

ANNEX I

Annex I to Implementing Regulation (EU) 2021/1165 is amended as follows:

(1) in point 2, the table is amended as follows:

(a) the following entry is inserted between the entries ‘16D’ and ‘20D’:

‘19D	23960-07-8	Lavandulyl senecioate’	
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(b) the following entries are added after the entry for other low risk substances from plant or animal origin *:

‘32D	298-14-6	Potassium hydrogen carbonate	
38D		Straight chain lepidopteran pheromones (acetates)	
39D	98999-15-6	Sheep fat	use as repellent by smell
44D	14808-60-7 and 7631-86-9	Quartz sand Silicon dioxide’	

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(2) in point 4, the table is amended as follows:

(a) the entries ‘244A’, ‘247A’, ‘249A’ and ‘255A and others’ are deleted;

(b) the following entry is inserted between the entries ‘47B’ and ‘10E’:

‘153B and others		Pheromones and other semiochemicals’	
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ANNEX II

Annex II to Implementing Regulation (EU) 2021/1165 is amended as follows:

(1) in the table, the entry ‘products and by-products of plant origin for fertilisers’ is replaced by the following:

‘Products and by-products of plant origin’	e.g., oilseed cake meal, cocoa husks, malt culms’
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(2) in the table, the entry ‘stone meal, clays and clay minerals’ is replaced by the following:

‘Stone meal, sand of natural origin, clays and clay minerals’	e.g., perlite, sand and vermiculite, including when heat treated, perlite, sand and vermiculite, including when heat treated, may also be used for sprouted seeds production as an inert medium as referred to in Part I, point 1.3(a), of Annex II to Regulation (EU) 2018/848’
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(3) in the table, the following entries are added after the entry ‘selenium salts’:

‘Carbon dioxide’	use for enrichment of water for algae production on land in closed systems; in this case, carbon dioxide shall be of food grade when available, carbon dioxide shall be obtained as a by-product of other processes or from renewable sources pursuant to Directive (EU) 2018/2001 of the European Parliament and of the Council (*) may also be used in greenhouse production
Calcium acetate	only for foliar application on vegetables in greenhouses and on apple trees to prevent deficiency in calcium obtained from calcium carbonate of natural origin
Calcium phosphate	only when derived from sewage sludge ash only products complying with the requirements of Regulation (EU) 2019/1009
Plant fibre mats	plant-based fibres, such as hemp fibre, flax fibre, coconut fibre with no addition of any fertiliser, soil conditioner or nutrient nor additives or binders, only mechanically manufