/EC	To be used in compliance with Directive 2002/46/EC, Regulation	on the labelling of the foodstuffs containing it shall be 'Ferrous ammonium phosphate'	
	Foods covered by Regulation (EU) No 609/2013	(EU) No 609/2013 and/or Regulation (EC) No 1925/2006		
	Foods fortified in accordance with Regulation (EC) No 1925/2006			

Fish peptides from <i>Sardinops</i> <i>sagax</i>	Specified food category	Maximum levels fish peptide product	The designation of the novel food on the labelling of the foodstuffs containing it shall be 'Fish (<i>Sardinops</i> <i>sagax</i>) peptides'	
	Foods based on yoghurt, yoghurt drinks, fermented milk products, and powdered milk	0,48 g/100 g (ready to eat/ drink)		
	Flavoured water, and vegetable- based drinks	0,3 g/100 g (ready to drink)		
	Breakfast cereals	2 g/100 g		
	Soups, stews and soup powders	0,3 g/100 g (ready to eat)		
Flavonoids from Glycyrrhiza glabra	Specified food category	Maximum levels of flavonoids from Glycyrrhiza glabra	1. The designat of the novel food on the	Beverages tti co ntaining flavonoids shall be presented to the final consumer as g single portions. ffs ing hoids <i>thiza</i>
	Beverages based on milk	120 mg/day	labelling of the	
	Beverages based on yoghurt		containi it shall	
	Beverages based on fruit or vegetables		be 'Flavon from	
	Food Supplements as defined in Directive 2002/46/EC	120 mg/day	<i>Glycyrrh</i> <i>glabra</i> <i>L</i> .' 2. The labelling of the	
	Total diet replacement for weight control as defined in Regulation (EU) No 609/2013	120 mg/day	foods where the product was added	
	Foods for special medical purposes as defined in Regulation (EU) No 609/2013	120 mg/day	as a novel food ingredier shall bear a statemen that:	nt it

	(a)	the
	()	product
		should
		not
		be
		consumed
		bv
		pregnant
		and
		breast
		feeding
		women.
		children
		and
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		adolescents:
		and
	(b)	people
	(-)	taking
		prescription
		drugs
		should
		only
		consume
		the
		product
		under
		medical
		supervision.
	(c)	a
	(•)	maximum
		of
		120 mg
		of
		flavonoids
		per
		dav
		should
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		consumed.
3.	The	
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	final	
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			containir it.	Ig
Fucoidan extract from the seaweed <i>Fucus</i> <i>vesiculosus</i>	Specified food category Foods including food supplements as defined in Directive 2002/46/EC for the general population	Maximum levels 250 mg/day	The designation of the novel food on the labelling of the foodstuffs containing it shall be 'Fucoidan extract from seaweed <i>Fucus</i> <i>vesiculosus</i> '.	
Fucoidan extract from	Specified food category	Maximum levels	The designation of the novel food on the labelling of the foodstuffs containing it shall be 'Fucoidan extract from seaweed Undaria pinnatifida'	
the seaweed Undaria pinnatifida	Foods including food supplements as defined in Directive 2002/46/EC for the general population	250 mg/day		
2'- Fucosyllactose	Specified food category	Maximum levels	1. The designati	on
Fucosynactose	Unflavoured pasteurised and sterilised (including UHT) milk-based products	1,2 g/l	of the novel food on the labelling of the foodstuft containin it shall be '2'- fucosylla 2. The labelling of food supplem containin 2'-	,
	Unflavoured fermented milk- based products	1,2 g/l beverages		ig
		19,2 g/kg products other than beverages		ictose'.
	Flavoured fermented milk- based products including heat- treated products	1,2 g/l beverages		
		19,2 g/kg products other than beverages		ents ng
	Dairy analogues,	1,2 g/l beverages	fucosylla shall	ictose
	beverage whiteners	12 g/kg for products other than beverages	bear a statemen that the supplem should	t
		400 g/kg for whitener		ents
	Cereal bars	12 g/kg	used if other	

Table-top sweeteners	200 g/kg	foods with
Infant formula as defined in Regulation (EU) No 609/2013	1,2 g/l alone or in combination with up to 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	 added 2'- fucosyllactose are consumed the same day. 3. The labelling of food supplements containing
Follow-on formula as defined in Regulation (EU) No 609/2013	1,2 g/l alone or in combination with up to 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	2'- fucosyllactose intended for young children shall bear a statement that the supplements should pot be
Processed cereal-based food and baby	12 g/kg for products other than beverages	used if breast milk or
food for infants and young children as defined in Regulation (EU) No 609/2013	1,2 g/l for liquid food ready for use, marketed as such or reconstituted as instructed by the manufacturer	other foods with added 2'- fucosyllactose are consumed
Milk-based drinks and similar products intended for young children	1,2 g/l for milk- based drinks and similar products added alone or in combination with up to 0,6 g/l lacto- <i>N</i> - neotetraose, at a ratio of 2:1 in the final product ready for use, marketed as such or reconstituted	the same day.

Foods for special medical purposes as defined in Regulation (EU) No 609/2013	as instructed by the manufacturer 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 mixes of these products	9,6 g/l — the maximum level refers to the products ready to use	
Food supplements as defined in Directive	3,0 g/day for general population	

	2002/46/EC, excluding food supplements for infants	1,2 g/day for young children
Galacto- oligosaccharide	Specified food category	Maximum levels (expressed as ratio kg galacto- oligosaccharide/ kg final food)
	Food Supplements as defined in Directive 2002/46/EC	0,333
	Milk	0,02
	Milk drinks	0,03
	Meal replacement for weight control (as drinks)	0,02
	Dairy analogue drinks	0,02
	Yoghurt	0,033
	Dairy based deserts	0,043
	Frozen dairy deserts	0,043
	Fruit drinks and energy drinks	0,021
	Infant meal replacement drinks	0,012
	Baby juice	0,025
	Baby yogurt drink	0,024
	Baby desert	0,027
	Baby snack	0,143
	Baby cereals	0,027
	Drinks intended to meet the expenditure of	0,013

Changes to legislation: There are	currently no known outstanding eg	fects for the
Commission Implementing Regulation ((EU) 2018/1023. (See end of Docu	ment for details)

	intense muscular effort especially for sportsmen Juice Fruit pie fillings Fruit preparations	0,021 0,059 0,125
	Bars	0,125
	Cereals	0,125
	Infant formula and follow- on formula as defined in Regulation (EU) No 609/2013	0,008
Glucosamine HCl	Specified food category	Maximum levels
	Food Supplements as defined in Directive 2002/46/EC	In line with normal food use of glucosamine from shell fish
	Foods covered by Regulation (EU) No 609/2013	
	Meal replacement for weight control	
	Foods intended	
	to meet the expenditure of intense muscular effort, especially for sportsmen	

	Regulation (EU) No 828/2014			
Glucosamine sulphate KCl	Specified food category	Maximum levels		
	Food Supplements as defined in Directive 2002/46/EC	In line with normal food use of glucosamine from shell fish	-	
Glucosamine sulphate NaCl	Specified food category	Maximum levels		
. F	Food Supplements as defined in Directive 2002/46/EC	In line with normal food use of glucosamine from shell fish		
Guar Gum	Specified food category	Maximum levels	1. The designat	ion
	Fresh dairy products such as yogurts, fermented milks, fresh cheeses and other dairy- based desserts.	1,5 g/100 g	of the novel food on the labelling of the foodstuf	fs
	Fruit or vegetable- based liquid foodstuffs (of the 'smoothie' variety)	1,8 g/100 g	containing it shall be 'Guar Gum'. 2. A specific mention of the possible	ng
	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	digestive discomfe linked to the exposure of children aged under 8 to guar gum must be visible on the label	prt •

3.	of any foodstuff containin it. For example 'Excessi consump of these products may cause digestive discomfe especiall for children under 8 years of age'. In the case of products with two compartic containin dairy and cereal products respective the instruction for use must clearly specify the need to mix the cereal and the dairy product before consump in order to take	fs ng ve tion prt, y ments ng rely, ons
	before consump	tion,
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Heat-treated milk products fermented with <i>Bacteroides</i> <i>xylanisolvens</i>	Specified food category Fermented milk products (in liquid, semi- liquid and spray- dried powder forms)	Maximum levels	risk of gastro- intestinal obstruction.
Hydroxytyrosol	Specified food category Fish and vegetable oils, (except olive oils and olive pomace oils as defined in Part VIII of Annex VII of Regulation (EU) No 1308/2013 ^f), placed as such on the market Spreadable fats as defined in Part VII of Annex VII of Regulation (EU) No 1308/2013, placed as such on the market	Maximum levels 0,215 g/kg 0,175 g/kg	The designation of the novel food on the labelling of the food products containing it shall be 'hydroxytyrosol'. The labelling of the food products containing hydroxytyrosol shall bear the following statements: (a) This food product should not be consumed by children under the age of three years, pregnant women, and lactating women; (b) This food product should not be used for

			cooking, baking or frying'		
Ice Structuring Protein type III HPLC 12	Specified food category Edible ices	Maximum levels 0,01 %	The designation of the novel food on the labelling of the foodstuffs		
			containing it shall be 'Ice Structuring Protein'		
Aqueous	Specified food	Maximum	The designation		
extracts of dried leaves of	Herbal infusions	In line with	of the novel food on the labelling		
llex guayusa	Food Supplements as defined in Directive 2002/46/EC	normal use in herbal infusions and food supplements of a similar aqueous extract of dried leaves of <i>Ilex</i> <i>paraguariensis</i>	of the foodstuffs containing it shall be 'Extracts of dried leaves of <i>Ilex guayusa</i> '		
Isomalto- oligosaccharide	Specified food category	Maximum levels	1. The designation		
ongosacenariae	Energy-Reduced Soft Drinks	6,5 %	of the novel		
	Energy Drinks	5,0 %	- food on the		
	Foods intended to meet the expenditure of intense muscular efforts, especially for sportsmen (including isotonic drinks)	6,5 %	labelling of the foodstuffs containing it shall be 'Isomaltooligosaccharide'. 2. Foods containing the		
	Fruit Juices	5 %	novel		
	Processed Vegetables and Vegetable Juices	5 %	ingredieht must be labelled as 'a		
	Other Soft Drinks	5 %	source of		
	Cereals Bars	10 %	glucose'		
	Cookies, Biscuits	20 %			
	Breakfast Cereal Bars	25 %			
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	Hard Candies	97 %			
	Soft Candies/ Chocolate Bars	25 %			
	Meal replacement for weight control (as bars or milk based)	20 %			
Isomaltulose	Not specified		2.	The designat of the novel food on the labelling of the foodstuf containin it shall be 'Isomalt The designat of the novel food on the labelling shall be accompa by indication that the 'Isomalt is a source of glucose and fructose	ion fs ng ulose'. ion n ulose
Lactitol	Specified food	Maximum levels	The desi	ignation	
	Food Supplements as defined in Directive 2002/46/EC (capsules or	20 g/day	on the la of the fo supplem containi it shall b 'Lactito	bood belling bood hents ng be l'	

	tablets) intended for the adult population				
Lacto-N-	Specified food	Maximum Ievels	1.	The	
neotetraose	Unflavoured pasteurised and sterilised (including UHT) milk-based products	0,6 g/l		of the novel food on the labelling of the	
	Unflavoured fermented milk- based products	0,6 g/l for beverages 9,6 g/kg for products other than beverages		it shall be 'lacto-N- neotetrac	Istuffs raining all to-N- retraose'. Iling bod blements raining b-N- retraose 1 r a ement the blements all
	Flavoured fermented milk- based products including heat- treated products	0,6 g/l for beverages 9,6 g/kg for products other than beverages	 The labelling of food supplem containing lacto-<i>N</i>-neotetrates shall bear a statement that the supplem should not be used if other foods with added lacto-<i>N</i>-neotetrate are consume the same day. The labelling of food supplem 	The labelling of food suppleme containin lacto- <i>N</i> -	
	Dairy analogues, including beverage whiteners	0,6 g/l for beverages 6 g/kg for products other than beverages 200 g/kg for whitener		neotetrac shall bear a statemen that the supplement should	
	Cereal bars Table-top sweeteners	6 g/kg 100 g/kg		not be used if other foods	
	Infant formula as defined in Regulation (EU) No 609/2013	0,6 g/l in combination with up to 1,2 g/l of 2'- fucosyllactose at a ratio of 1:2 in the final product ready for use, marketed as such or reconstituted as instructed by the manufacturer		with added lacto- <i>N</i> - neotetrac are consume the same day. The labelling of food supplement	ose d
	Follow-on formula as defined in Regulation (EU) No 609/2013	0,6 g/l in combination with up to 1,2 g/l of 2'- fucosyllactose at		containin lacto- <i>N</i> - neotetrac intended for	ng ose

Processed cereal-based food and baby food for infants and young children as defined in Regulation (EU) No 609/2013 Milk-based drinks and similar products intended for young children	a ratio of 1:2 in the final product ready for use, marketed as such or reconstituted as instructed by the manufacturer 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 0,6 g/l for milk- based drinks and similar products added alone or in combination with 2'- fucosyllactose, at a ratio of 1:2 in the final product ready for use, marketed as such or reconstituted as instructed by the manufacturer	young children shall bear a statement that the supplements should not be used if breast milk or other foods with added lacto- <i>N</i> - neotetraose are consumed the same day.
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	2,4 g/l for drinks 20 g/kg for bars	
Bread and pasta products bearing statements on the absence or	30 g/kg	

Changes to legislation: There are	currently no known	<i>i</i> outstanding effects for the
Commission Implementing Regulation	(EU) 2018/1023. (S	See end of Document for details)

	reduced presence of gluten in accordance with the requirements of Commission Implementing Regulation (EU) No 828/2014 Flavoured drinks Coffee, tea (excluding black tea), herbal and fruit infusions, chicory; tea, herbal and fruit infusions and chicory extracts; tea, plant, fruit and cereal	0,6 g/l 4,8 g/l — the maximum level refers to the products ready to use		
	preparations for infusions, as well as mixes and instant mixes of these products			
	Food supplements as defined in Directive 2002/46/EC, excluding food supplements for infants	1,5 g/day for general population 0,6 g/day for young children		
Lucerne leaf extract from	Specified food category	Maximum levels	The designation of the novel food	
Medicago sativa	Food supplements as defined in Directive 2002/46/EC	10 g/day	on the labelling of the foodstuffs containing it shall be 'Lucerne (<i>Medicago</i> <i>sativa</i>) protein' or 'Alfalfa (<i>Medicago</i> <i>sativa</i>) protein'.	
Lycopene	Specified food category Fruit/vegetable juice-based drinks (including concentrates)	<i>Maximum</i> <i>levels</i> 2,5 mg/100 g	The designation of the novel food on the labelling of the foodstuffs containing	

	Drinks intended to meet the expenditure of intense muscular effort especially for sportsmen Total diet replacement for	2,5 mg/100 g 8 mg/meal	it shall be 'Lycopene'	
	weight control as defined in Regulation (EU) No 609/2013 and meal replacements for weight control			
	Breakfast cereals	5 mg/100 g		
	dressings	10 mg/100 g		
	Soups other than tomato soups	1 mg/100 g		
	Bread (including crispy breads)	3 mg/100 g		
	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		
Lycopene from <i>Blakeslea</i>	Specified food category	Maximum levels	The designation of the novel food	
trispora	Fruit/vegetable juice-based drinks (including concentrates)	2,5 mg/100 g	on the labelling of the foodstuffs containing it shall be	
	Drinks intended to meet the expenditure of intense muscular	2,5 mg/100 g	Lycopene	

Changes to legislation: There are currently no known outstanding effects for the	
Commission Implementing Regulation (EU) 2018/1023. (See end of Document for details	り

	effort especially for sportsmen			
	Total diet replacement for weight control as defined in 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/100 g		
	Soups other than tomato soups	1 mg/100 g		
	Bread (including crispy breads)	3 mg/100 g		
	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		
Lycopene from tomatoes	Specified food category	Maximum levels	The designation of the novel food	
	Fruit/vegetable juice-based drinks (including concentrates)	2,5 mg/100 g	on the labelling of the foodstuffs containing it shall be 'Lycopene'	
	Drinks intended to meet the expenditure of intense muscular effort especially for sportsmen	2,5 mg/100 g		
	Total diet replacement for weight control	8 mg/meal		

	as defined in Regulation (EU) No 609/2013 and meal replacements for weight control			
	Breakfast cereals	5 mg/100 g		
	Fats and dressings	10 mg/100 g		
	Soups other than tomato soups	1 mg/100 g		
	Bread (including crispy breads)	3 mg/100 g		
	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		
Lycopene oleoresin from tomatoes	Specified food category	Maximum levels of lycopene	The designation of the novel food on the labelling	
	Fruit/vegetable juice-based drinks (including concentrates)	2,5 mg/100 g	of the foodstuffs containing it shall be 'Lycopene	
	Drinks intended to meet the expenditure of intense muscular effort especially for sportsmen	2,5 mg/100 g	tomatoes'	
	Total diet replacement for weight control covered by Regulation (EU) No 609/2013 and meal	8 mg/meal		

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	replacements for weight control			
	Breakfast cereals	5 mg/100 g		
	Fats and dressings	10 mg/100 g		
	Soups other than tomato soups	1 mg/100 g		
	Bread (including crispy breads)	3 mg/100 g		
	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	Specified food	Maximum Iavals	The designation	
citrate malate	Food Supplements as defined		on the labelling of the foodstuffs containing	
	in Directive 2002/46/EC		'Magnesium citrate malate'	
Magnolia Bark Extract	In Directive 2002/46/EC Specified food category	Maximum levels	'Magnesium citrate malate' The designation	
Magnolia Bark Extract	In Directive 2002/46/EC Specified food category Mints (confectionary products) Chewing gum	Maximum levels 0,2 % for breath freshening purposes. Based on a 0,2 % maximum incorporation level and a maximum gum/ mint size of 1,5 g each, each gum or mint serving will contain no more than 3 mg of magnolia bark extract.	'Magnesium citrate malate' The designation of the novel food on the labelling of the foodstuffs containing it shall be 'Magnolia Bark Extract'	
Magnolia Bark Extract Maize-germ oil high in	In Directive 2002/46/EC Specified food category Mints (confectionary products) Chewing gum Specified food category	Maximum levels 0,2 % for breath freshening purposes. Based on a 0,2 % maximum incorporation level and a maximum gum/ mint size of 1,5 g each, each gum or mint serving will contain no more than 3 mg of magnolia bark extract. Maximum levels	The designation of the novel food on the labelling of the foodstuffs containing it shall be 'Magnolia Bark Extract'	

	as defined in Directive 2002/46/EC Chewing gum	2 %	containing it shall be 'Maize- germ oil extract'	
Methylcellulose	Specified food category	Maximum levels	The designation	Methylcellulose is not to be
	Edible ices	2 %	on the labelling	used in foods specially prepared for young children
	Flavoured drinks		of the foodstuffs	
	Flavoured or unflavoured fermented milk products		it shall be 'Methylcellulose'	
	Cold desserts (dairy, fat, fruit, cereal, egg-based products)			
	Fruit preparations (pulps, purees or compotes)			
	Soups and broths			
(6S)-5- methyltetrahydro acid, glucosamine salt	Specified food of6 We gory	Maximum levels	The designation of the novel food on the labelling of the foodstuffs containing it shall be '(6S)-5- methyltetrahydrof acid, glucosamine salt' or '5MTHF- glucosamine'	olic
	Food Supplements as defined in Directive 2002/46/EC as a source of folate			
Monomethylsilar (Organic Silicon)	e Sner ified food category	Maximum levels of silicon	The designation of the novel food on the labelling	
	Food Supplements as defined in Directive 2002/46/EC for	10,40 mg/day	of the food supplements containing it shall be	

	adult population (in liquid form)		'Organic silicon (monomethylsilan	etriol)'
Mycelial extract from Shiitake	Specified food category	Maximum levels	The designation of the novel food	
mushroom	Bread products	2 ml/100 g	on the labelling	
(Lentinula edodes)	Soft drinks	0,5 ml/100 ml	of the foodstuffs	
,	Ready prepared meals	2,5 ml per meal	it shall be 'extract from	
	Foods based on yoghurt	1,5 ml/100 ml	<i>Lentinula</i> <i>edodes</i> ² or	
	Food supplements as defined in Directive 2002/46/EC	2,5 ml per day dose	'extract from Shiitake mushroom'	
Noni fruit juice (<i>Morinda</i>	Specified food category	Maximum levels	The designation of the novel food	
citrifolia)	Pasteurised fruit and fruit nectar based drinks	30 ml with one serving (up to 100 % noni juice) or 20 ml twice a day, not more than 40 ml per day	on the labelling of the foodstuffs containing it shall be 'Noni juice' or 'Juice of <i>Morinda</i> <i>citrifolia</i> '	
Noni fruit juice powder (<i>Morinda</i> <i>citrifolia</i>)	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</i> <i>citrifolia</i> '	
Noni fruit puree and concentrate	Specified food category	Maximum levels	The designation of the novel food	
(Morinda citrifolia)		Fruit puree	on the labelling	
curijona)	Candy/ confectionery	45 g/100 g	containing it shall be:	
	Cereal bars	53 g/100 g	For fruit puree:	
	Powdered nutritional drink mixes (dry weight)	53 g/100 g	<i>citrifolia</i> fruit puree' or 'Noni fruit puree'	

Carbonated beverages	11 g/100 g	For fruit concentrate:
Ice cream & sorbet	31 g/100 g	<i>Morinda</i> <i>citrifolia</i> fruit concentrate'
Yoghurt	12 g/100 g	or 'Noni fruit
Biscuits	53 g/100 g	concentrate
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	

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	Breakfast cereals (wholegrain)	20 g/100 g		
	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		
Noni leaves (<i>Morinda</i>	Specified food category	Maximum levels	1.	The designation
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</i> <i>citrifolia</i>	2.	of the novel food on the labelling of the foodstuffs containing it shall be 'Noni leaves' or 'leaves' or 'leaves' of <i>Morinda</i> <i>citrifolia</i> '. Instructions shall be given to the consumer that a cup of infusion should not be prepared with more than

Noni fruit powder (<i>Morinda</i> <i>citrifolia</i>)	Specified food category Food Supplements as defined in Directive 2002/46/EC	<i>Maximum</i> <i>levels</i> 2,4 g per/day	l g of dried and roasted leaves of Morinda citrifolia The designation of the novel food on the labelling of the foodstuffs containing it shall be 'Morinda citrifolia fruit powder' or 'Noni fruit powder'	
<i>Odontella aurita</i> microalgae	Specified food categoryFlavoured pastaFish soupsMarine terrinesBroth preparationsCrackersFrozen breaded fish	Maximum levels 1,5 % 1 % 0,5 % 1 % 1,5 %	The designation of the novel food on the labelling of the foodstuffs containing it shall be 'Odontella aurita microalgae'	
Oil enriched with phytosterols/ phytostanols	Specified food category Spreadable fats as defined in Annex VII, Part VII and Appendix II, points B and C of Regulation (EU) No 1308/2013, and excluding cooking and frying fats and spreads based on butter or other animal fat	Maximum levels of phytosterols/ phytostanols1.The products containing the novel food ingrediend shall be presented in such a manner that they can be	In accordance with Annex III.5 to Regulation (EU) No 1169/2011 ng nt d	

Oil extracted from squids	Specified food category	Maximu levels of	m DHA	The designation of the novel food	
Oil extracted	Milk based products, such as products based on semi- skimmed 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 vegetable fat or protein Soya drinks Salad dressings, mayonnaise and spicy sauces	2. 3. <i>Maximu</i>	easily divided into portions that contain either a maximul of 3 g (in case of one portion per day) or a maximul of 1 g (in case of three portions per day) of added phytosta The amount of phytosta added to a containe of beverage shall not exceed 3 g. Salad dressing mayonna and spicy sauces shall be packed as single	n n rols/ nols. r s s, iise	
	Milk based		easily		
	[1	11		

		and EPA combined	on the labelling of the foodstuffs	
	Dairy products except milk- based beverages	200 mg/100 g or for cheese products 600 mg/100 g	containing it shall be 'Squid oil'.	
	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		
	Bakery products (breads and bread rolls)	200 mg/100 g		
	Cereal bars	500 mg/100 g		
	Non-alcoholic beverages (including milk- based beverages)	60 mg/100 ml		
	Food Supplements as defined in Directive 2002/46/EC	3 000 mg/day for 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 intended		
	Total diet replacement for weight control defined in Regulation (EU) No 609/2013 and meal replacements for weight control	200 mg/meal		
Pasteurised fruit-based	Specified food category	Maximum levels	The wording 'pasteurised by	

preparations produced using high-pressure treatment	Types of fruit: apple, apricot, banana, blackberry, blueberry, cherry, coconut, fig, grape, grapefruit, mandarin, mango, melon, peach, pear, pineapple, prune, raspberry, rhubarb, strawberry		high-pressure treatment' shall be displayed next to the name of the fruit preparations as such and in any product in which it is used	
Phosphated	Specified food categorv	Maximum levels	The designation	
	Baked bakery products	15 %	on the labelling of the foodstuffs	
	Pasta		it shall be	
	Breakfast cereals		'Phosphated maize starch'	
	Cereal bars			
Phosphatidylseri from fish phospholipids	nSpecified food category	Maximum levels of phosphatidylserin	The designation of the novel food 26 n the labelling	
prosprospras	Beverages based on yoghurt	50 mg/100 ml	of the foodstuffs containing it	
	Powders based on milk powders	3 500 mg/100 g (equivalent to 40 mg/100 ml ready to drink)	phosphatidylserine	3'
	Foods based on yoghurt	80 mg/100 g		
	Cereal bars	350 mg/100 g		
	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		
	Food supplements as defined	300 mg/day		

	in Directive 2002/46/EC			
Phosphatidylseri from soya phospholipids	nSpecified food category	Maximum levels of phosphatidylseri	The designation of the novel food ng n the labelling	
	Beverages based on yoghurt	50 mg/100 ml	of the foodstuffs containing it shall be 'Soya phosphatidylserine	
	Powders based on milk powder	3,5 g/100 g (equivalent to 40 mg/100 ml ready to drink)		e'
	Foods based on yoghurt	80 mg/100 g		
	Cereal bars	350 mg/100 g		
	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		
Phospholipid product containing	Specified food category	Maximum levels of phosphatidylseri	The designation of the novel food ¹⁶ n the labelling	The product is not intended to be marketed
Phospholipid product containing equal	Specified food category Breakfast cereals	Maximum levels of phosphatidylserin 80 mg/100 g	The designation of the novel food 16 n the labelling of the foodstuffs	The product is not intended to be marketed to pregnant or
Phospholipid product containing equal amounts of phosphatidylseri	Specified food category Breakfast cereals	Maximum levels of phosphatidylserin 80 mg/100 g 350 mg/100 g	The designation of the novel food u en the labelling of the foodstuffs containing shall be 'Soy	The product is not intended to be marketed to pregnant or breast-feeding women
Phospholipid product containing equal amounts of phosphatidylseri and phosphatidic caid	Specified food category Breakfast cereals Cereal bars Foods based on yogurt	Maximum levels of phosphatidylserin 80 mg/100 g 80 mg/100 g	The designation of the novel food u the labelling of the foodstuffs containing shall be 'Soy phosphatidylserine and phosphatidic oxid'	The product is not intended to be marketed to pregnant or breast-feeding women
Phospholipid product containing equal amounts of phosphatidylseri and phosphatidic acid	Specified food category Breakfast cereals Cereal bars Foods based on yogurt Soy-based yogurt-like products	Maximum levels of phosphatidylserin 80 mg/100 g 80 mg/100 g 80 mg/100 g	The designation of the novel food u n the labelling of the foodstuffs containing shall be 'Soy phosphatidylserine and phosphatidic acid'	The product is not intended to be marketed to pregnant or breast-feeding women
Phospholipid product containing equal amounts of phosphatidylseri and phosphatidic acid	Specified food category Breakfast cereals Cereal bars Foods based on yogurt Soy-based yogurt-like products Yogurt based- drinks	Maximum levels of phosphatidylseri 80 mg/100 g 80 mg/100 g 80 mg/100 g 50 mg/100 g	The designation of the novel food u n the labelling of the foodstuffs containing shall be 'Soy phosphatidylserine and phosphatidic acid'	The product is not intended to be marketed to pregnant or breast-feeding women
Phospholipid product containing equal amounts of phosphatidylseri and phosphatidic acid	Specified food category Breakfast cereals Cereal bars Foods based on yogurt Soy-based yogurt-like products Yogurt based- drinks Soy-based yogurt-like drinks	<i>Maximum</i> <i>levels of</i> <i>phosphatidylseri</i> 80 mg/100 g 350 mg/100 g 80 mg/100 g 50 mg/100 g 50 mg/100 g	The designation of the novel food u n the labelling of the foodstuffs containing shall be 'Soy phosphatidylserine and phosphatidic acid'	The product is not intended to be marketed to pregnant or breast-feeding women
Phospholipid product containing equal amounts of phosphatidylseri and phosphatidic acid	Specified food category Breakfast cereals Foods based on yogurt Soy-based yogurt-like products Yogurt based- drinks Soy-based yogurt-like drinks Powders based on milk powder	<i>Maximum</i> <i>levels of</i> <i>phosphatidylserii</i> 80 mg/100 g 350 mg/100 g 80 mg/100 g 50 mg/100 g 50 mg/100 g 3,5 g/100 g (equivalent to 40 mg/100 ml ready-to drink)	The designation of the novel food u n the labelling of the foodstuffs containing shall be 'Soy phosphatidylserine and phosphatidic acid'	The product is not intended to be marketed to pregnant or breast-feeding women

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	in Directive 2002/46/EC			
	Foods for special medical purposes as defined in Regulation (EU) No 609/2013	In compliance with Regulation (EU) No 609/2013		
Phospholipides from egg yolk	Specified food category	Maximum levels		
	Not specified			
Phytoglycogen	Specified food category	Maximum levels	The designation of the novel food	
	Processed foods	25 %	on the labelling of the foodstuffs containing it shall be 'Phytoglycogen'	
Phytosterols/ phytostanols	Specified food category	Maximum levels	In accordance with Annex III.5	
	Rice drinks	1 They	of Regulation	
	Rye bread with flour containing $\geq 50 \%$ rye (wholemeal rye flour, whole or cracked rye kernels and rye flakes) and $\leq 30 \%$ wheat; and with $\leq 4 \%$ added sugar but no fat added.	1. They shall be presente in such a manner that they can be easily divided into portions that	(EU) No 1169/2011 d	
	Salad dressings, mayonnaise and spicy sauces.	that contain either a maximu	m	
	Soya drink	of 3 g		
	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	(in case of 1 portion/ day) or a maximum of 1 g (in case of 3 portions/ day) of added	m	

kernel oil	nas ocen paruly or fully replaced by vegetable fat and/or protein. Products based on fermented milk such as yoghurt and cheese type products (fat content < 12 % 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 Spreadable fats as defined in Annex VII, Part VII and Appendix II, points B and C of Regulation (EU) No 1308/2013, and excluding cooking and frying fats and spreads based on butter or other animal fat. Food Supplements as defined in Directive 2002/46/EC Specified food	phytosterois/ phytostanols added to a container of beverages shall not exceed 3 g. Salad dressings, mayonnaise and spicy sauces shall be packed as single portions 3 g/day	
	For frying and as seasoning	In line with normal food use	

of vegetable oils

Plum

Potato proteins (coagulated) and hydrolysates thereof	Not specified		The designation of the novel food on the labelling of the foodstuffs containing it shall be 'Potato protein'	
Prolyl oligopeptidase (enzyme preparation)	Specified food category Food Supplements as defined	Maximum levels 120 PPU/day (2,7 g of enzyme preparation/day)	The designation of the novel food on the labelling of the foodstuffs containing it	
	in Directive 2002/46/EC for general adult population	(2 × 10 ⁶ PPI/ day) PPU – Prolyl Peptidase Units or Proline Protease Units PPI – Protease Picomole International	shall be 'Prolyl oligopeptidase'	
Protein extract from pig	Specified food category	Maximum levels		
kidneys	Food Supplements as defined in Directive 2002/46/EC	3 capsules/ day; equalizing 12,6 mg pig kidney extract a day Diamine oxidase (DAO) content: 0,9 mg/day (3 capsules with a content of DAO of 0,3 mg/ capsule)		
	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	
unsaponifiable matter	Food Supplements as defined in Directive 2002/46/EC	1,5 g per portion recommended for daily consumption	on the 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		1. The designat of the novel food on the labelling	ion

			2.	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
	Food Supplements as defined in Directive 2002/46/EC for adult population	150 mg/day		of the novel food on the labelling of the food

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	(capsule or tablet form)		2.	supplements containing it shall be ' <i>Trans</i> - resveratrol'. The labelling of food supplements containing trans- resveratrol shall bear a statement that people using medicines should only consume the product under medical supervision.
Trans- resveratrol (microbial source)	Specified food category Food supplements as defined in Directive 2002/46/EC	Maximum levels In line with normal use in food supplements of resveratrol extracted from Japanese knotweed (Fallopia japonica)	1.	The designation of the novel food on the labelling of the food supplements containing it shall be ' <i>Trans</i> - resveratrol'. The labelling of food supplements containing trans- resveratrol shall bear a

			statement that people using medicine should only consume the product under medical supervise	t es
Rooster comb extract	Specified food category	Maximum levels	The designation of the novel food	
	Milk-based drinks	40 mg/100 g or mg/100 ml	on the labelling of the foodstuffs	
	Milk based fermented drinks	80 mg/100 g or mg/100 ml	shall be 'Rooster comb extract' or	
	Yoghurt-type products	65 mg/100 g or mg/100 ml	'Cockerel comb extract'	
	Fromage frais	110 mg/100 g or mg/100 ml		
Sacha inchi oil from <i>Plukenetia</i>	Specified food	Maximum Iavals	The designation	
11 0 111 <i>1 именени</i>	cutegory	ieveis	of the novel lood	
volubilis	As for linseed oil	In line with normal food use of linseed oil	of the flover flood on the labelling of the foodstuffs containing it shall be 'Sacha inchi oil (Plukenetia volubilis)'	
volubilis	As for linseed oil Specified food category	In line with normal food use of linseed oil Maximum levels	of the flover flood on the labelling of the foodstuffs containing it shall be 'Sacha inchi oil (Plukenetia volubilis)' 1. The designat	ion

			 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. 	
<i>Schizochytrium sp</i> . oil rich in DHA and EPA	Specified food category	Maximum levels of DHA and EPA combined:	The designation of the novel food on the labelling of the foodstuffs	
	Food Supplements as defined in Directive 2002/46/EC for adult population excluding pregnant and lactating women	3 000 mg/day	containing it shall be 'DHA and EPA-rich oil from the microalgae <i>Schizochytrium</i> sp.'	
	Food Supplements as defined in Directive 2002/46/EC for pregnant and lactating women	450 mg/day		
	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	
Milk-based drinks and similar products intended for young children	200 mg/100 g	
Processed cereal based food and baby food for infants and young children as defined in Regulation (EU) No 609/2013		
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		
Bakery Products (Breads, Rolls and Sweet Biscuits)	200 mg/100 g	
Breakfast Cereals	500 mg/100 g	
Cooking Fats	360 mg/100 g	

	Dairy Analogues except drinks	600 mg/100 g for cheese; 200 mg/100 g for soy and imitation milk products (excluding drinks)		
	Dairy Products except milk- based drinks	600 mg/100 g for cheese; 200 mg/100 g for milk products (including milk, fromage frais and yoghurt products; excluding drinks)		
	Non-alcoholic Beverages (including dairy analogue and milk-based drinks)	80 mg/100 g		
	Cereal/Nutrition Bars	500 mg/100 g		
	Spreadable Fats and Dressings	600 mg/100 g		
<i>Schizochytrium</i> sp. (ATCC	Specified food category	Maximum levels of DHA	The designation of the novel food	
PTA-9695) oil	Dairy products except milk- based drinks	200 mg/100 g or for cheese products 600 mg/100 g	on the labelling of the foodstuffs containing it shall be 'Oil from the microalgae <i>Schizochytrium</i> sp. (ATCC PTA-9695)'	
	Dairy analogues except drinks	200 mg/100 g or for analogues to cheese products 600 mg/100 g		
	Spreadable fats and dressings	600 mg/100 g		
	Breakfast cereals	500 mg/100 g		
	Food Supplements as defined in Directive	250 mg DHA/ day for general population		
	2002/46/EC	450 mg DHA/ day for pregnant		

	and lactating women
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
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	
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
Bakery products (breads,rolls, and, sweet biscuits)	200 mg/100 g
Cereal bars	500 mg/100 g
Cooking fats	360 mg/100 g

	Non-alcoholic beverages (including dairy analogue and milk-based drinks)	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		
<i>Schizochytrium</i> sp. oil	Specified food category	Maximum levels of DHA	The designation of the novel food	
sp. on	Dairy products except milk- based drinks	200 mg/100 g or for cheese products 600 mg/100 g	on the labelling of the foodstuffs containing it shall be 'Oil from the microalgae <i>Schizochytrium</i> sp.'	
	Dairy analogues except drinks	200 mg/100 g or for analogues to cheese products 600 mg/100 g		
	Spreadable fats and dressings	600 mg/100 g		
	Breakfast cereals	500 mg/100 g		
	Food Supplements as defined in Directive 2002/46/EC	250 mg DHA/ day for general population		
		450 mg DHA/ day for pregnant and lactating women		
	Total diet replacement for weight control as defined in Regulation (EU) No 609/2013 and meal	250 mg/meal		

replacements for weight control		
Milk-based drinks and similar products intended for young children	200 mg/100 g	
Processed cereal-based foods and baby foods for infants and young children as defined in Regulation (EU) No 609/2013		
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		
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	
Bakery products (breads, rolls and sweet biscuits)	200 mg/100 g	
Cereal bars	500 mg/100 g	
Cooking fats	360 mg/100 g	

	Non-alcoholic beverages (including dairy analogue and milk-based drinks)	80 mg/100 ml		
<i>Schizochytrium</i> sp. (T18) oil	Specified food category	Maximum levels of DHA	The designation of the novel food	
- F . ()	Dairy products except milk- based drinks	200 mg/100 g or for cheese products 600 mg/100 g	on the labelling of the foodstuffs containing it shall be 'Oil from the microalgae <i>Schizochytrium</i> sp.'	
	Dairy analogues except drinks	200 mg/100 g or for analogues to cheese products 600 mg/100 g		
	Spreadable fats and dressings	600 mg/100 g		
	Breakfast cereals	500 mg/100 g		
	Food Supplements as defined in Directive 2002/46/EC	250 mg DHA/ day for general population		
		450 mg DHA/ day for pregnant and lactating women		
	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		
	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	
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
Bakery products (breads, rolls and, sweet biscuits)	200 mg/100 g
Cereal bars	500 mg/100 g
Cooking fats	360 mg/100 g
Non-alcoholic beverages (including dairy analogue and milk-based drinks)	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

Fermented	Specified food	Maximum	1. The
soybean extract	category	levels	designation
	Food	100 mg/day	of the
	Supplements		novel
	as defined		food
	in Directive		on the
	2002/46/EC		labelling
	(capsules, tablets		of the
	or powder form)		foodstuffs
	intended for the		containing
	adult population.		it shall
	excluding		be
	pregnant and		'Fermented
	lactating women		soybean
	6		extract'.
			2. 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.
Spermidine-	Specified food	Maximum	The designation
rich wheat	category	levels	of the novel food
germ extract	Food	Equivalent of	on the labelling
(Triticum	Supplements	max 6 mg/day	of the food
aestivum)	as defined	spermidine	supplements
······································	in Directive	Sperimente	containing
	2002/46/FC		it shall be
	intended for the		'spermidine-
	adult nonulation		rich wheat germ
	excluding		extract'
	pregnant and		
	lactating women		

Sucromalt	Specified food	Maximum levels	1. The	ion in the second se
	Not specified	168613	designat	ion
	Not specified		novel	
			food	
			on the	
			labelling	
			foodstuf	fs
			containi	ng
			it shall	
			be	
			'Sucrom	alt'.
			2. The	
			designat	ion
			of the	
			novel	
			1000	
			labelling)
			shall be	
			accompa	anied
			by	
			indicatio	n
			that the	
			product	
			IS a	
			of	
			glucose	
			and	
			fructose	
Sugar cane fibre	Specified food category	Maximum levels		
	Bread	8 %		
	Bakery goods	5 %		
	Meat and muscle products	3 %		
	Seasonings and spices	3 %		
	Grated cheeses	2 %		
	Special diet foods	5 %		
	Sauces	2 %		
	Beverages	5 %		
Sunflower oil	Specified food	Maximum	The designation	
extract	category	levels	of the novel food	
			on the labelling	

	Food Supplements as defined in Directive 2002/46/EC	1,1 g/day	of the foodstuffs containing it shall be 'Sunflower oil extract'	
Dried Tetraselmis chuii microalgae	Specified food category Sauces Special salts Condiment Food Supplements as defined in Directive 2002/46/EC	Maximum levels 20 % or 250mg/ day 1 % 250 mg/day 250 mg/day	The designation of the novel food on the labelling of the foodstuffs containing it shall be 'Dried microalgae <i>Tetraselmis</i> <i>chuii</i> ' or 'Dried microalgae <i>T.</i> <i>chuii</i> ' Food supplements containing dried microalgae <i>Tetraselmis</i> <i>chuii</i> shall bear the following statement: 'Contains negligible amounts of iodine'	
<i>Therapon barcoo</i> /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			
D-Tagatose	Specified food category Not specified	<i>Maximum</i> <i>levels</i>	 The designat of the novel food on the labelling of the foodstuf containi it shall be 'D-Tagatose The labelling of any product 	fs ng '.

			where the level of D- Tagatose exceeds 15 g per serving and all beverage containin greater than 1 % D- Tagatose (as consume shall bear a statemer	es ng ed) et
			consump may produce laxative effects'.	otion
Taxifolin-rich extract	Specified food category 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	Maximum levels 100 mg/day	The designation of the novel food on the labelling of the foodstuffs containing it shall be 'taxifolin-rich extract'.	
Trehalose	Specified food category Not specified	Maximum levels	1. The designat of the novel food on the labelling of the	ion

			2.	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. 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 (<i>Agaricus</i>	Specified food category	Maximum levels of vitamin D ₂		
bisporus)	Mushrooms (<i>Agaricus</i> <i>bisporus</i>)	10 μ g of vitamin $D_2/100$ g fresh weight	1.	The designation on the label of the novel food as such or of the foodstuffs containing
			it shall be 'UV- treated mushrooms (<i>Agaricus</i> <i>bisporus</i>)'. 2. The designation on the label of the novel food as such or 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 D ₂ levels'.	
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UV-treated baker's yeast (<i>Saccharomyces</i>	Specified food category	Maximum levels of vitamin D ₂	The designation of the novel food on the labelling	
cerevisiae)	Yeast-leavened breads and rolls	5 μ g of vitamin $D_2/100$ g	of the foodstuffs containing it shall be 'Vitamin	
	Yeast-leavened fine bakery wares	5 μg of vitamin D ₂ /100 g	D yeast' or 'Vitamin D ₂ yeast'	
	Food Supplements	5 μ g of vitamin D_2/day		

	as defined in Directive 2002/46/EC			
UV-treated bread	Specified food category	Maximum levels of vitamin D ₂	The designation on the label of the novel food shall be accompanied by 'contains vitamin D produced by UV-treatment'	
	Yeast leavened bread and rolls (without toppings)	3 μg vitamin D ₂ /100 g		
UV-treated milk	Specified food category	Maximum levels of vitamin D ₃	1. The designation on the	ion
	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	label of the novel food shall be 'UV- treated'.	
	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	2. Where UV- treated milk contains an amount of vitamin D that is consider significa in accordar with Point 2 of Part A of Annex XIII to Regulati (EU) No 1169/201 of the Europea Parliame and of the	ed nt ace on 11 n nt

Cha	nges to legislation: There a	re currently no kno	wn outstanding effects j	or the
Commiss	ion Implementing Regulatio	n (EU) 2018/1023.	(See end of Document)	for details)

Vitamin K ₂ (menaquinone)	To be used in com Directive 2002/46 (EU) No 609/2013 Regulation (EC) N	pliance with /EC, Regulation 3 and/or Jo 1925/2006	Council, the designat for the labelling shall be accompa by 'contains vitamin D produced by UV- treatmen or 'milk containin vitamin D resulting from UV- treatmen The designation of the novel food on the labelling of the foodstuffs containing it shall be 'Menaquinone' or 'Vitamin K ₂ '	ion mied s t' t'.
Wheat bran	Specified food	Maximum Ievels	The designation	The 'Wheat Bran
extract	Beer and substitutes	0,4 g/100 g	on the labelling of the foodstuffs	be introduced onto the market
	Ready to eat cereals	9 g/100 g	shall be 'Wheat bran extract'	as a food supplement or food supplement
	Dairy products	2,4 g/100 g		ingredient. Nor may it be
	Fruit and vegetable juices	0,6 g/100 g		added to infant formula.
	Soft drinks	0,6 g/100 g		
	Meat preparations	2 g/100 g		
Yeast beta- glucans	Specified food category	Maximum levels of pure beta-glucans from yeast	The designation of the novel food on the labelling of the foodstuffs containing it	

	(Saccharomyces cervisiae)	shall be 'Yeast (Saccharomyces
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	<i>cerevisiae</i>) beta- glucans'
Total diet replacement for weight control as defined in Regulation (EU) No 609/2013	1,275 g/day	
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	
Beverages based on fruit and/ or vegetable juices including concentrate and dehydrated juices	1,3 g/kg	
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)	
	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		
	Soups and soup mixes	0,9 g/kg (ready to eat)		
		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	
	Food Supplements as defined in Directive 2002/46/EC	2 mg/day	on the labelling of the foodstuffs containing it shall be 'synthetic zeaxanthin'	
Zinc L-pidolate	Specified food category	Maximum levels	The designation of the novel food	
	Foods covered by Regulation (EU) No 609/2013	3 g/day	on the labelling of the foodstuffs containing it shall be 'Zinc L- pidolate'	

- a Regulation (EU) No 609/2013 of the European Parliament and of the Council of 12 June 2013 on food intended for infants and young children, food for special medical purposes, and total diet replacement for weight control and repealing Council Directive 92/52/EEC, Commission Directives 96/8/EC, 1999/21/EC, 2006/125/EC and 2006/141/EC, Directive 2009/39/EC of the European Parliament and of the Council and Commission Regulations (EC) No 41/2009 and (EC) No 953/2009 (OJ L 181, 29.6.2013, p. 35).
- **b** Commission Implementing Regulation (EU) No 828/2014 of 30 July 2014 on the requirements for the provision of information to consumers on the absence or reduced presence of gluten in food (OJ L 228, 31.7.2014, p. 5).
- c Directive 2002/46/EC of the European Parliament and of the Council of 10 June 2002 on the approximation of the laws of the Member States relating to food supplements (OJ L 183, 12.7.2002, p. 51).
- **d** Regulation (EC) No 1925/2006 of the European Parliament and of the Council of 20 December 2006 on the addition of vitamins and minerals and of certain other substances to foods (OJ L 404, 30.12.2006, p. 26).
- e Council Directive 2001/113/EC of 20 December 2001 relating to fruit jams, jellies and marmalades and sweetened chestnut purée intended for human consumption (OJ L 10, 12.1.2002, p. 67).
- f 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 Regulation (EEC) No 922/72, (EEC) No 234/79, (EC) No 1037/2001 and (EC) 1234/2007 (OJ L 347, 20.12.2013, p. 671).

TABLE 2: SPECIFICATIONS

Novel Food N-Acetyl-D- Description: neuraminic acid N-Acetyl-D-neuraminic acid is a white to off-white crystalline powder Definition: Chemical name:
N-Acetyl-D- neuraminic acid Description: N-Acetyl-D-neuraminic acid is a white to off-white crystalline powder Definition: Chemical name:
neuraminic acid <i>N</i> -Acetyl-D-neuraminic acid is a white to off-white crystalline powder Definition: Chemical name:
Definition: Chemical name:
Chemical name:
H IDA C
IUPAC names:
<i>N</i> -Acetyl-D-neuraminic acid (dihydrate)
5-Acetamido-3,5-dideoxy-D-glycero-D-galacto-non-2-ulopyranosonic
acid (dihydrate)
Synonyms:
Sialic acid (dihydrate)
Chemical formula:
$C_{11}H_{19}NO_9$ (acid)
$C_{11}H_{23}NO_{11}$ ($C_{11}H_{19}NO_9 * 2H_2O$) (dihydrate)
Molecular mass:
309,3 Da (acid)
345,3 (309,3+36,0) (dihydrate)
CAS No.:
131-48-6 (free acid)
50795-27-2 (dihydrate)
Specifications:
Description: white to off-white crystalline powder
pH (20 °C, 5 % solution): $1,7 - 2,5$
N-Acetyl-D-neuraminic acid (dihydrate): $> 9/,0\%$
water (dihydrate calculates to 10,4 %): $\leq 12,5$ % (W/W)
Asn, supplated: $< 0.2 \%$ (W/W) A actic acid (as free acid and/or acidium acctate): $< 0.5 \%$ (w/w)
Acetic acid (as free acid and/or sodium acetate): $< 0.5 \%$ (W/W)
$\frac{1}{1} \frac{1}{2} \frac{1}$
1001. < 20.0 mg/kg
Residual proteins: $< 0.01 \%$ (w/w)
Residual solvents:
2-Pronanol: $< 0.1 \% (w/w)$
Acetone: $< 0.1 \%$ (w/w)
Ethyl acetate: $< 0.1 \%$ (w/w)
Microbiological criteria:
Salmonella: Absence in 25 g
Aerobic mesophilic total count:< 500 CFU/g
Enterobacteriaceae: Absence in 10 g
Cronobacter (Enterobacter) sakazakii: Absence in 10 g
Listeria monocytogenes: Absence in 25 g
Bacillus cereus: < 50 CFU/g
Yeasts: < 10 CFU/g
Moulds: < 10 CFU/g

a Commission Regulation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in Annexes II and III to Regulation (EC) No 1333/2008 of the European Parliament and of the Council (OJ L 83, 22.3.2012, p. 1).

b Commission Implementing Regulation (EU) 2015/175 of 5 February 2015 laying down special conditions applicable to the import of guar gum originating in or consigned from India due to contamination risks by pentachlorophenol and dioxins (OJ L 30, 6.2.2015, p. 10).

	Residual endotoxins: < 10 EU/mg CFU: Colony Forming Units; EU: Endotoxin Units.
<i>Adansonia digitata</i> (Baobab) 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
<i>Ajuga reptans</i> extract from cell cultures	Description/Definition: Hydroalcoholic extract from <i>Ajuga reptans</i> L. tissue cultures which is substantially equivalent to extracts from flowering aerial parts of <i>Ajuga</i> <i>reptans</i> obtained by traditional cultures.
L-Alanyl-L- Glutamine	Description/Definition: L-Alanyl-L-Glutamine is produced by fermentation with a genetically modified strain of <i>Escherichia coli</i> . During the fermentation process, the ingredient is secreted into the growth medium from which it is subsequently separated and purified to a concentration of > 98 %. Appearance: White crystalline powder Purity: > 98 % Infrared spectroscopy: Conformity with ref. standard Appearance of solution: Colourless and clear Assay (dry basis): 98-102 % Related substances (each): $\leq 0,2$ % Residue on ignition: $\leq 0,1$ % Loss on drying: $\leq 0,5$ % Optical rotation: $+9,0 - +11,0^{\circ}$ pH (1 %; H ₂ O): 5,0-6,0 Ammonium (NH ₄): $\leq 0,020$ % Chloride (Cl): $\leq 0,020$ % Sulphate (SO ₄): $\leq 0,020$ % Microbiological criteria: <i>Escherichia coli</i> : Absence/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
a Commission Regul Annexes II and III p. 1).	ation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in to Regulation (EC) No 1333/2008 of the European Parliament and of the Council (OJ L 83, 22.3.2012,
b Commission Imple to the import of gua dioxins (OJ L 30, 6	menting Regulation (EU) 2015/175 of 5 February 2015 laying down special conditions applicable ar gum originating in or consigned from India due to contamination risks by pentachlorophenol and .2.2015, p. 10).

	Peroxide value (PV): $\leq 5,0$ meq/kg oil Moisture and volatiles: $\leq 0,05$ % Unsaponifiables: $\leq 4,5$ % Trans-fatty acids: $\leq 1,0$ % DHA content: ≥ 32 %
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): < 1,0 % Myristic acid (C14:0): < 1,0 % Palmitic acid (C16:0): < 2,0 % Palmitoleic acid (C16:1): < 1,0 % Stearic acid (C18:0): 45-58 % Oleic acid (C18:0): 45-58 % Oleic acid (C18:1): 40-51 % Linoleic acid (C18:2): < 1,0 % γ -Linolenic acid (C18:3): < 1,0 % Free fatty acids: max 0,1 % Characteristics: Trans fatty acids: max 0,5 % Peroxide value (PV): max 0,8 meq/kg Iodine value: < 46 g/100 g Unsaponifiable matter: max 1,0 % Saponification value: 185-198 mg KOH/g
<i>Aloe macroclada</i> Baker leaf extract	Description/Definition: Powdered gel extract derived from the leaves of <i>Aloe macroclada</i> Baker which is substantially equivalent to the same gel derived from <i>Aloe vera</i> (L.) Burm.f. leaves. Ash: 25 % Dietary fibres: 28,6 % Fat: 2,7 % Moisture: 4,7 % Polysaccharides: 9,5 % Protein: 1,63 % Glucose: 8,9 %
Antarctic Krill oil from <i>Euphausia</i> <i>superba</i>	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: $\leq 230 \text{ mg KOH/g}$ Peroxide value (PV): $\leq 3 \text{ meq O }_2/\text{kg oil}$
a Commission Regul Annexes II and III p. 1).	ation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in to Regulation (EC) No 1333/2008 of the European Parliament and of the Council (OJ L 83, 22.3.2012,
b Commission Imple to the import of gua dioxins (OJ L 30, 6	menting Regulation (EU) 2015/175 of 5 February 2015 laying down special conditions applicable ar gum originating in or consigned from India due to contamination risks by pentachlorophenol and .2.2015, p. 10).

Changes to legislation: There are	currently no known outstanding effects for the
Commission Implementing Regulation	(EU) 2018/1023. (See end of Document for details)

	Oxidative stability: All food products containing Antarctic Krill oil from <i>Euphausia superba</i> should demonstrate oxidative stability by appropriate and recognised national/international test methodology (e.g. AOAC). Moisture and volatiles: $\leq 3 \%$ or 0,6 expressed as water activity at 25 °C Phospholipids: 35-50 % Trans-fatty acids: $\leq 1 \%$ EPA (eicosapentaenoic acid): $\geq 9 \%$ DHA (docosahexaenoic acid): $\geq 5 \%$
Antarctic Krill oil rich in phospholipids from <i>Euphausia</i> <i>superba</i>	Description/Definition: Oil rich in phospholipids is produced from Antarctic krill (<i>Euphausia superba</i>) by repeated solvent washings with an approved solvent (under Directive 2009/32/EC) to increase phospholipid content of the oil. Solvents are removed from the final product by evaporation. Saponification value: $\leq 230 \text{ mg KOH/g}$ Peroxide value (PV): $\leq 3 \text{ meq O}_2/\text{kg oil}$ Moisture and volatiles: $\leq 3 \%$ or 0,6 expressed as water activity at 25 °C Phospholipids: $\geq 60 \%$ Trans-fatty acids: $\leq 1 \%$ EPA (eicosapentaenoic acid): $\geq 9 \%$ DHA (docosahexaenoic acid): $\geq 5 \%$
Arachidonic acid-rich oil from the fungus <i>Mortierella</i> <i>alpina</i>	Description/Definition: The clear yellow arachidonic acid-rich oil is obtained by fermentation of the non-genetically modified strains IS-4, I49-N18, FJRK-MA01 and CBS 210.32 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: $\leq 0,45$ % of the total fatty acid content Trans fatty acids: $\leq 0,5$ % of the total fatty acid content Unsaponifiable matter: $\leq 1,5$ % Peroxide value (PV): ≤ 5 meq/kg Anisidin value: ≤ 20 Acid value: $\leq 1,0$ KOH/g Moisture: $\leq 0,5$ %
Argan oil from <i>Argania spinosa</i>	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: 100-500 mg/100 g Total tocopherols: 16-90 mg/100 g Oleic acidity: 0,2-1,5 %
a Commission Regul Annexes II and III p. 1).	ation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in to Regulation (EC) No 1333/2008 of the European Parliament and of the Council (OJ L 83, 22.3.2012,
b Commission Imple	menting Regulation (EU) 2015/175 of 5 February 2015 laying down special conditions applicable

b Commission Implementing Regulation (EU) 2015/175 of 5 February 2015 laying down special conditions applicable to the import of guar gum originating in or consigned from India due to contamination risks by pentachlorophenol and dioxins (OJ L 30, 6.2.2015, p. 10).

Peroxide value (PV): < 10 meq O₂/kg

Astaxanthin-	Description/Definition:
rich oleoresin	Astaxanthin is a carotenoid produced by <i>Haematococcus pluvialis</i> algae.
from	Production methods for the growth of the algae are variable; using either
Haematococcus	closed systems exposed to sunlight or strictly controlled illuminated
<i>pluvialis</i> algae	light; alternatively open ponds may be used. The algal cells are harvested
	and dried; the oleoresin is extracted using either super critical CO ₂ or a
	solvent (ethyl acetate). The Astaxanthin is diluted and standardized to
	2,5 %, 5,0 %, 7,0 %, 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 %
	$F_{1}bre: < 1,0\%$
	Ash: 0,0-4,2 %
	Specification of Carotenoids W/W%
	10tal Astaxantnins: $2,9-11,1\%$
	9-cis-astaxantnin: $0.3-17,3\%$
	13-C15-astaxantinini. 0,2-7,0.70 A staxanthin monoesters: 70.8.01.5.%
	A staxanthin diesters: 0.16-19.0 %
	B-Carotene: 0.01-0.3 %
	Lutein: 0-1.8 %
	Canthaxanthin: 0-1.30 %
	Microbiological criteria:
	Total aerobic bacteria: < 3 000 CFU/g
	Yeast and Moulds: < 100 CFU/g
	Coliforms: < 10 CFU/g
	<i>E. coli</i> : Negative
	Salmonella: Negative
	Staphylococcus: Negative
Basil seeds	Description/Definition:
(Ocimum	Basil (Ocimum basilicum L.) belongs to the family 'Lamiaceae' within
basilicum)	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 filtering (optical,
	mechanical). Production process of fruit juice and fruit/vegetable blend
	beverages containing Basil seeds (Ocimum basilicum L.) includes seed
	pre-hydration and pasteurisation steps. Microbiological controls and
	monitoring systems are in place.
	Dry Matter: 94,1 %
	Protein: 20,7 %
	Fal: 24,4 %
	Dietory Fibro: 40.5% (Method: AOAC 058.20)
- Compilia P	Dictary FIDE. 40,5 % (Wethou. AUAU 938,29)
a Commission Regul Annexes II and III	ation (EU) No 251/2012 of 9 March 2012 laying down specifications for food additives listed in to Regulation (EC) No 1333/2008 of the European Parliament and of the Council (OJ L 83, 22.3.2012.
p. 1).	
b Commission Imple	menting Regulation (EU) 2015/175 of 5 February 2015 laying down special conditions applicable
to the import of gu dioxins (OJ L 30, 6	ar gum originating in or consigned from India due to contamination risks by pentachlorophenol and 5.2.2015, p. 10).

	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 (<i>Glycine max (L.) Merr.</i>) fermented with <i>Aspergillus oryzae</i> . The extract contains an α -glucosidase inhibitor.Characteristics: Fat: $\leq 1,0 \%$ Protein: $\geq 55 \%$ Water: $\leq 7,0 \%$
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: < 2,0 mg/kg Iron: < 350 mg/kg Protein: > 93 % of which bovine lactoferrin: > 95 % of which other proteins: < 5,0 % 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</i> <i>arvensis</i> (L.) I.M.Johnst Alpha-linolenic acid: ≥ 35 % w/w of total fatty acids Stearidonic acid: ≥ 15 % w/w of total fatty acids Linoleic acid: $\geq 8,0$ % w/w of total fatty acids Trans fatty acids: $\leq 2,0$ % w/w of total fatty acids Acid value: $\leq 0,6$ mg KOH/g Peroxide value (PV): $\leq 5,0$ meq O ₂ /kg Unsaponifiable content: $\leq 2,0$ % Protein content (total nitrogen): ≤ 10 µg/ml Pyrrolizidine alkaloids: Not detectable with a detection limit of 4,0 µg/kg
a Commission Regul Annexes II and III p. 1).	ation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in to Regulation (EC) No 1333/2008 of the European Parliament and of the Council (OJ L 83, 22.3.2012,
b Commission Imple to the import of gua dioxins (OJ L 30, 6	menting Regulation (EU) 2015/175 of 5 February 2015 laying down special conditions applicable ar gum originating in or consigned from India due to contamination risks by pentachlorophenol and .2.2015, p. 10).

Calanus	Description/Definition:		
<i>finmarchicus</i> oil	The novel food is ruby coloured, slightly viscous oil with a slight		
-	shellfish odour extracted from the crustacean (marine zooplankton)		
	Calanus finmarchicus. The ingredient consists primarily of wax esters		
	(> 85 %) with minor amounts of triglycerides and other neutral lipids.		
	Specifications:		
	Water: < 1,0 %		
	Wax esters: > 85 %		
	Total fatty acids: > 46 % Eicosapentaenoic acid (EPA): > 3,0 %		
	Docosahexaenoic acid (DHA): $> 4,0 \%$		
	Total fatty alcohols: > 28 %		
	C20:1 n-9 fatty alcohol: $> 9,0 \%$		
	C22:1 n-11 fatty alcohol: > 12 %		
	Trans fatty acids: < 1,0 %		
	Astaxanthinesters: < 0,1 %		
	Peroxide value (PV): $< 3,0$ meq. O ₂ /kg		
Cnewing	Description/Definition:		
gum base	The novel food ingredient is a synthetic polymer (Patent		
(monometnoxypo	Example fre O2000010179). It consists of branched polymers of		
giycol)	monometnoxypolyetnylene glycol (MPEC) gratted onto polyisoprene-		
	grant-materic annydride (PIP-g-MA), and unreacted MPEG (less than		
	35 % by Weight).		
	while to on-while colour. $CAS N_0 + 1246090.52.4$		
	CAS NO.: 1240080-33-4 Characteristics		
	Unaracteristics:		
	Molsture: < 5,0 %		
	Aluminium: $< 5.0 \text{ mg/kg}$		
	Litinium: < 0.5 mg/kg		
	Nickel. $< 0.5 \text{ mg/kg}$		
	Residual annyunde. $< 1.5 \ \mu mol/g$		
	For your spectrum (1,4)		
	Isopiene. $< 0.05 \text{ mg/kg}$		
	European palaia anhydrida: $< 0.1.9$		
	The matrix analytic $> 0,1$ % Total alignmeros (loss than 1.000 Dalton): $< 50 \text{ mg/kg}$		
	Total offgometes (less than 1 000 Datton). \leq 50 mg/kg		
	Disthylene glycol: $< 30 \text{ mg/kg}$		
	Monoethylene glycol, $< 30 \text{ mg/kg}$		
	Diethylene glycol methyl ether: $< 1.0 \text{ mg/kg}$		
	Triethylene glycol methyl ether: $< 7.0 \text{ mg/kg}$		
	1 4-Diovane: $< 2.0 \text{ mg/kg}$		
	Formaldehyde: $< 10 \text{ mg/kg}$		
Chewing	Description/Definition:		
gum base	Methyl vinyl ether-maleic anhydride copolymer is an anhydrous		
(Methyl vinyl	copolymer of methyl vinyl ether and maleic anhydride.		
a Commission Regula Annexes II and III t p. 1).	ation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in o Regulation (EC) No 1333/2008 of the European Parliament and of the Council (OJ L 83, 22.3.2012,		
b Commission Implet to the import of gua dioxins (OJ L 30, 6	nenting Regulation (EU) 2015/175 of 5 February 2015 laying down special conditions applicable r gum originating in or consigned from India due to contamination risks by pentachlorophenol and .2.2015, p. 10).		

ether-maleic anhydride	Free-flowing, white to white-off powder CAS No: 9011-16-9
copolymer)	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: $\leq 500 \text{ ppm}$
	Methanol: $\leq 500 \text{ ppm}$
	Dilauroyl peroxide: ≤ 15 ppm
	Total heavy metals: ≤ 10 ppm
	Microbiological criteria:
	Total aerobic plate count: \leq 500 CFU/g
	Mould/yeast: \leq 500 CFU/g
	Escherichia coli: Negative to test
	Salmonella: Negative to test
	Staphylococcus aureus: Negative to test
	Pseudomonas aeruginosa: Negative to test
Chia oil from	Description/Definition:
Salvia hispanica	Chia oil is produced from Chia (<i>Salvia hispanica</i> L) seeds (99.9 % pure)
Sanna mspannea	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 $< 2.0 \%$
	Peroxide value (PV): $< 10 \text{ meg/kg}$
	Insoluble impurities: $< 0.05 \%$
	Alpha linolenic acid: $\geq 60\%$
	Linoleic acid: 15-20 %
Chia seeds	Description/Definition:
(Salvia	Chia (Salvia hispanica L.) is a summer annual herbaceous plant
hispanica)	belonging to the <i>Labiatae</i> family. Post-narvest the seeds are cleaned
	mechanically. Flowers, leaves and other parts of the plant are removed.
	Dry matter. 90-97 %
	F10tenn. 13-20 %
	Fal. 10-39 70 Carbohydroto (*): 19 12 0/
	Carbonyulate (*). 18-45 70 Crude Fibra(**): 18-43 9/
	Ash: 3.7.%
	7 (5)1. 5-7 70
	(*) Carbohydrates include the fibre value
	(**) Crude fibre is the part of fibre made mainly of indigestible
	cellulose, pentosans and lignin
a Commission Regul	ation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in
Annexes II and III	to Regulation (EC) No 1333/2008 of the European Parliament and of the Council (OJ L 83, 22.3.2012,
P. 1).	
 Commission Imple to the import of gua dioxins (OJ L 30, 6 	menting Regulation (EU) 2015/1/5 of 5 February 2015 laying down special conditions applicable ar gum originating in or consigned from India due to contamination risks by pentachlorophenol and .2.2015, p. 10).

	Production process: Production process of fruit juices and fruit juice blends beverages, containing Chia seeds, includes seed pre-hydration and pasteurisation steps. Microbiological controls and monitoring systems are in place.
Chitin- glucan from <i>Aspergillus</i> <i>niger</i>	Description/Definition: Chitin-glucan is obtained from the mycelium of Aspergillus niger; 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: ≤ 10 % Chitin-glucan: ≥ 90 % Ratio of chitin to glucan: 30:70 to 60:40 Ash: ≤ 3,0 % Lipids: ≤ 1,0 % Proteins: ≤ 6,0 %
Chitin-glucan complex from Fomes fomentarius	Description/Definition: Chitin-glucan complex is obtained from the cell walls of the fruit bodies of the fungus <i>Fomes fomentarius</i> . 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 Purity: Moisture: ≤ 15 % Ash: ≤ 3,0 % Chitin-glucan: ≥ 90 % Ratio of chitin to glucan: 70:20 Total carbohydrates, excluding glucans: ≤ 0,1 % Proteins: ≤ 2,0 % Lipids: ≤ 1,0 % Melanins: ≤ 8,3 % Additives: None pH: 6,7-7,5 Heavy metals: Lead (ppm): ≤ 1,00
	Cadmium (ppm): $\leq 1,00$
a Commission Regul	ation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in

Annexes II and III to Regulation (EC) No 1333/2008 of the European Parliament and of the Council (OJ L 83, 22.3.2012, p. 1).

b Commission Implementing Regulation (EU) 2015/175 of 5 February 2015 laying down special conditions applicable to the import of guar gum originating in or consigned from India due to contamination risks by pentachlorophenol and dioxins (OJ L 30, 6.2.2015, p. 10).

	Mercury (ppm): $\le 0,03$ Arsenic (ppm): $\le 0,20$ Microbiological criteria: Total mesophilic bacteria: $\le 10^3/g$ Yeast and moulds: $\le 10^3/g$ Coliforms at 30 °C: $\le 10^3/g$ <i>E. coli</i> : $\le 10/g$ <i>Salmonella</i> and other pathogenic bacteria: Absence/25 g
Chitosan extract from fungi (<i>Agaricus</i> <i>bisporus</i> ; <i>Aspergillus</i> <i>niger</i>)	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 formula: $(C_6H_{11}NO_4)_n$ Appearance: fine free-flowing powder Aspect: Off –white to slightly brownish Odour: Odourless Purity: Chitosan content (% w/w dry weight): ≤ 15 Loss on drying (% w/w dry weight): ≤ 15 Loss on drying (% w/w dry weight): ≤ 15 Degree of acetylation (in % mol/wet weight): 0-30 Viscosity (1 % in 1 % acetic acid) (mPa.s): 1-14 for chitosan from Aspergillus niger; 12-25 for chitin from <i>Agaricus bisporus</i> Ash (% w/w dry weight): $\leq 2,0$ Particle size: > 100 nm Tapped density (g/cm ³): 0,7-1,0 Fat binding capacity 800 × (w/w wet weight): pass Heavy metals: Mercury (ppm): $\leq 0,1$ Lead (ppm): $\leq 1,0$ Cadmium (ppm): $\leq 1,0$ Cadmium (ppm): $\leq 0,5$ Microbiological criteria: Aerobic count (CFU/g): $\leq 10^3$ Yeast and mould count (CFU/g): $\leq 10^3$ Escherichia coli (CFU/g): ≤ 10

a Commission Regulation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in Annexes II and III to Regulation (EC) No 1333/2008 of the European Parliament and of the Council (OJ L 83, 22.3.2012, p. 1).

b Commission Implementing Regulation (EU) 2015/175 of 5 February 2015 laying down special conditions applicable to the import of guar gum originating in or consigned from India due to contamination risks by pentachlorophenol and dioxins (OJ L 30, 6.2.2015, p. 10).

	Salmonella: Absence/25g Listeria monocytogenes: Absence/25g
Chondroitin sulphate	Description/Definition: Chondroitin sulphate (sodium salt) is a biosynthetic product. It is obtained by chemical sulphation of chondroitin derived from fermentation by the bacterium <i>Escherichia coli</i> O5:K4:H4 strain U1-41 (ATCC 23502). Chondroitin sulphate (sodium salt) (% dry basis): 95-105 MWw (weight avg.) (kDa): 5-12 MWn (number avg.) (kDa): 4-11 Dispersity ($w_h/w_{0,05}$): $\leq 0,7$ Sulphation pattern (Δ Di-6S) (%): ≤ 85 Loss on drying (%) (105 °C to constant weight): $\leq 10,0$ Residue on ignition (% dry basis): 20-30 Protein (% dry basis): $\leq 0,5$ Endotoxins (EU/mg): ≤ 100 Total organic impurities (mg/kg): ≤ 50
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: $Cr(C_6H_4NO_2)_3$ Chemical characteristics: Chromium Picolinate: $\geq 95 \%$ Chromium (III): 12-13 % Chromium (VI): not detected Water: $\leq 4,0 \%$
<i>Cistus incanus</i> L. Pandalis herb	Description: <i>Cistus incanus</i> L. Pandalis herb; species belonging to the <i>Cistaceae</i> family and native to the Mediterranean region, Chalkidiki Peninsula. Composition: Moisture: 9–10 g/100 g herbs Protein: 6,1 g/100 g herbs Fat: 1,6 g/100 g herbs Carbohydrates: 50,1 g/100 g herbs Fiber: 27,1 g/100 g herbs Minerals: 4,4 g/100 g herbs Sodium: 0,18 g Potassium: 0,75 g Magnesium: 0,24 g Calcium: 1,0 g Iron: 65 mg Vitamin B ₁ : 3,0 µg
a Commission Regul Annexes II and III	ation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in to Regulation (EC) No 1333/2008 of the European Parliament and of the Council (OJ L 83 22 3 2012

Annexes II and III to Regulation (EC) No 1333/2008 of the European Parliament and of the Council (OJ L 83, 22.3.2012, p. 1).

b Commission Implementing Regulation (EU) 2015/175 of 5 February 2015 laying down special conditions applicable to the import of guar gum originating in or consigned from India due to contamination risks by pentachlorophenol and dioxins (OJ L 30, 6.2.2015, p. 10).

	Vitamin B ₂ : $30 \ \mu g$ Vitamin B ₆ : $54 \ \mu g$ Vitamin C: $28 \ mg$ Vitamin A: less than 0,1 mg Vitamin E: $40-50 \ mg$ Alpha-Tocopherol: $20-50 \ mg$ Beta and Gamma-Tocopherols: $2-15 \ mg$ Delta-Tocopherol: $0,1-2 \ mg$
Citicoline	Description/Definition: Citicoline is produced by a microbial process. 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: \geq 98 % of dry matter Loss on drying (100 °C for 4 hours): \leq 5,0 % Ammonium: \leq 0,05 % Arsenic: Not more than 2 ppm Free phosphoric acids: \leq 0,1 % 5'-Cytidylic acid: \leq 1,0 % Microbiological criteria: Total plate count: \leq 10 ³ CFU/g
	Yeast and moulds: $\leq 10^2$ CFU/g Escherichia coli: Absence in 1 g
Clostridium butyricum	Description/Definition: Clostridium butyricum (CBM-588) is a Gram-positive, spore-forming, obligate anaerobic, non-pathogenic, non-genetically modified bacterium. Depository number FERM BP-2789 Microbiological criteria: Total viable aerobic count: $\leq 10^3$ 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: $\leq 10^2$ CFU/g
Extract of defatted cocoa powder	Cocoa (<i>Theobroma cacao</i> L.) Extract Appearance: Dark brown powder free of visible impurities Physical and chemical properties: Polyphenol content: Min 55,0 % GAE Theobromine content: Max 10,0 %
a Commission Regul Annexes II and III p. 1).	ation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in to Regulation (EC) No 1333/2008 of the European Parliament and of the Council (OJ L 83, 22.3.2012,
b Commission Imple to the import of gua dioxins (OJ L 30, 6	menting Regulation (EU) 2015/175 of 5 February 2015 laying down special conditions applicable ar gum originating in or consigned from India due to contamination risks by pentachlorophenol and 5.2.2015, p. 10).

Low fat cocoa	Ash content: Max 5,0 % Moisture content: Max 8,0 % Bulk density: 0,40-0,55 g/cm ³ pH: 5,0-6,5 Residual solvent: Max 500 ppm Low fat Cocoa (<i>Theobroma cacao</i> L.) extract
extract	Appearance: Dark red to purple powder Cocoa extract, concentrate: Min 99 % Silicon dioxide (technological aid): Max 1,0 % Cocoa flavanols: Min. 300 mg/g — Epicatechin: Min. 45 mg/g Loss on drying: Max. 5,0 %
Coriander seed oil from <i>Coriandrum</i> sativum	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 CAS No.: 8008-52-4 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: $\leq 1,0$ % Purity: Refractive index (20 °C): 1,466-1,474 Acid value: $\leq 2,5$ mg KOH/g Peroxide value (PV): $\leq 5,0$ meq/kg Iodine value: 88-110 units Saponification value: 186-200 mg KOH/g Unsaponifiable matter: ≤ 15 g/kg
<i>Crataegus pinnatifida</i> dried fruit	 Description/Definition: Dried fruits of <i>Crataegus pinnatifida</i> species belonging to the <i>Rosaceae</i> family and native to north China and Korea. Composition: Dry matter: 80 % Carbohydrates: 55 g/kg fresh weight Fructose: 26,5–29,3 g/100 g Glucose: 25,5–28,1 g/100 g Vitamin C: 29,1 mg/100 g fresh weight Sodium: 2,9 g/100 g fresh weight Compotes are products obtained by thermal processing of the edible part of one or several species of fruits, whole or in pieces, sieved or not,
a Commission Regul Annexes II and III p. 1).	lation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in to Regulation (EC) No 1333/2008 of the European Parliament and of the Council (OJ L 83, 22.3.2012,
b Commission Imple	menting Regulation (EU) 2015/175 of 5 February 2015 laying down special conditions applicable

to the import of guar gum originating in or consigned from India due to contamination risks by pentachlorophenol and dioxins (OJ L 30, 6.2.2015, p. 10).

	without significant concentration. Sugars, water, cider, spices and lemon juice may be used.
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 odourless, 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: ($C_{6}H_{10}O_{5}_{6}$ Formula weight: 972,85 Assay: \geq 98 % (dry basis) Identification: Melting range: Decomposes above 278 °C Solubility: Freely soluble in water; very slightly soluble in ethanol Specific rotation: [α] $_{2}^{25}$: 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 <i>Consortium</i> <i>für Elektrochemische Industrie GmbH</i> , <i>München</i> , <i>Germany or Wacker</i> <i>Biochem Group</i> , <i>Adrian</i> , <i>MI</i> , <i>USA</i>) using the conditions described in the METHOD OF ASSAY Purity: Water: \leq 11 % (Karl Fischer Method) Residual complexant: \leq 20 mg/kg (1-decanol) Reducing substances: \leq 0,5 % (as glucose) Sulphated ash: \leq 0,1 % Lead: \leq 0,5 mg/kg
	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

a Commission Regulation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in Annexes II and III to Regulation (EC) No 1333/2008 of the European Parliament and of the Council (OJ L 83, 22.3.2012, p. 1).

b Commission Implementing Regulation (EU) 2015/175 of 5 February 2015 laying down special conditions applicable to the import of guar gum originating in or consigned from India due to contamination risks by pentachlorophenol and dioxins (OJ L 30, 6.2.2015, p. 10).

Changes to legislation: There are	currently no known outstan	ding effects for the
Commission Implementing Regulation	(EU) 2018/1023. (See end of	f Document for details)

	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-NH ₂ (10 µm) (<i>Macherey & Nagel</i> <i>Co. Düren</i> , 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 µl 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 × (A _S /A _R) (W _R /W _S) where
	A _S and A _R are the areas of the peaks due to α -cyclodextrin for the sample solution and reference solution, respectively. W _S and W _R 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: $(C_6H_{10}O_5)_8$ Assay: \geq 98 % (dry basis) Identification: Malting range: Decomposes above 285 °C
	Solubility: Freely soluble in water; very slightly soluble in ethanol Specific rotation: $\left[\alpha\right]_{D}^{25}$: between + 174° and + 180° (1% solution)
	Purity: Water: $\leq 11 \%$ Residual complexant (8-cyclohexadecen-1-one (CHDC)): $\leq 4 \text{ mg/kg}$
a Commission Regul Annexes II and III p. 1).	lation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in to Regulation (EC) No 1333/2008 of the European Parliament and of the Council (OJ L 83, 22.3.2012,

b Commission Implementing Regulation (EU) 2015/175 of 5 February 2015 laying down special conditions applicable to the import of guar gum originating in or consigned from India due to contamination risks by pentachlorophenol and dioxins (OJ L 30, 6.2.2015, p. 10).

	Residual solvent (n-decane): ≤ 6 mg/kg Reducing substances: ≤ 0.5 % (as glucose) Sulphated ash: ≤ 0.1 %		
Dextran preparation produced by <i>Leuconostoc</i> <i>mesenteroides</i>	 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 % Liquid form: Carbohydrates: 12 % with: (Dextran: 6,9 %, Mannitol: 1,1 %, Fructose: 1,9 %, Leucrose: 2,2 %) Protein: 2,0 % Lipid: 0,1 % Lactic acid: 2,0 % 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 rapeseed oil (<i>Brassica campestris, Brassica napus</i>) using a specific enzyme. Acylglycerol Distribution: Diacylglycerols (DAG): \geq 80 % 1,3-Diacylglycerols (1,3-DAG): \geq 50 % Triacylglycerols (TAG): \leq 20 % Monoacylglycerols (MAG): \leq 5,0 % Fatty Acid Composition (MAG, DAG, TAG): Oleic acid (C18:1): 20-65 % Linoleic acid (C18:2): 15-65 % Linolenic acid (C18:3): \leq 15 % Saturated fatty acids: \leq 10 % Others: Acid value: \leq 0,5 mg KOH/g Moisture and volatile: \leq 0,1 % Peroxide value (PV): \leq 1,0 meq/kg Unsaponifiables: \leq 2,0 % Trans fatty acids \leq 1,0 % MAG = monoacylglycerols, DAG = diacylglycerols, TAG = triacylglycerols		
Dihydrocapsiate	Description/Definition:		

(DHC)

- C) |
- a Commission Regulation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in Annexes II and III to Regulation (EC) No 1333/2008 of the European Parliament and of the Council (OJ L 83, 22.3.2012, p. 1).

b Commission Implementing Regulation (EU) 2015/175 of 5 February 2015 laying down special conditions applicable to the import of guar gum originating in or consigned from India due to contamination risks by pentachlorophenol and dioxins (OJ L 30, 6.2.2015, p. 10).

	Dihydrocapsiate is synthesised by enzyme-catalysed esterification of vanillyl alcohol and 8-methylnonanoic acid. Following the esterification dihydrocapsiate is extracted with n-hexane. Viscous to colourless to yellow liquid Chemical formula: C_{18} H ₂₈ O ₄ CAS No: 205687-03-2 Physical-chemical properties: Dihydrocapsiate: > 94 % 8-Methylnonanoic acid: < 6,0 % Vanillyl acohol: < 1,0 % Other synthesis related substances: < 2,0 %	
Dried extract of <i>Lippia citriodora</i> from cell cultures	Description/Definition: Dried extract of <i>Lippia citriodora</i> (Palau) Kunth from cell cultures HTN [®] Vb.	
<i>Echinacea</i> <i>angustifolia</i> extract from cell cultures	Description/Definition: Extract of the roots of <i>Echinacea angustifolia</i> obtained from plant tissue culture which is substantially equivalent to a root extract from <i>Echinacea angustifolia</i> obtained in ethanol-water titrated to 4 % echinacoside.	
<i>Echinacea</i> <i>purpurea</i> extract from cell cultures	Description/Definition: Dried extract of <i>Echinacea purpurea</i> from cell cultures HTN [®] Vb	
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: $\leq 2,0 \%$ (w/w of total fatty acids) Acid value: $\leq 0,6$ mg KOH/g Peroxide value (PV): $\leq 5,0$ meq O ₂ /kg Unsaponifiable content: $\leq 2,0 \%$ Protein content (total nitrogen): $\leq 20 \mu$ g/ml Pyrrolizidine alkaloids: Not detectable with a detection limit 4,0 µg/kg	
Epigallocatechin gallate as a purified extract from green tea leaves (<i>Camellia</i> <i>sinensis</i>)	Description/Definition: A highly purified extract from the leaves of green tea (<i>Camellia sinensis</i> (<i>L.</i>) <i>Kuntze</i>) in the form of a fine, off-white to pale pink powder. It is composed of a minimum of 90 % epigallo-catechin gallate (EGCG), and has a melting point between approx. 210 and 215 °C Appearance: off-white to pale pink powder Chemical name: polyphenol (-) epigallocatechin-3-gallate Synonyms: epigallocatechin gallate (EGCG) CAS No.: 989-51-5 INCI name: epigallocatechin gallate Molecular mass: 458,4 g/mol	
a Commission Regul Annexes II and III t p. 1).	ation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in to Regulation (EC) No 1333/2008 of the European Parliament and of the Council (OJ L 83, 22.3.2012,	
b Commission Implet to the import of gua dioxins (OJ L 30, 6	Commission Implementing Regulation (EU) 2015/175 of 5 February 2015 laying down special conditions applicable to the import of guar gum originating in or consigned from India due to contamination risks by pentachlorophenol and dioxins (OJ L 30, 6.2.2015, p. 10).	

	Loss on drying: max 5,0 % Heavy metals: Arsenic: max 3,0 ppm Lead: max 5,0 ppm Assay: Min. 94 % EGCG (on dry material) max. 0,1 % caffeine Solubility: EGCG is fairly soluble in water, ethanol, methanol and acetone		
L-ergothioneine	Definition Chemical name (IUPAC): (2S)-3-(2-thioxo-2,3-dihydro-1 <i>H</i> -imidazol-4- yl)-2-(trimethylammonio)-Propanoate Chemical formula: C ₉ H ₁₅ N ₃ O ₂ S Molecular mass: 229,3 Da CAS No.: 497-30-3		
	Parameter	Specification	Method
	Appearance	White powder	Visual
	Optical rotation	$\begin{split} & [\alpha]_D \ge (+) \ 122^{\circ} \\ & (c = 1, H_2 O)^{a)} \end{split}$	Polarimetry
	Chemical purity	$\geq 99,5\%$ $\geq 99,0\%$	HPLC [Eur. Ph. 2,2.29] 1H-NMR
	Identification	Compliant with the structure C: $47,14 \pm 0,4 \%$ H: $6,59 \pm 0,4 \%$ N: $18,32 \pm 0,4 \%$	1H-NMR Elemental analysis
	Total residual solvents (methanol, ethyl acetate, isopropanol, ethanol)	[Eur. Ph. 01/2008:50400] < 1 000 ppm	Gas chromatography [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	< 3,0 ppm	ICP/AES
	Cadmium	< 1,0 ppm	(Pb, Cd)
	Mercury	< 0,1 ppm	Atomic fluorescence (Hg)

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b Commission Implementing Regulation (EU) 2015/175 of 5 February 2015 laying down special conditions applicable to the import of guar gum originating in or consigned from India due to contamination risks by pentachlorophenol and dioxins (OJ L 30, 6.2.2015, p. 10).

	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)	$\leq 1 \ge 10^2 \text{ CFU/g}$	
	Escherichia coli	Absence in 1 g	
	Eur. Ph.: Europear resonance; HPLC: permeation chrom atomic emission s CFU: colony-form a)a)Lit. $[\alpha]_D$ b)b)Analyses c)c)Maximu 1881/200	n Pharmacopoeia; 1 high-performance atography; ICP/AE pectroscopy; hing units. = $(+)$ 126,6° (c = 1 s conducted on eac m levels in accorda 06	IH-NMR: proton nuclear magnetic liquid chromatography; GPC: gel ES: Inductively coupled plasma ., H ₂ O) h batch ance with Regulation (EC) No
Ferric Sodium EDTA	Description/Definition:Ferric Sodium EDTA (ethylenediaminetetraacetic acid) is an odourlessfree-flowing, yellow to brown powder with a chemical purity of morethan 99 % (w/w). It is freely soluble in water.Chemical formula: $C_{10}H_{12}FeN_2NaO_8 * 3H_2O$ Chemical characteristics:pH of 1 % solution: $3,5-5,5$ Iron: $12,5-13,5\%$ Sodium: $5,5\%$ Water: $12,8\%$ Organic matter (CHNO): $68,4\%$ EDTA: $65,5-70,5\%$ Water insoluble matter: $\leq 0,1\%$ Nitrilo-triacetic acid: $\leq 0,1\%$		
Ferrous ammonium phosphate	Description/Defin Ferrous ammonium insoluble in water CAS No.: 10101-6 Chemical formula Chemical character pH of 5 % suspense Iron (total): \geq 28 % Iron (III): 22-30 % Iron (III): \leq 7,0 % Ammonia: 5-9 % Water: \leq 3,0 %	nition: m phosphate is a gr and soluble in dilu 60-7 : FeNH ₄ PO ₄ eristics: sion in water: 6,8-7 % (w/w) (w/w) (w/w)	rey/green fine powder, practically te mineral acids.
a Commission Regul Annexes II and III p. 1).	lation (EU) No 231/2012 o to Regulation (EC) No 13.	f 9 March 2012 laying do 33/2008 of the European F	wn specifications for food additives listed in Parliament and of the Council (OJ L 83, 22.3.2012,

Commission Implementing Regulation (EU) 2015/175 of 5 February 2015 laying down special conditions applicable to the import of guar gum originating in or consigned from India due to contamination risks by pentachlorophenol and dioxins (OJ L 30, 6.2.2015, p. 10).

Fish peptides from <i>Sardinops</i> <i>sagax</i>	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: ≤ 10 g/100 g Moisture: ≤ 8 g/100 g (¹) Kjeldahl method
Flavonoids from <i>Glycyrrhiza</i> glabra	Description/Definition: Flavonoids derived from the roots or rootstock of <i>Glycyrrhiza glabra</i> L. are extracted 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 (PV): < 0,5 meq/kg Glabridin: 2,5-3,5 % of fat Glycyrrhizinic acid: < 0,005 % Fat including polyphenol-type substances: \geq 99 % Protein: < 0,1 % Carbohydrates: not detectable
Fucoidan extract from the seaweed Fucus vesiculosus a Commission Regul Annexes II and III	Description/Definition: Fucoidan from the seaweed Fucus vesiculosus is extracted using aqueous extraction in acidic solution and filtration processes without the use of organic solvents. The resulting extract is concentrated and dried to yield the fucoidan extract with the following specifications: Off-white to brown powder Odour and Taste: Bland odour and taste Moisture: < 10 % (105 °C for 2 hours) pH value: 4,0-7,0 (1 % suspension at 25 °C) Heavy metals: Arsenic (inorganic): < 1,0 ppm Cadmium: < 3,0 ppm Lead: < 2,0 ppm Mercury: < 1,0 ppm Microbiological criteria: Total aerobic microbial count: < 10 000 CFU/g Yeast and mould count: < 100 CFU/g Total enterobacteria count: Absence/g Escherichia coli: Absence/g Salmonella: Absence/10 g ation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in to Regulation (EC) No 1333/2008 of the European Parliament and of the Council (OJ L 83, 22.3.2012,

b Commission Implementing Regulation (EU) 2015/175 of 5 February 2015 laying down special conditions applicable to the import of guar gum originating in or consigned from India due to contamination risks by pentachlorophenol and dioxins (OJ L 30, 6.2.2015, p. 10).

	Staphylococcus aureus: Absence/gComposition of the two permitted types of extracts, based on the level offucoidan:Extract 1:Fucoidan: 75-95 %Alginate: 2,0-5,5 %Polyphloroglucinol: 0,5-15 %Mannitol: 1-5 %Natural salts/Free Minerals: 0,5-2,5 %Other carbohydrates: 0,5-1,0 %Protein: 2,0-2,5 %Extract 2:Fucoidan: 60-65 %Alginate: 3,0-6,0 %Polyphloroglucinol: 20-30 %Mannitol: < 1,0 %Natural salts/Free Minerals: 0,5-2,0 %Other carbohydrates: 0,5-2,0 %Protein: 2,0-2,5 %
Fucoidan extract from the seaweed Undaria pinnatifida	Description/Definition:Fucoidan from seaweed Undaria pinnatifida is extracted using aqueous extraction in acidic solution and filtration processes without the use of organic solvents. The resulting extract is concentrated and dried to yield the fucoidan extract with the following specifications: Off-white to brown powder Odour and Taste: Bland odour and taste Moisture: < 10 % (105 °C for 2 hours) pH value: 4,0-7,0 (1 % suspension at 25 °C) Heavy metals: Arsenic (inorganic): < 1,0 ppm Cadmium: < 3,0 ppm Lead: < 2,0 ppm Mercury: < 1,0 ppm
a Commission Regu Annexes II and III p. 1).	lation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in to Regulation (EC) No 1333/2008 of the European Parliament and of the Council (OJ L 83, 22.3.2012,
b Commission Imple to the import of gu dioxins (OJ L 30, c	ementing Regulation (EU) 2015/175 of 5 February 2015 laying down special conditions applicable ar gum originating in or consigned from India due to contamination risks by pentachlorophenol and 6.2.2015, p. 10).

Changes to legislation: There are currently no known outstanding effects for the	
Commission Implementing Regulation (EU) 2018/1023. (See end of Document for detail	ls)

		Natural salts/Free Minerals: 0,5-1,0 % Other carbohydrates: 0,5-2,0 % Protein: 2,0-2,5 % <i>Extract 2:</i> Fucoidan: 50-55 % Alginate: 2,0-4,0 % Polyphloroglucinol: 1,0-3,0 % Mannitol: 25-35 % Natural salts/Free Minerals: 8-10 % Other carbohydrates: 0,5-2,0 % Protein: 1,0-1,5 %	
2'-IFucosyllactose (synthetic)()		Definition: Chemical name: α-L-Fucopyranosyl-(1→2)-β-D-galactopyranosyl- (1→4)- D-glucopyranose Chemical formula: $C_{18}H_{32}O_{15}$ CAS No: 41263-94-9 Molecular weight: 488,44 g/mol Description: 2'-fucosyllactose is a white to off-white powder that is produced by a chemical synthesis process. Purity: 2'-Fucosyllactose: ≥ 95 % D-Lactose: $\leq 1,0$ w/w % D-Lactose: $\leq 1,0$ w/w % D-Lactose: $\leq 1,0$ w/w % Difucosyl- D-lactulose isomers: $\leq 1,0$ w/w % 2'-Fucosyl- D-lactulose: $\leq 0,6$ w/w % pH (20 °C, 5 % solution): 3,2-7,0 Water (%): $\leq 9,0$ % Ash, sulphated: $\leq 0,2$ % Acetic acid: $\leq 0,3$ % Residual solvents (methanol, 2-propanol, methyl acetate, acetone): $\leq 50,0$ mg/kg singly, $\leq 200,0$ mg/kg in combination Residual proteins: $\leq 0,01$ % Heavy Metals: Palladium: $\leq 0,1$ mg/kg Nickel: $\leq 3,0$ mg/kg Microbiological criteria: Aerobic mesophilic bacteria total count: ≤ 500 CFU/g	
2'- Fue	cosvllactose	Definition: Chemical name: α -L-Fucopyranosyl-(1 \rightarrow 2)- β -D-galactopyranosyl-	
(microbial source)		(1→4)-D-glucopyranose Chemical formula: $C_{18}H_{32}O_{15}$ CAS No: 41263-94-9 Molecular weight: 488,44 g/mol	
a	Commission Regul Annexes II and III p. 1).	ation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in to Regulation (EC) No 1333/2008 of the European Parliament and of the Council (OJ L 83, 22.3.2012,	
b	Commission Implementing Regulation (EU) 2015/175 of 5 February 2015 laying down special conditions applicable to the import of guar gum originating in or consigned from India due to contamination risks by pentachlorophenol and dioxins (OJ L 30, 6.2.2015, p. 10).		

Source:	Source:
Genetically modified strain of	Genetically modified strain of
Escherichia coli K-12	Escherichia coli BL21
2'-Fucosyllactose is a white to off- white powder that is produced by a microbial process.	2'-Fucosyllactose is a white to off white powder and the liquid concentrate $(45 \% \pm 5 \% \text{ w/v})$
Purity: 2'-Fucosyllactose: $\geq 90\%$ D-Lactose: $\leq 3.0\%$	to slight yellow clear aqueous solution 2'-Fucosyllactose is
L-Fucose: $\leq 2,0$ Difucosyl-D-lactose: $\leq 2,0$ %	produced by a microbiological process.
2'-Fucosyl-D-lactulose: $\leq 1,0 \%$ pH (20 °C, 5 % solution): 3,0-7,5	Purity: 2'-Fucosyllactose: $\geq 90\%$
Sulphated ash: $\leq 2,0 \%$ Acetic acid: $\leq 1.0 \%$	Fucose: $\leq 3,0\%$ 3-Fucosyllactose: $\leq 5.0\%$
Residual proteins: ≤ 0,01 % Microbiological criteria:	Fucosylgalactose: $\leq 3,0\%$ Difucosyllactose: $\leq 5,0\%$
Aerobic mesophilic bacteria total count: $\leq 3\ 000\ CFU/g$ Yeasts: $\leq 100\ CFU/g$	Glucose: $\leq 3,0\%$ Galactose: $\leq 3,0\%$ Water: $\leq 9,0\%$ (powder)
Moulds: $\leq 100 \text{ CFU/g}$ Endotoxins: $\leq 10 \text{ EU/mg}$	Ash, sulphated: ≤ 0.5 % (powder and liquid)
	Residual proteins: $\leq 0,01 \%$ (powder and liquid)
	Lead: $\leq 0,02$ mg/kg (powder and liquid);
	Arsenic: $\leq 0,2 \text{ mg/kg}$ (powder and liquid)
	Cadmium: $\leq 0,1$ mg/kg (powder and liquid)
	liquid Microbiological criteria:
	Total plate count: $< 10^4 \text{ CFU/g}$
	(powder), $\leq 5\ 000\ CFU/g\ (liquid)$ Yeasts and Moulds: $\leq 100\ CFU/g\ (liquid)$
	(powder); \leq 50 CFU/g (liquid) Enterobacteriaceae/Coliforms:
	absence in 11g (powder and liquid) Salmonella: negative/100 g
	(powder), negative/200 ml (liquid) <i>Cronobacter</i> : negative/100 g
	(powder), negative/200 ml (liquid)

a Commission Regulation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in Annexes II and III to Regulation (EC) No 1333/2008 of the European Parliament and of the Council (OJ L 83, 22.3.2012, p. 1).

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		Endotoxins: $\leq 100 \text{ EU/g}$ (powder), $\leq 100 \text{ EU/ml}$ (liquid) Aflatoxin M1: $\leq 0,025 \mu\text{g/kg}$ (powder and liquid)
Galacto- oligosaccharide	Description/Definition:Galacto-oligosaccharide is produced from milk lactose by an nzymatic process using β-galactosidases from Aspergillus oryzae, Bifidobacterium bifidum, Pichia pastoris, Sporobolomyces singularis, Kluyveromyces lactis, Bacillus circulans, and Papiliotrema terrestris.GOS: min 46 % Dry Matter (DM) Lactose: max 40 % DM Galactose: min 0,8 % DM Ash: max 4,0 % DM Protein: max 4,5 % DM Nitrite: max. 2 mg/kg	
Glucosamine HCl from <i>Aspergillus</i> <i>niger</i> and genetically modified strain of <i>E. coli</i> K-12	White crystalline odourless powder Molecular formula: $C_6H_{13}NO_5 \cdot HCl$ Relative molecular mass: 215,63 g/mol D-Glucosamine HCl 98,0-102,0 % of reference standard (HPLC) Specific rotation + 70,0° - + 73,0°	
Glucosamine sulphate KCl from <i>Aspergillus</i> <i>niger</i> and genetically modified strain of <i>E. coli</i> K-12	White crystalline odourless powder Molecular formula: $(C_6H_{14}NO_5)_2SO_4 \cdot 2KCl$ Relative molecular mass: 605,52 g/mol D-Glucosamine Sulphate 2KCl 98,0-102,0 % of reference standard (HPLC) Specific Rotation +50,0° to +52,0°	
Glucosamine sulphate NaCl from <i>Aspergillus</i> <i>niger</i> and genetically modified strain of <i>E. coli</i> K-12	White crystalline odourless powder Molecular formula: $(C_6H_{14}NO_5)_2SO_4 \cdot 2NaCl$ Relative molecular mass: 573,31 g/mol D-Glucosamine HCl: 98-102 % of reference standard (HPLC) Specific Optical Rotation: +52° - +54°	
Guar Gum	Description/Definition: Native guar gum is the ground endosp of guar <i>Cyamopsis tetragonolobus</i> L. It consists of a high molecular weight composed of galactopyranose and man	berm of seeds from natural strains Taub. (<i>Leguminosae</i> family). polysaccharide, primarily nnopyranose units combined
a Commission Regul Annexes II and III t p. 1).	ation (EU) No 231/2012 of 9 March 2012 laying dow to Regulation (EC) No 1333/2008 of the European Pa	n specifications for food additives listed in rliament and of the Council (OJ L 83, 22.3.2012,
b Commission Implet to the import of gua dioxins (OJ L 30, 6	Commission Implementing Regulation (EU) 2015/175 of 5 February 2015 laying down special conditions applicable to the import of guar gum originating in or consigned from India due to contamination risks by pentachlorophenol and dioxins (OJ L 30, 6.2, 2015, p. 10).	

	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 Einces Number: 232-536-8 Purity: As specified by Commission Regulation (EU) No 231/2012 laying down specifications for food additives listed in Annexes II and III to Regulation (EC) No 1333/2008 of the European Parliament and of the Council ^a & by Commission Implementing Regulation (EU) 2015/175 of 5 February 2015 laying down special conditions applicable to the import of guar gum originating in or consigned from India due to contamination risks by pentachlorophenol and dioxins ^b . Physico-chemical properties: Powder Shelf-life: 2 years Colour: Uight Average diameter of particles: 60-70µm Moisture: Max 15 % Viscosity * at 1 hour — Viscosity * at 2 hours: Min 3 600 mPa.s Solubility: Soluble in hot and cold water pH for 10g/L, at 25 °C - 6-7,5 Flakes Useful life: 1 year Colour: 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 3 000 mPa.s Viscosity * at 2 hours: Min 3 000 mPa.s Viscosity * at 2 hours: Min 3 000 mPa.s Odour: Light Average diameter of particles: 1-10 mm Moisture: Max 15 % Viscosity * at 2 hours: Min 3 000 mPa.s Viscosity * at 2 hours — Viscosity * at 2 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> <i>xylanisolvens</i>	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
a Commission Regu Annexes II and III p. 1).	lation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in to Regulation (EC) No 1333/2008 of the European Parliament and of the Council (OJ L 83, 22.3.2012,
 Commission Implementing Regulation (EU) 2015/175 of 5 February 2015 laying down special conditions applicable to the import of guar gum originating in or consigned from India due to contamination risks by pentachlorophenol and dioxins (OJ L 30, 6.2.2015, p. 10). 	

	does not contain viable cells of <i>Bacteroides xylanisolvens</i> (DSM 23964)
	$(^{1}).$
	$(^1)$ Modified DIN EN ISO 21528-2.
Hydroxytyrosol	Description/Definition: Hydroxytyrosol is a pale yellow viscous liquid obtained by chemical synthesis Molecular formula: $C_8H_{10}O_3$ Molecular weight: 154,6 g/mol CAS No: 10597-60-1 Moisture $\leq 0,4$ % Odour: Characteristic Taste: Slightly bitter Solubility (water): Miscible with water pH: 3,5-4,5 Refractive Index: 1,571-1,575 Purity: Hydroxytyrosol: ≥ 99 % Acetic acid: $\leq 0,4$ % Hydroxytyrosol acetate: $\leq 0,3$ % Sum of homovanillic acid, iso-homovanilic acid, and 3- methoxy-4hydroxyphenylglycol: $\leq 0,3$ % Heavy Metals Lead: $\leq 0,01$ mg/kg Mercury: $\leq 0,01$ mg/kg Residual Solvents Ethyl acetate: $\leq 2,50$ mg/kg Isopropanol: $\leq 2,50$ mg/kg Methanol: $\leq 2,00$ mg/kg Tetrahydrofuran: $\leq 0,01$ mg/kg
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 (<i>Saccharomyces cerevisiae</i>) 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: ≥ 5 g/l active ISP pH: 2,5-3,5 Ash: $\leq 2,0\%$
a Commission Regu Annexes II and III p. 1).	lation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in to Regulation (EC) No 1333/2008 of the European Parliament and of the Council (OJ L 83, 22.3.2012,
b Commission Impletto to the import of guidioxins (OJ L 30, 0	menting Regulation (EU) 2015/175 of 5 February 2015 laying down special conditions applicable ar gum originating in or consigned from India due to contamination risks by pentachlorophenol and 6.2.2015, p. 10).

DNA: Not detectable

Aqueous extract of dried leaves of <i>Ilex guayusa</i>	Description/Definition: Dark brown liquid. Aqueous extracts of dried leaves of <i>Ilex guayusa</i> . Composition: Protein: < 0,1 g/100 ml Fat: < 0,1 g/100 ml Carbohydrate: 0,2–0,3 g/100 ml Total sugars: < 0,2 g/100 ml Caffeine: 19,8–57,7 mg/100 ml Theobromine: 0,14–2,0 mg/100 ml Chlorogenic acids: 9,9–72,4 mg/100ml	
Isomalto- oligosaccharide	Powder: Solubility (water) (%): > 99 Glucose (% dry basis): \leq 5,0 Isomaltose + DP3 to DP9 (% dry basis): \geq 90 Moisture (%): \leq 4,0 Sulphated ash(g/100 g): \leq 0,3 Heavy metals: Lead (mg/kg): \leq 0,5 Arsenic (mg/kg): \leq 0,5 Syrup: Dried solids (g/100 g): > 75 Glucose (% dry basis): \leq 5,0 Isomaltose + DP3 to DP9 (% dry basis): \geq 90 pH: 4 - 6 Sulphated ash(g/100 g): \leq 0,3 Heavy metals: Lead (mg/kg): \leq 0,5 Arsenic (mg/kg): \leq 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: $6-O-\alpha$ -D-glucopyranosyl-D-fructofuranose, monohydrate CAS No.: 13718-94-0 Chemical formula: $C_{12}H_{22}O_{11} \cdot H_2O$ Structural formula	
 a Commission Regulation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in Annexes II and III to Regulation (EC) No 1333/2008 of the European Parliament and of the Council (OJ L 83, 22.3.2012, p. 1). 		
b Commission Impleto to the import of gu	Commission Implementing Regulation (EU) 2015/175 of 5 February 2015 laying down special conditions applicable to the import of guar gum originating in or consigned from India due to contamination risks by pentachlorophenol and	

	_	
Formula weight: $360,3$ (monoh Purity: Assay: ≥ 98 % on the dry basis Loss on drying: $\leq 6,5$ % (60 °C Heavy metals: Lead: $\leq 0,1$ mg/kg Determine using an atomic abso specified level. The selection of preparation may be based on th FNP 5(¹), 'Instrumental method (¹) Food and Nutrition Pa for general notices, general n	G_{H_2O} G_{H	
LactitolDescription/Definition: Crystalline powder or colourles hydrogenation of lactose. Cryst monohydrate and dihydrate for Chemical name: 4-O- β -D-Gala Chemical formula: C12H24O11 Molecular weight: 344,31 g/mc CAS No: 585-86-4 Purity: Solubility (in water): Very solu Specific rotation [α] $_D^{20} = + 13^\circ$ Assay: ≥ 95 % d.b (d.b — expr Water: $\leq 10,5$ % Other polyols: $\leq 2,5$ % d.b Reducing sugars: $\leq 0,2$ % d.b Chlorides: ≤ 100 mg/kg d.b Sulphated ash: $\leq 0,1$ % d.b Nickel: $\leq 2,0$ mg/kg d.b	The second seco	
 a Commission Regulation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in Annexes II and III to Regulation (EC) No 1333/2008 of the European Parliament and of the Council (OJ L 83, 22.3.2012, p. 1). 		

Commission Implementing Regulation (EU) 2015/175 of 5 February 2015 laying down special conditions applicable to the import of guar gum originating in or consigned from India due to contamination risks by pentachlorophenol and dioxins (OJ L 30, 6.2.2015, p. 10).

	Arsenic: \leq 3,0 mg/kg d.b Lead: \leq 1,0 mg/kg d.b
Lacto-N- neotetraose (synthetic)	Definition: 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 Description: Lacto-N-neotetraose is a white to off-white powder. Produced by a chemical synthesis process and is isolated by crystallisation. Purity: Assay (water free): $\geq 96 \%$ D-Lactose: $\leq 1,0 \%$ Lacto-N-neotetraose fructose isomer: $\leq 0,6 \%$ pH (20 °C, 5 % solution): 5,0-7,0 Water: $\leq 9,0 \%$ Ash, sulphated: $\leq 0,4 \%$ Acetic acid: $\leq 0,3 \%$ Residual solvents (methanol, 2-propanol, methyl acetate, acetone): $\leq 50 \text{ mg/kg singly} \leq 200 \text{ mg/kg in combination}$ Residual proteins: $\leq 0,01 \%$ Palladium: $\leq 0,1 \text{ mg/kg}$ Nickel: $\leq 3,0 \text{ mg/kg}$ Microbiological criteria: Aerobic mesophilic bacteria total count: $\leq 500 \text{ CFU/g}$ Yeasts: $\leq 10 \text{ CFU/g}$ Moulds: $\leq 10 \text{ CFU/g}$
Lacto- <i>N</i> - neotetraose (microbial source)	Definition: Chemical name: β -D-Galactopyranosyl- $(1\rightarrow 4)$ -2-acetamido-2-deoxy- β - D-glucopyranosyl- $(1\rightarrow 3)$ - β -D-galactopyranosyl- $(1\rightarrow 4)$ -D-glucopyranose Chemical formula: C ₂₆ H ₄₅ NO ₂₁ CAS No: 13007-32-4 Molecular weight: 707,63 g/mol Source: Genetically modified strain of <i>Escherichia coli</i> K-12 Description: Lacto- <i>N</i> -neotetraose is a white to off-white powder that is produced by a microbiological process. Lacto- <i>N</i> -neotetraose is isolated by crystallisation. Purity: Assay (water free): \geq 92 % D-Lactose: \leq 3,0 %
a Commission Regul Annexes II and III p. 1).	lation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in to Regulation (EC) No 1333/2008 of the European Parliament and of the Council (OJ L 83, 22.3.2012,
b Commission Implet to the import of guidioxins (OJ L 30, 6	ementing Regulation (EU) 2015/175 of 5 February 2015 laying down special conditions applicable ar gum originating in or consigned from India due to contamination risks by pentachlorophenol and 5.2.2015, p. 10).

	Lacto-N-triose II: $\leq 3,0\%$
	<i>para</i> -Lacto-N-neohexaose: $\leq 3,0\%$
	Lacto-N-neotetraose fructose isomer: $\leq 1,0 \%$
	pH (20 °C, 5 % solution): 4,0-7,0
	Water: $\le 9,0 \%$
	Ash, sulphated: $\leq 0,4\%$
	Residual solvents (methanol): $\leq 100 \text{ mg/kg}$
	Residual proteins: $\leq 0,01 \%$
	Microbiological criteria:
	Aerobic mesophilic bacteria total count: \leq 500 CFU/g
	Yeasts: $\leq 10 \text{ CFU/g}$
	Moulds: $\leq 10 \text{ CFU/g}$
	Residual endotoxins: $\leq 10 \text{ EU/mg}$
Lucerne leaf	Description/Definition:
extract from	The Lucerne (<i>Medicago sativa</i> L) is processed within 2 hours after
Medicago sativa	harvest It is chopped and crushed By passing through an oleaginous-
meureugo sunru	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 vanour 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: $< 1.4 \%$
	$I_{soflavones} \leq 350 \text{ mg/kg}$
	Coursestrol: $\leq 100 \text{ mg/kg}$
	Phytates: < 200 mg/kg
	L-canavanine: $< 4.5 \text{ mg/kg}$
Lycopene	Description/Definition:
	Synthetic lycopene is produced by the wittig condensation of synthetic
	intermediates commonly used in the production of other carotenoids
	used in 100d. Synthetic lycopene consists of \geq 96 % lycopene and minor
	quantities of other related carolenoid components. Lycopene is presented
	deriver as a powder in a suitable matrix of an only dispersion. The colour is
	Chemical name: Lyconana
	Chemical halfe. Lycopene CAS No : 502 65 8 (all trans lycopene)
	Chemical formula: C. H.
a Commission Regul Annexes II and III	ation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in to Regulation (EC) No 1333/2008 of the European Parliament and of the Council (OLL 83, 22, 3, 2012)
p. 1).	(10) (10)
b Commission Imple	menting Regulation (EU) 2015/175 of 5 February 2015 laying down special conditions applicable
to the import of guar gum originating in or consigned from India due to contamination risks by pentachlorophenol and	
dioxins (OJ L 30, 6	.2.2015, p. 10).
	Formula weight: 536,85 Da
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Lycopene from <i>Blakeslea</i> <i>trispora</i>	Description/Definition: The purified lycopene from <i>Blakeslea trispora</i> consists of \geq 95 % lycopene and \leq 5 % other carotenoids. It is presented either as a powder in a suitable matrix or an oily dispersion. The colour is dark red or redviolet. Anti-oxidative 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 Da
Lycopene from tomatoes	Description/Definition: The purified lycopene from tomatoes (<i>Lycopersicon esculantum</i> L.) consists of \geq 95 % lycopene and \leq 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 ₄₀ H ₅₆ Formula weight: 536,85 Da
Lycopene oleoresin from tomatoes	Description/Definition: 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): (0,5-0,75/0,4-0,65/0,2-0,35 %) Total tocopherols: 1,5-3,0 % Unsaponifiable matter: 13-20 % Total fatty acids: 60-75 % Water (Karl Fischer): \leq 0,5 %
Magnesium citrate malate	Description/Definition: Magnesium citrate malate is a white to yellowish-white, amorphous powder. Chemical formula: $Mg_5(C_6H_5O_7)_2(C_4H_4O_5)_2$ 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
a Commission Regul Annexes II and III p. 1).	ation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in to Regulation (EC) No 1333/2008 of the European Parliament and of the Council (OJ L 83, 22.3.2012,
b Commission Imple to the import of gua dioxins (OJ L 30, 6	menting Regulation (EU) 2015/175 of 5 February 2015 laying down special conditions applicable ar gum originating in or consigned from India due to contamination risks by pentachlorophenol and .2.2015, p. 10).

	Colour (20 % aqueous solution): Colourless to yellowish Appearance (20 % aqueous solution): Clear solution
	pH (20 % aqueous solution): Approx. 6,0
	Impurities:
	Chloride: $\leq 0.05\%$ Subbate: $\leq 0.05\%$
	Arsenic: ≤ 3.0 nnm
	Lead: ≤ 2.0 ppm
	Cadmium: ≤ 1 ppm
	Mercury: $\leq 0,1$ ppm
Magnolia Bark Extract	Description/Definition: Magnolia bark extract is obtained from the bark of the plant <i>Magnolia</i> <i>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 Purity: Magnolol: $\geq 85,2 \%$ Honokiol: $\geq 0,5 \%$ Magnolol & Honokiol: $\geq 94 \%$ Total Eudesmol: $\leq 2 \%$ Moisture: 0,50 % Heavy metals:
	Arsenic (ppm): < 0.5
	Lead (ppm): ≤ 0.5
	Methyl eugenol (ppm): ≤ 10
	Tubocurarine (ppm): $\leq 2,0$
	Iotal Alkalold (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: $> 9.0 \text{ g}/100 \text{ g}$
	Tocopherols: $\geq 1,3 \text{ g}/100 \text{ g}$
	α-tocopherol (%): 10-25 %
	β -tocopherol (%): < 3,0 %
	γ -incorpherol (%): 08-89 % 8-tocorpherol (%): < 7.0 %
	Sterols, triterpenic alcohols, methylsterols: $> 6.5 \text{ g/100 g}$
	Fatty acids in triglycerides:
a Commission Regul Annexes II and III p. 1).	ation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in to Regulation (EC) No 1333/2008 of the European Parliament and of the Council (OJ L 83, 22.3.2012,
b Commission Imple to the import of gua dioxins (OJ L 30, 6	menting Regulation (EU) 2015/175 of 5 February 2015 laying down special conditions applicable ar gum originating in or consigned from India due to contamination risks by pentachlorophenol and 0.2.2015, p. 10).

	palmitic acid: 10,0-20,0 %
	stearic acid: < 3,3 %
	oleic acid: 20,0-42,2 %
	linoleic acid: 34,0-65,6 %
	linolenic acid: $< 2,0 \%$
	Acid value: $\leq 6,0 \text{ mg KOH/g}$
	Peroxide value (PV): $\leq 10 \text{ mEq } O_2/\text{kg}$
	Heavy metals:
	Iron (Fe): $< 1500 \mu g/kg$
	Copper (Cu): $< 100 \ \mu g/kg$
	Polycyclic aromatic hydrocarbons (PAH) Benzo(a)pyrene: $< 2 \ \mu g/kg$
	I reatment with active carbon is required to ensure that polycyclic
	aromatic hydrocarbons (PAH) are not enriched in the production of
	maize-germ oil high in unsaponifiable matter
Methylcellulose	Description/Definition:
	Methyl cellulose is cellulose obtained directly from natural strains of
	fibrous plant material and partially etherified with methyl groups.
	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:
	- CH ₃ or
	- CH ₂ CH ₃
	Molecular weight: Macromolecules: from about 20 000 (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)
	Slightly hygroscopic white or slightly yellowish or greyish odourless and
	tasteless, granular or fibrous powder.
	Solubility: Swelling in water, producing a clear to opalescent, viscous,
	colloidal solution. Insoluble in ethanol, ether and chloroform. Soluble in
	Furily: Loss on drains: (10.9) (105.9C, 2 hours)
	Loss off drying. ≥ 10.70 (103°C, 5 flours) Subhatad Ash: $\leq 1.5.\%$ datarmined at $800 \pm 25.\%$
	Supplied Asil. $\leq 1.5\%$ determined at $800 \pm 25\%$ C pH: ≥ 5.0 and ≤ 8.0 (1% colloidal solution)
	Heavy metals:
	Arsenic: $< 3.0 \text{ mg/kg}$
	Lead: $< 2.0 \text{ mg/kg}$
	Mercury: $< 1.0 \text{ mg/kg}$
	Cadmium: $\leq 1.0 \text{ mg/kg}$
a Commission Pogul	Lation (FLD) No 221/2012 of 0 March 2012 Joying down specifications for food additives listed in

A Commission Regulation (EC) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in Annexes II and III to Regulation (EC) No 1333/2008 of the European Parliament and of the Council (OJ L 83, 22.3.2012, p. 1).

b Commission Implementing Regulation (EU) 2015/175 of 5 February 2015 laying down special conditions applicable to the import of guar gum originating in or consigned from India due to contamination risks by pentachlorophenol and dioxins (OJ L 30, 6.2.2015, p. 10).

(6S)-5-	Description/Definition:
methyltetrahydro	Collia mical name: N-[4-[[[(6S)-2-amino-1,4,5,6,7,8-hexahydro-5-methyl-4-
acid,	oxo-6-pteridinyl]methyl]amino]benzoyl]-L-glutamic acid, glucosamine
glucosamine	salt
salt	Chemical formula: $C_{32}H_{51}N_9O_{16}$
	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: $\leq 8,0\%$
	Heavy metals:
	Lead: $\leq 2,0$ ppm
	Cadmium: $\leq 1,0$ ppm
	Mercury: $\leq 0,1$ ppm
	Arsenic: ≤ 2.0 ppm
	Boron: ≤ 10 ppm
	Microbiological criteria:
	Total aerobic microbial count: $\leq 100 \text{ CFU/g}$
	Yeasts and moulds: $< 100 \text{ CFU/g}$
	Escherichia coli: Absence in 10g
Monomethylsilar	desceription/Definition:
(Organic	Chemical name: Silanetriol, 1-methyl-
Silicon)	Chemical formula: $CH_6O_3S_1$
	Molecular weight: 94,14 g/mol
	CAS No: 2445-53-6
	Purity:
	Organic Silicon (monomethylsilanetriol) preparation (aqueous solution):
	Acidity (pH): 6,4-6,8
	Silicon: 100-150 mg Si/l
	Heavy metals:
	Lead: $\leq 1,0 \ \mu g/l$
	Mercury: $\leq 1,0 \ \mu g/l$
	Cadmium: $\leq 1,0 \ \mu g/l$
	Arsenic: $\leq 3.0 \ \mu g/l$
	Solvents:
	Methanol: \leq 5,0 mg/kg (residual presence)
Mycelial extract	Description/Definition:
from Shiitake	The novel food ingredient is a sterile aqueous extract obtained from the
mushroom	mycelium of <i>Lentinula edodes</i> cultivated in a submerged fermentation. It
(Lentinula	is a light brown slightly turbid liquid
edodes)	is a right of o wit, singlicity tarona require.
a Commission Regul	ation (FU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in
Annexes II and III	to Regulation (EC) No 1333/2008 of the European Parliament and of the Council (OJ L 83, 22.3.2012,
p. 1).	
b Commission Imple	menting Regulation (EU) 2015/175 of 5 February 2015 laying down special conditions applicable
b Commission Imple to the import of gu	menting Regulation (EU) 2015/175 of 5 February 2015 laying down special conditions applicable ar gum originating in or consigned from India due to contamination risks by pentachlorophenol and

	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. Purity/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
Noni fruit juice (<i>Morinda</i> <i>citrifolia</i>)	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: $\leq 10 \ \mu g/kg$ Lucidin: $\leq 10 \ \mu g/kg$
Noni fruit juice powder (<i>Morinda</i> <i>citrifolia</i>)	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 (<i>Morinda</i> <i>citrifolia</i>)	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 ($50-60 \degree C$ 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: $< 0.6 g/100 \ g$
a Commission Regul	ation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in

Annexes II and III to Regulation (EC) No 1333/2008 of the European Parliament and of the Council (OJ L 83, 22.3.2012, p. 1).

b Commission Implementing Regulation (EU) 2015/175 of 5 February 2015 laying down special conditions applicable to the import of guar gum originating in or consigned from India due to contamination risks by pentachlorophenol and dioxins (OJ L 30, 6.2.2015, p. 10).

	Fat: $\leq 0,4 \text{ g}/100 \text{ g}$ Ash: $< 1,0 \text{ g}/100 \text{ g}$ Total carbohydrates: $5-10 \text{ g}/100 \text{ g}$ Fructose: $0,5-3,82 \text{ g}/100 \text{ g}$ Glucose: $0,5-3,14 \text{ g}/100 \text{ g}$ Dietary fibre: $< 0,5-3 \text{ g}/100 \text{ g}$ $5,15$ -dimethylmorindol (1): $\leq 0,254 \mu\text{g/ml}$ Lucidin (1): Not detectable Alizarin (1): Not detectable Rubiadin (1): Not detectable Concentrate: Moisture: $48-53 \%$ Protein: $3-3,5 \text{ g}/100 \text{ g}$ Fat: $< 0,04 \text{ g}/100 \text{ g}$ Total carbohydrates: $37-45 \text{ g}/100 \text{ g}$ Fructose: $9-11 \text{ g}/100 \text{ g}$ Dietary fibre: $1,5-5,0 \text{ g}/100 \text{ g}$ Dietary fibre: $1,5-5,0 \text{ g}/100 \text{ g}$ $5,15$ -dimethylmorindol (¹): $\leq 0,254 \mu\text{g/ml}$ (¹) By an HPLC-UV method developed and validated for the analysis of anthraguinones in Morinda citrifolia purge	
	analysis of anin'raquinones in Morinaa 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 (<i>Morinda</i> <i>citrifolia</i>)	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. Purity/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: $< 47 mg/kgRubiadin: non detectable, \le 10 \text{ µg/kg}Lucidin: non detectable, \le 10 \text{ µg/kg}$	
Noni fruit powder (<i>Morinda</i> <i>citrifolia</i>)	Description/Definition: Noni fruit powder is made from 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.	
a Commission Regul Annexes II and III p. 1).	ation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in to Regulation (EC) No 1333/2008 of the European Parliament and of the Council (OJ L 83, 22.3.2012,	
b Commission Imple to the import of gua dioxins (OJ L 30, 6	Commission Implementing Regulation (EU) 2015/175 of 5 February 2015 laying down special conditions applicable to the import of guar gum originating in or consigned from India due to contamination risks by pentachlorophenol and dioxins (OJ L 30, 6.2.2015, p. 10).	

	Purity/CompositionMoisture: $5,3-9 \%$ Protein: $3,8-4,8 \text{ g/100 g}$ Fat: $1-2 \text{ g/100 g}$ Ash: $4,6-5,7 \text{ g/100 g}$ Total carbohydrates: $80-85 \text{ g/100 g}$ Fructose: $20,4-22,5 \text{ g/100 g}$ Glucose: $22-25 \text{ g/100 g}$ Dietary fibre: $15,4-24,5 \text{ g/100 g}$ $5,15$ -dimethylmorindol (1): $\leq 2,0 \mu$ g/ml(1)By an HPLC-UV method developed and validated for the	
Odontella aurita	Limits of detection: 2,5 ng/ml (5,15 dimethylmorindol)	
microalgae	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): $\leq 2,0 \%$ Monoacylglycerols (MAG): $\leq 10 \%$ Diacylglycerols (DAG): $\leq 25 \%$ Triacylglycerols (TAG): Making up the balance Phytosterol fraction: β -sitosterol: $\leq 80 \%$ β -sitostanol: $\leq 15 \%$ campesterol: $\leq 40 \%$ campestanol: $\leq 5,0 \%$ stigmasterol: $\leq 3,0 \%$ other sterols/stanols: $\leq 3,0 \%$ Others: Moisture and volatile: $\leq 0,5 \%$ Peroxide value (PV): $< 5,0$ meq/kg Trans fatty acids: $\leq 1 \%$ Contamination/Purity (GC-FID or equivalent method) of phytosterols/ 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 %.	
Oil extracted from squids	Acid value: ≤ 0.5 KOH/g oil Peroxide value (PV): ≤ 5 meq O ₂ /kg oil p-Anisidine value: ≤ 20 Cold test at 0 °C: ≤ 3 hours Moisture: $\leq 0.1 \%$ (w/w)	
a Commission Regul Annexes II and III p. 1).	ation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in to Regulation (EC) No 1333/2008 of the European Parliament and of the Council (OJ L 83, 22.3.2012,	
b Commission Imple to the import of gua dioxins (OJ L 30, 6	Commission Implementing Regulation (EU) 2015/175 of 5 February 2015 laying down special conditions applicable to the import of guar gum originating in or consigned from India due to contamination risks by pentachlorophenol and dioxins (OJ L 30, 6.2.2015, p. 10).	

		Unsaponifiable ma Trans fatty acids: 2 Docosahexaeonic Eicosapentaenoic	atter: $≤ 5,0 \%$ ≤ 1,0 % acid: ≥ 20 % acid: ≥ 10 %	
Pas	teurised	Parameter	Target	Comments
fruit-b prepar produ high-p	t-based parations duced using 1-pressure	Fruit storage before high- pressure treatment	Minimum 15 days at – 20 °C	Fruit harvested and stored in conjunction with good/hygienic agricultural and manufacturing practices
trea	itment	Fruit added	40 % to 60 % of thawed fruit	Fruit homogenised and added to other ingredients
		рН	3,2 to 4,2	
		° Brix	7 to 42	Assured by added sugars
		a _w	< 0,95	Assured by added sugars
		Final storage	60 days maximum	EquisalEntraxistorange regimen for conventionally processed product
Pho mai	sphated ze starch	Description/Definition: Phosphated maize starch (phosphated distarch phosphate) is a chemically modified resistant starch derived from high amylose starch by combining chemical treatments to create phosphate cross-links between carbohydrate residues and esterified hydroxyl groups. The novel food ingredient is a white or nearly white powder. CAS No: 11120-02-8 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: ≥ 70 % Starch: 7-14 % Protein: ≤ 0,8 % Lipids: ≤ 0,8 % Residual bound phosphorus: ≤ 0,4 % (as phosphorus) 'high amylose maize' as source		
Pho fror	sphatidylseri n fish	n Bescription/Defin The novel food in	ition: predient is vellow t	o brown powder
pho	spholipids	Phosphatidylserine	e is obtained from t	fish phospholipids by an enzymatic
		transphosphorylat	ion with the amino	acid L-serine.
		specification of the fish phospholinid	ne pnospnaticyise s:	rine product manufactured from
		Moisture: < 5,0 %		
		Phospholipids: ≥ 7	75 %	
a	Commission Regul Annexes II and III p. 1).	ation (EU) No 231/2012 o to Regulation (EC) No 133	f 9 March 2012 laying dov 33/2008 of the European P	wn specifications for food additives listed in arliament and of the Council (OJ L 83, 22.3.2012,
b	Commission Implementing Regulation (EU) 2015/175 of 5 February 2015 laying down special conditions applicable to the import of guar gum originating in or consigned from India due to contamination risks by pentachlorophenol and dioxins (OJ L 30, 6.2.2015, p. 10).			

		Phosphatidylserine: \geq 35 %
		Glycerides: < 4,0 %
		Free L-serine: < 1,0 %
		To copherols: $< 0.5 \% (^1)$
		Peroxide value (PV): $< 5,0 \text{ meq } O_2/kg$
		(¹) Tocopherols may be added as antioxidants according to Commission Regulation (EU) No 1129/2011
Ph	osphatidylseri	nDescription/Definition:
fro	m soya ospholipids	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: $< 2,0 \%$ Phospholipids: $\geq 85 \%$ Phosphatidylserine: $\geq 61 \%$ Glycerides: $< 2,0 \%$ free L-serine: $< 1,0 \%$ Tocopherols: $< 0,3 \%$ Phospholipids: $\geq 25 \%$ Phospholipids: $\geq 25 \%$ Phospholipids: $\geq 25 \%$ Phosphatidylserine: $\geq 20 \%$ Glycerides: not applicable free L-serine: $< 1,0 \%$ Tocopherols: $< 0,3 \%$ Phospholipids: $\geq 0.2 \%$ Display the stability of the stability
Ph pro con equ	ospholipid oduct ntaining nal	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
amounts of equal level.		equal level.
ph	osphatidylseri	nopecification of the product:
and Mo		Moisture: $\leq 2,0\%$
ph	osphatidic	Total phospholipids: ≥ 70 %
aci	d	Phosphatidylserine: $\geq 20 \%$
		Phosphatidic acid: $\geq 20 \%$
a	Commission Regul Annexes II and III p. 1).	lation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in to Regulation (EC) No 1333/2008 of the European Parliament and of the Council (OJ L 83, 22.3.2012,
b	Commission Imple to the import of gu dioxins (OJ L 30, 6	menting Regulation (EU) 2015/175 of 5 February 2015 laying down special conditions applicable ar gum originating in or consigned from India due to contamination risks by pentachlorophenol and 5.2.2015, p. 10).

	Glycerides: $\leq 1,0 \%$ Free L-serine: $\leq 1,0 \%$ Tocopherols: $\leq 0,3 \%$	
	Phytosterols: $\leq 2,0 \%$ Silicon dioxide is used with a maximum content of 1,0 %	
Phospholipi from egg yo	des85 % and 100 % pure Phospholipides from egg yolklk	
Phytoglycog	genDescription: White to off-white powder which is an odourless, colourless, flavourless polysaccharide derived from non-GM sweet corn using conventional food processing techniques Definition: Glucose polymer $(C_6H_{12}O_6)n$ with linear linkages of $\alpha(1$ - 4) glycosidic bonds branched every 8 to 12 glucose units by $\alpha(1 - 6)$ glycosidic bonds Specifications: 	
Phytosterols phytostanol	S / 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 % campesterol: < 40 % campesterol: < 30 % brassicasterol: < 3,0 % other sterols/stanols: < 3,0 % 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 kerne	I oilDescription/Definition: Plum kernel oil is a vegetable oil obtained by cold pressing of plum (Prunus domestica) 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	
a Commission Annexes II p. 1).	n Regulation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in and III to Regulation (EC) No 1333/2008 of the European Parliament and of the Council (OJ L 83, 22.3.2012,	
b Commission to the importance dioxins (OJ	Commission Implementing Regulation (EU) 2015/175 of 5 February 2015 laying down special conditions applicable to the import of guar gum originating in or consigned from India due to contamination risks by pentachlorophenol and dioxins (OJ L 30, 6.2.2015, p. 10).	

Cyanhydric acid: maximum 5 mg/kg oil

Potato proteins (coagulated) and hydrolysates thereof	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 <i>Aspergillus niger</i> (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: Lead: $\leq 1,0$ mg/kg Microbiological criteria: Total aerobic plate count: $\leq 10^3$ CFU/g Sulphite reducing anaerobes: ≤ 30 CFU/g Sulphite reducing anaero

 a Commission Regulation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in Annexes II and III to Regulation (EC) No 1333/2008 of the European Parliament and of the Council (OJ L 83, 22.3.2012, p. 1).

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(²) PPU – Prolyl Peptidase Units or Proline Protease Units

Protein extract	Description/Definition:
from pig The protein extract is obtained from homogenised pig kidneys thr	
kidneys	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 Diamin
	Oxidase (DAO). Physical condition: liquid
	Colour: brownish
	Appearance: slightly turbid solution
	pH value: 6 4-6 8
	Enzymatic activity: $> 2 677$ kHDU DAO/ml (DAO REA (DAO
	Radioextractionassay))
	Microbiological criteria:
	Brachyspira spp.: negative (Real Time PCR)
	Listeria monocytogenes: negative (Real Time PCR)
	<i>Staphylococcus aureus</i> : < 100 CFU/g
	Influenza A: negative (Reverse Transcription Real Time PCR)
	<i>Escherichia coli</i> : < 10 CFU/g
	Total aerobic microbiological count: $< 10^{5}$ CFU/g
	Yeasts/moulds count: $< 10^5$ CFU/g
	Salmonella: Absence/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
	Enzymatic activity: 110 220 kHDU DAO/g pellet (DAO REA (DAO
	Radioextractionassay))
	Acid stability 15 min 0 1M HCl followed by 60 min Borat $pH = 9.0^{\circ} > 68$
	kHDU DAO/g pellet (DAO REA (DAO Radioextractionassay))
	Humidity: < 10 %
	Staphylococcus aureus: < 100 CFU/g
	<i>Escherichia coli</i> : < 10 CFU/g
	Total aerobic microbiological count: $< 10^4$ CFU/g
	Total combined veasts/moulds count: $< 10^3$ CFU/g
	Salmonella: Absence/10g
	Bile salt resistant enterobacteriaceae: $< 10^2$ CFU/g

Commission Regulation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in Annexes II and III to Regulation (EC) No 1333/2008 of the European Parliament and of the Council (OJ L 83, 22.3.2012, p. 1).

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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. Purity: Unsaponifiable matter: > 7,0 g/100 g Tocopherols: > 0,8 g/100 g α -tocopherol (%): 30-50 % γ -tocopherol (%): 50-70 % δ -tocopherol (%): < 6,0 % Sterols, triterpenic alcohols, methylsterols: > 5,0 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: < 2,0 % Acid value: \leq 6,0 mg KOH/g Peroxide value (PV): \leq 10 mEq O ₂ /kg Heavy metals: Iron (Fe): $<$ 1 000 µg/kg
	Polycyclic aromatic hydrocarbons (PAH) Benzo(a)pyrene: $< 2 \mu g/kg$ 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.
Rapeseed Protein a a a	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: $\geq 85 \%$ Moisture: $\leq 7,0 \%$ Carbohydrates: $\leq 7,0 \%$ Fat: $\leq 2,0 \%$ Ash: $\leq 4,0 \%$ Fibre: $\leq 0,5 \%$ Total glucosinolates: $\leq 1 \text{ mmol/kg}$ Purity: ation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in

Annexes II and III to Regulation (EC) No 1333/2008 of the European Parliament and of the Council (OJ L 83, 22.3.2012, p. 1).

b Commission Implementing Regulation (EU) 2015/175 of 5 February 2015 laying down special conditions applicable to the import of guar gum originating in or consigned from India due to contamination risks by pentachlorophenol and dioxins (OJ L 30, 6.2.2015, p. 10).

	Total phytate: $\leq 1,5 \%$
	Lead: $\leq 0.5 \text{ mg/kg}$
	Yeast and mould count: $< 100 \text{ CFU/g}$
	Aerobic bacteria count: $\leq 10\ 000\ \text{CFU/g}$
	Total coliform count: $\leq 10 \text{ CFU/g}$
	Escherichia coli: Absence in 10 g
	Salmonella: Absence in 25 g
Trans- resveratrol	Description/Definition: Synthetic <i>Trans</i> -resveratrol is off-white to beige crystals. Chemical name: $5-[(E)-2-(4-hydroxyphenyl)ethenyl]benzene-1,3-diol Chemical formula: C14H12O3$
	Molecular weight: 228,25 Da
	CAS No: 501-36-0
	Purity:
	<i>Trans</i> -resveratrol: \geq 98 %-99 %
	Any single related substance: $\leq 0.1 \%$
	Subhated ash: $< 0.1 \%$
	Loss on drving: $< 0.5 \%$
	Heavy metals:
	Lead: $\leq 1,0$ ppm
	Mercury: ≤ 0.1 ppm
	Arsenic: $\leq 1,0$ ppm
	Impurities:
	Disopropylamine: $\leq 50 \text{ mg/kg}$
	Microbial source: A genetically modified strain of Saccharomyces
	<i>Cerevisiae</i> Appearance: Off white to slight yellow powder
	Particle size: 100 % less than 62.23 um
	Trans-resveratrol content: Min 98 % w/w (dry weight basis)
	Ash: Max 0.5 % w/w
	Moisture: Max. 3 % w/w
Dooston comb	Description/Definition.
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
	Hyaluronic acid: 60-80 %
	Chondroitin sulphate A: $< 5.0 \%$
	Dermatan sulphate (chondroitin sulphate B): $< 25 \%$
	pH: 5,0-8,5
	Purity:
	Chlorides: $\leq 1,0 \%$
a Commission Regul Annexes II and III p. 1).	ation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in to Regulation (EC) No 1333/2008 of the European Parliament and of the Council (OJ L 83, 22.3.2012,
b Commission Imple to the import of gua dioxins (OJ L 30, 6	menting Regulation (EU) 2015/175 of 5 February 2015 laying down special conditions applicable ar gum originating in or consigned from India due to contamination risks by pentachlorophenol and .2.2015, p. 10).

	Nitrogen: $\leq 8,0\%$			
	Heavy metals: $(103 \times 101 \times 1000 \times 10000 \times 1000 \times 1000 \times 1000 \times 10000 \times 10000000 \times 100000000$			
	Mercury: $\leq 0.1 \text{ mg/kg}$			
	Arsenic: $\leq 1.0 \text{ mg/kg}$			
	Cadmium: $\leq 1,0 \text{ mg/kg}$			
Chromium: $\leq 10 \text{ mg/kg}$				
	Lead: $\leq 0,5 \text{ mg/kg}$			
	Microbiological criteria:			
	Total viable aerobic count: $\leq 10^2$ CFU/g			
	Escherichia coli: Absence in 1 g			
	Salmonella: Absence in 1 g			
	Staphylococcus aureus: Absence in I g			
	Pseudomonas aeruginosa: Absence in 1g			
Sacha Inchi oil	Description/Definition:			
from <i>Plukenetia</i>	Sacha inchi oil is a 100 % cold pressed vegetable oil obtained from			
volubilis	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			
	Dupity:			
	Water and Volatiles: $< 0.2 \text{ g}/100 \text{ g}$			
	Impurities insoluble in hexane: $< 0.05 \text{ g}/100 \text{ g}$			
	Oleic acidity: $< 2.0 \text{ g}/100 \text{ g}$			
	Peroxide value (PV): $< 15 \text{ meg } \Omega_2/kg$			
	Trans fatty acids: $< 1.0 \text{ g}/100 \text{ g}$			
	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 ($< 5,0 \text{ mg}/100 \text{ g}$)			
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.			
	Triacylalycerols: $> 87.\%$			
a Commission D1	111acy1g1ycc1015. < 07 /0			
Annexes II and III t p. 1).	to Regulation (EC) No 1333/2008 of the European Parliament and of the Council (OJ L 83, 22.3.2012,			
b Commission Implement to the import of gua dioxins (OJ L 30, 6	menting Regulation (EU) 2015/175 of 5 February 2015 laying down special conditions applicable argum originating in or consigned from India due to contamination risks by pentachlorophenol and .2.2015, p. 10).			

	Diacylglycerols: $\leq 10 \%$ Monoacylglycerols: $\leq 2,0 \%$ 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: $\leq 1,0 \%$ Free fatty acids as oleic acid: $\leq 0,5 \%$ Triacylglycerol profile: Triesters (short/long of 0,5 to 2,0): $\geq 90 \%$ Triesters (short/long = 0): $\leq 10 \%$ Unsaponifiable material: $\leq 1,0 \%$ Moisture: $\leq 0,3 \%$ Ash: $\leq 0,1 \%$ Colour: $\leq 3,5 \text{ Red (Lovibond)}$ Peroxide value (PV): $\leq 2,0 \text{ Meq/Kg}$
<i>Schizochytrium</i> <i>sp.</i> oil rich in DHA and EPA	Acid value: $\leq 0,5 \text{ mg KOH/g}$ Peroxide value (PV): $\leq 5,0 \text{ meq/kg oil}$ Oxidative stability: All food products containing <i>Schizochytrium sp.</i> oil rich in DHA and EPA should demonstrate oxidative stability by appropriate and recognised national/international test methodology (e.g. AOAC) Moisture and volatiles: $\leq 0,05 \%$ Unsaponifiables: $\leq 4,5 \%$ Trans-fatty acids: $\leq 1 \%$ DHA content: $\geq 22,5 \%$ EPA content: $\geq 10 \%$
<i>Schizochytrium</i> sp. (ATCC PTA-9695) oil	Peroxide value (PV): $\leq 5,0$ meq/kg oil Unsaponifiables: $\leq 3,5$ % Trans-fatty acids: $\leq 2,0$ % Free fatty acids: $\leq 0,4$ % Docosapentaenoic acid (DPA) n-6: $\leq 7,5$ % DHA content: ≥ 35 %
<i>Schizochytrium</i> sp. oil	Acid value: $\leq 0.5 \text{ mg KOH/g}$ Peroxide value (PV): $\leq 5.0 \text{ meq/kg oil}$ Moisture and volatiles: $\leq 0.05 \%$ Unsaponifiables: $\leq 4.5 \%$ Trans-fatty acids: $\leq 1.0 \%$ DHA content: $\geq 32.0 \%$
<i>Schizochytrium</i> sp. (T18) oil	Acid value: $\leq 0,5 \text{ mg KOH/g}$ Peroxide value (PV): $\leq 5,0 \text{ meq/kg oil}$ Moisture and volatiles: $\leq 0,05 \%$ Unsaponifiables: $\leq 3,5 \%$ Trans-fatty acids: $\leq 2,0 \%$ Free fatty acids: $\leq 0,4 \%$
a Commission Regul Annexes II and III p. 1).	lation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in to Regulation (EC) No 1333/2008 of the European Parliament and of the Council (OJ L 83, 22.3.2012,
b Commission Implet to the import of gu dioxins (OJ L 30, 6	menting Regulation (EU) 2015/175 of 5 February 2015 laying down special conditions applicable ar gum originating in or consigned from India due to contamination risks by pentachlorophenol and 6.2.2015, p. 10).

DHA content: \geq 35 %

Fermented	Description/Definition:			
soybean extract	Fermented soybean extract is an odourless milk-white coloured powder.			
	resistant dextrin (as carrier) from corn-starch, which is added during the			
	processing. Vitamin K_2 is removed during the manufacturing process			
Fermented soybean extract contains nattokinase isolated from n				
	a foodstuff produced by the fermentation of non-genetically modified			
	soybeans (<i>Glycine max</i> (L.)) with a selected strain of <i>Bacillus subtilis</i> va			
	natto.			
	Nattokinase activity: 20 000 -28 000 Fibrin degradation $unit/g(^1)$			
	Identity: Confirmable			
	Condition: No offensive taste or smell L_{ass} on drains (10.9)			
	Loss on arying: $\geq 10\%$ Vitamin K _a : $< 0.1 \text{ mg/kg}$			
	Heavy metals:			
	Lead: $\leq 5,0 \text{ mg/kg}$			
	Arsenic: \leq 3,0 mg/kg			
	Microbiological criteria:			
	Total viable aerobic count: $\leq 10^3$ CFU(³)/g			
	Yeast and mould: $\leq 10^2 \text{ CFU/g}$			
	Coliforms: \leq 30 CFU/g			
	Spore-forming bacteria: $\leq 10 \text{ CFU/g}$ <i>Escharichia coli</i> : Absence/25 g			
	Salmonella: Absence/25 g			
	<i>Listeria</i> : Absence/25 g			
	$(^1)$ Assay method as described by Takaoka et al. (2010).			
Snormidino	Description/Definition.			
spermiaine-	Description/Definition: Spermidine-rich wheat germ extract is obtained from non-fermented			
germ extract	non-sprouting wheat germs (<i>Triticum aestivum</i>) by the process of solid-			
(Triticum	liquid extraction targeting specifically, but not exclusively polyamines.			
aestivum)	Spermidine: 0,8-2,4 mg/g			
	Spermine: 0,4-1,2 mg/g			
	Spermidine trichloride $< 0,1 \ \mu g/g$ Putroscipe: $< 0.2 \ mg/g$			
	Γ unescine: $< 0.5 \text{ mg/g}$			
	Mycotoxins:			
	Aflatoxins (total): $< 0,4 \ \mu g/kg$			
	Microbiological criteria:			
	Total aerobic bacteria: < 10 000 CFU/g			
	Yeast and moulds: $< 100 \text{ CFU/g}$			
	Salmonella: Absence/25g			
	Listeria monocytogenes: Absence/25g			
a Commission Regul	ation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in			

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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		
Sugar cane	Description/Definition:		
fibre	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 %		
	$Ash: \le 0,3\%$		
	Total Dietary Fibre (AOAC) dry basis (all insoluble): $\geq 95\%$		
	of which: Hemicellulose (20-25 %) and cellulose (70-75 %)		
	Silica (ppm): ≤ 200		
	Protein: 0,0 %		
	Fat: Iface		
	pri. 4-7 Heavy motolse		
	Heavy inicials. Moreovery $(nnm) \le 0.1$		
	Lead $(nnm) \le 1.0$		
	Arsenic (npm): ≤ 1.0		
	Cadmium (npm): < 0.1		
	Microbiological criteria:		
	Yeast and moulds $(CFII/\sigma) < 1000$		
	Salmonella: Absence		
a Commission Regul	ation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in		

Annexes II and III to Regulation (EC) No 1333/2008 of the European Parliament and of the Council (OJ L 83, 22.3.2012, p. 1).

b Commission Implementing Regulation (EU) 2015/175 of 5 February 2015 laying down special conditions applicable to the import of guar gum originating in or consigned from India due to contamination risks by pentachlorophenol and dioxins (OJ L 30, 6.2.2015, p. 10).

Listeria monocytogenes: Absence

Sunflower oil extract	Description/Definition: 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: 8,0 % Phytosterols: 5,5 % Tocopherols: 1,1 %
Dried <i>Tetraselmis</i> <i>chuii</i> microalgae	Description/Definition: The dried product is obtained from the marine microalgae <i>Tetraselmis</i> <i>chuii</i> , belonging to the <i>Chlorodendraceae</i> family, cultivated in sterile sea water in closed photobioreactors insulated from the outside air. Purity/Composition: 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: \leq 7,0 % 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: \leq 15 mg/kg
Therapon barcoo/Scortum a Commission Regul Anneyes II and III	Description/Definition: Scortum/ <i>Therapon barcoo</i> 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: <i>Therapon</i> or <i>Scortum barcoo</i> Composition of fish flesh: Protein (%): 18-25 Moisture (%): 65-75 Ash (%): 0,5-2,0 Energy (KJ/Kg): 6000-11500 Carbohydrates (%): 0,0 Fat (%): 5-15 Fatty acids (mg FA/g fillet): Σ PUFA n-3: 1,2-20,0 Σ PUFA n-6: 0,3-2,0 PUFA n-6: 1,5-15,0
a Commission Regul Annexes II and III p. 1).	2 PUFA n-6: 0,3-2,0 PUFA n-3/n-6: 1,5-15,0 lation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in to Regulation (EC) No 1333/2008 of the European Parliament and of the Council (OJ L 83, 22.3.2012,

b Commission Implementing Regulation (EU) 2015/175 of 5 February 2015 laying down special conditions applicable to the import of guar gum originating in or consigned from India due to contamination risks by pentachlorophenol and dioxins (OJ L 30, 6.2.2015, p. 10).

	Total omega 3 acids: 1,6-40,0 Total omega 6 acids: 2,6-10,0	
D-Tagatose	Description/Definition: Tagatose is produced by isomerization of galactose by means of chemical or enzymatic conversion, or by epimerization of fructose by means of enzymatic conversion. These are single-step conversions. Appearance: White or almost white crystals Chemical name: D-tagatose Synonym: D- <i>lyxo</i> -Hexulose CAS number: 87-81-0 Chemical formula: C ₆ H ₁₂ O ₆ Formula weight: 180,16 (g/mol) Purity: Assay: \geq 98 % on a dry weight basis Loss on drying: \leq 0,5 % (102 °C, 2 hours) Specific Rotation: $[\alpha]_D^{20}$: – 4 to – 5,6° (1 % aqueous solution)(¹) Melting range: 133–137 °C Heavy metals: Lead: \leq 1,0 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. '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 (<i>Larix gmelinii</i> (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: $C_{15}H_{12}O_7$ Molecular mass: 304,25 Da CAS No: 480-18-2 Specifications: <i>Physical parameter</i> Moisture: $\leq 10 \%$ <i>Compound analysis</i> Taxifolin (m/m): $\geq 90,0 \%$ of the dry weight <i>Heavy Metals, Pesticide</i> Load: $\leq 0.5 \mod 10 \%$	
a Commission Regul Annexes II and III p. 1).	ation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in to Regulation (EC) No 1333/2008 of the European Parliament and of the Council (OJ L 83, 22.3.2012,	
b Commission Implet to the import of guidioxins (OJ L 30, 6	menting Regulation (EU) 2015/175 of 5 February 2015 laying down special conditions applicable ar gum originating in or consigned from India due to contamination risks by pentachlorophenol and 5.2.2015, p. 10).	

	Arsenic: $\leq 0,02 \text{ mg/kg}$ Cadmium: $\leq 0,5 \text{ mg/kg}$ Mercury: $\leq 0,1 \text{ mg/kg}$ Dichlorodiphenyltrichloroethane (DDT): $\leq 0,05 \text{ mg/kg}$ Residual solvents Ethanol: $< 5 000 \text{ mg/kg}$ Microbiological criteria Total Plate Count (TPC): $\leq 10^4 \text{ CFU/g}$ Enterobacteria: $\leq 100/\text{g}$ Yeast and Mould : $\leq 100 \text{ CFU/g}$ Escherichia coli: Absence/1 g Salmonella: Absence/10 g Staphylococcus aureus: Absence/1 g Pseudomonas: Absence/1g 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 crystal. T in a quar	n in its hydrated form and during the drying process is a This results on the inclusion of water of crystallisation ntity of 1,5 %.
Trehalose	Description/Definition: A non-reducing disaccharide that consists of two glucose moieties linkes by an α -1,1-glucosidic bond. It is obtained from liquefied starch or from sucrose by a multistep enzymatic process. The commercial product is the dihydrate. Virtually odourless, white or almost white crystals with a sweet taste Synonyms: α,α -trehalose Chemical name: α -D-glucopyranosyl- α -D-glucopyranoside, dihydrate	
a Commission Regul Annexes II and III p. 1).	CAS No.: 6138-2. lation (EU) No 231/2012 o to Regulation (EC) No 13.	6-4 (dinydrate) of 9 March 2012 laying down specifications for food additives listed in 33/2008 of the European Parliament and of the Council (OJ L 83, 22.3.2012,
b Commission Imple to the import of guidioxins (OJ L 30, 6	menting Regulation (EU) ar gum originating in or co 5.2.2015, p. 10).	2015/175 of 5 February 2015 laying down special conditions applicable onsigned from India due to contamination risks by pentachlorophenol and

Changes to legislation: There are	currently no kn	own outstanding effects for the
Commission Implementing Regulation	(EU) 2018/102.	3. (See end of Document for details)

	Chemical formula: $C_{12}H_{22}O_{11} \cdot 2H_2O$ (dihydrate)
1	Formula weight: 3/8,33 (dihydrate)
1	Assay: \geq 98 % on the dry basis Determine using an atomic absorption technique appropriate to the
נ פ ן	specified level. The selection of sample size and method of sample preparation may be based on the principles of the method described in ENP 5 (1) Instrumental methods?
נ ק	Mathad 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
	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 mm
-	— diameter: 10 mm — temperature: 50 °C
1	flow rate: 0.4 ml/min
]	Injection volume: 8 µl
] 5	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
(Calculate the quantity, in mg, of trehalose in 1 ml of the sample solution
	% trehalose = $100 \times (R_U/R_S) (W_S/W_U)$
v	where
]	R _S = peak area of trehalose in the standard preparation R _U = peak area of trehalose in the sample preparation W = weight in mg of trehalose in the standard preparation
	W_S = weight in hig of trenatose in the standard preparation W_{11} = weight of dry sample in mg
]	Characteristics:
5	Solubility: Freely soluble in water, very slightly soluble in ethanol
S	Specific rotation: $[\alpha]_D^{2\nu} = +179^{\circ}$ (5 % aqueous solution, dihydrate),
-]]	+199° (5 % aqueous solution, anhydrous substance) Melting point: 97 °C (dihydrate) Purity:
ion Regulat	ion (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in Regulation (EC) No 1333/2008 of the European Parliament and of the Council (OLL 83, 22,3,2012)

Commiss Annexes a

Commission Implementing Regulation (EU) 2015/175 of 5 February 2015 laying down special conditions applicable to the import of guar gum originating in or consigned from India due to contamination risks by pentachlorophenol and dioxins (OJ L 30, 6.2.2015, p. 10). b

p. 1).

	Loss on drying: $\leq 1,5 \%$ (60 °C, 5h) Total ash: $\leq 0,05 \%$ Heavy metals:
	Lead: $\leq 1,0 \text{ mg/kg}$
UV treated mushrooms (<i>Agaricus</i> <i>bisporus</i>)	Description/Definition: Commercially grown <i>Agaricus bisporus</i> to which UV light treatment is applied to harvested mushrooms. UV radiation: a process of radiation in ultraviolet light within the wavelength of 200-800 nm. Vitamin D₂: Chemical name: $(3\beta,5Z,7E,22E)-9,10$ -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 ₂ in the final product: 5-10 µg/100 g 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 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 Microbiological criteria for the yeast concentrate: Coliforms: $\leq 10^{3}/q$
	Escherichia coli: $\leq 10/g$ Salmonella: Absence 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 D_2 (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/cm ² . Vitamin D ₂ :
	Chemical name: (5Z,7E,22E)-3S-9,10-secoergosta-5,7,10(19),22- tetraen-3-ol Synonym: Ergocalciferol
a Commission Regul Annexes II and III p. 1).	ation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in to Regulation (EC) No 1333/2008 of the European Parliament and of the Council (OJ L 83, 22.3.2012,
b Commission Imple to the import of gua dioxins (OJ L 30, 6	menting Regulation (EU) 2015/175 of 5 February 2015 laying down special conditions applicable ar gum originating in or consigned from India due to contamination risks by pentachlorophenol and .2.2015, p. 10).

	CAS No: 50-14-6 Molecular weight: 396,65 g/mol Contents:Vitamin D2 (ergocalciferol) in the final product: 0,75-3 μ g/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 D3 (cholecalciferol)
Vitamin K ₂ (menaquinone)	This novel food is produced by a synthetic or microbiological process. 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 containing primarily MK-7 and to a smaller extent MK-6.
a Commission Regul Annexes II and III p. 1).	ation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in to Regulation (EC) No 1333/2008 of the European Parliament and of the Council (OJ L 83, 22.3.2012,
b Commission Imple to the import of gua dioxins (OJ L 30, 6	menting Regulation (EU) 2015/175 of 5 February 2015 laying down special conditions applicable ar gum originating in or consigned from India due to contamination risks by pentachlorophenol and .2.2015, p. 10).



Annexes II and III to Regulation (EC) No 1333/2008 of the European Parliament and of the Council (OJ L 83, 22.3.2012, p. 1).

b Commission Implementing Regulation (EU) 2015/175 of 5 February 2015 laying down special conditions applicable to the import of guar gum originating in or consigned from India due to contamination risks by pentachlorophenol and dioxins (OJ L 30, 6.2.2015, p. 10).

	Fungi: Max 100/g Salmonella: Absence in 25g
	Bacillus cereus: Max 1000/g
	Clostridium perfringens: Max 1000/g
Yeast beta- glucans	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)- β -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 <i>Saccharomyces cerevisiae</i> . 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 three different forms: soluble, insoluble and insoluble in water, but dispersible in many liquid matrices. Chemical characteristics yeast (<i>Saccharomyces cerevisiae</i>) beta- glucans: Soluble form: Total carbohydrates: > 75 % Beta-glucans (1.3/1.6): > 75 %
	Total carbohydrates: > 75 % Beta-glucans (1,3/1,6): > 75 % Ash: < 4,0 % Moisture: < 8,0 %
	Protein: < 3,5 % Fat: < 10 %
	Total carbohydrates: $> 70 \%$ Beta-glucans (1,3/1,6): $> 70 \%$
	Asin: ≤ 12.76 Moisture: $< 8,0.\%$ Protein: $< 10.\%$ Fat: $< 20.\%$
	Insoluble in water, but dispersible in many liquid matrices: (1,3)-(1,6)-β-D-Glucans: > 80 % Ash: < 2,0 % Moisture: < 6.0 %
	Protein: < 4,0 % Total fat: < 3,0 % <i>Microbiological data for insoluble in water, but dispersible in many</i>
	<i>liquid matrices:</i> Total plate count: < 1 000 CFU/g Enterobacteriaceae: < 100 CFU/g
a Commission Page	Iotal colliforms: < 10 CFU/g Yeast: < 25 CFU/g Mould: < 25 CFU/g

 a Commission Regulation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in Annexes II and III to Regulation (EC) No 1333/2008 of the European Parliament and of the Council (OJ L 83, 22.3.2012, p. 1).

b Commission Implementing Regulation (EU) 2015/175 of 5 February 2015 laying down special conditions applicable to the import of guar gum originating in or consigned from India due to contamination risks by pentachlorophenol and dioxins (OJ L 30, 6.2.2015, p. 10).

	Salmonella: Absence in 25 g Escherichia coli: Absence in 1 g Bacillus cereus: < 100 CFU/g Staphylococcus aureus: Absence in 1 g Heavy metals for insoluble in water, but dispersible in many liquid matrices: Lead: < 0,2 mg/g Arsenic: < 0,2 mg/g Mercury: < 0,1 mg/g Cadmium: < 0,1 mg/g
Zeaxanthin	Description/Definition: Zeaxanthin is a naturally occurring xanthophyll pigment, it is an oxygenated carotenoid. The 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. 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 % <i>All</i> -trans zeaxanthin: > 96 % Cis-zeaxanthin: < 2.0 %
	Other carotenoids: < 1,5 % Triphenylphosphine oxid (CAS No 791-28-6): < 50 mg/kg
Zinc L-pidolate	Description/Definition: Zinc L-pidolate is a white to off-white powder, with characteristic odour. 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 Molecular formula: $(C_5 H_6 NO_3)_2 Zn$ Relative anhydrous molecular mass: 321,4 Appearance: White to slightly white powder Purity: Zinc L-pidolate (purity): $\geq 98 \%$ pH (10 % aqueous sol.): 5,0-6,0 Specific rotation: 19,6°- 22,8° Water: $\leq 10,0 \%$ Glutamic acid: $< 2,0 \%$ Heavy metals: Lead: $\leq 3,0$ ppm Arsenic: ≤ 2.0 ppm
a Commission Pogul	ation (FUI) No 231/2012 of 0 March 2012 laying down specifications for food additives listed in

 a Commission Regulation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in Annexes II and III to Regulation (EC) No 1333/2008 of the European Parliament and of the Council (OJ L 83, 22.3.2012, p. 1).

Commission Implementing Regulation (EU) 2015/175 of 5 February 2015 laying down special conditions applicable to the import of guar gum originating in or consigned from India due to contamination risks by pentachlorophenol and dioxins (OJ L 30, 6.2.2015, p. 10).

Cadmium: $\leq 1,0$ ppm Mercury: $\leq 0,1$ ppm **Microbiological criteria:** Total viable mesophilic count: $\leq 1\ 000\ CFU/g$ Yeasts and moulds: $\leq 100\ CFU/g$ Pathogen: Absence

Commission Regulation (EU) No 231/2012 of 9 March 2012 laying down specifications for food additives listed in Annexes II and III to Regulation (EC) No 1333/2008 of the European Parliament and of the Council (OJ L 83, 22.3.2012, p. 1).

b Commission Implementing Regulation (EU) 2015/175 of 5 February 2015 laying down special conditions applicable to the import of guar gum originating in or consigned from India due to contamination risks by pentachlorophenol and dioxins (OJ L 30, 6.2.2015, p. 10).

(**1**) OJ L 327, 11.12.2015, p. 1.

- (2) Regulation (EC) No 258/97 of the European Parliament and of the Council of 27 January 1997 concerning novel foods and novel food ingredients (OJ L 43, 14.2.1997, p. 1).
- (3) Commission Implementing Regulation (EU) 2017/2470 of 20 December 2017 establishing the Union list of novel foods in accordance with Regulation (EU) 2015/2283 of the European Parliament and of the Council on novel foods (OJ L 351, 30.12.2017, p. 72).
- (4) Commission Implementing Decision (EU) 2016/375 of 11 March 2016 authorising the placing on the market of lacto-N-neotetraose as a novel food ingredient under Regulation (EC) No 258/97 of the European Parliament and of the Council (OJ L 70, 16.3.2016, p. 22).
- (5) Letter of 8 May 2015 (https://ec.europa.eu/food/sites/food/files/safety/docs/novelfood authorisation 2015 auth-letter krill-oil en.pdf)
- (6) Commission Decision 2009/827/EC of 13 October 2009 authorising the placing on the market of Chia seed (*Salvia hispanica*) as novel food ingredient under Regulation (EC) No 258/97 of the European Parliament and of the Council (OJ L 294, 11.11.2009, p. 14).
- (7) Commission Implementing Decision 2014/423/EU of 1 July 2014 authorising the placing on the market of citicoline as a novel food ingredient under Regulation (EC) No 258/97 of the European Parliament and of the Council (OJ L 196, 3.7.2014, p. 24).
- (8) Commission Decision 2009/345/EC of 22 April 2009 authorising the placing on the market of Vitamin K₂ (menaquinone) from *Bacillus subtilis* natto as a novel food ingredient under Regulation (EC) No 258/97 of the European Parliament and of the Council (OJ L 105, 25.4.2009, p. 16).
- (9) Commission Implementing Decision 2011/762/EU of 24 November 2011 authorising the placing on the market of yeast beta-glucans as a novel food ingredient under Regulation (EC) No 258/97 of the European Parliament and of the Council (OJ L 313, 26.11.2011, p. 41).
- (10) Commission Decision 2004/333/EC of 31 March 2004 authorising the placing on the market of yellow fat spreads, salad dressings, milk type products, fermented milk type products, soya drinks and cheese type products with added phytosterols/phytostanols as novel foods or novel food ingredients under Regulation (EC) No 258/97 of the European Parliament and of the Council (OJ L 105, 14.4.2004, p. 40).
- (11) Commission Decision 2008/968/EC of 12 December 2008 authorising the placing on the market of arachidonic acid-rich oil from *Mortierella alpina* as a novel food ingredient under Regulation (EC) No 258/97 of the European Parliament and of the Council (OJ L 344, 20.12.2008, p. 123).

Changes to legislation:

There are currently no known outstanding effects for the Commission Implementing Regulation (EU) 2018/1023.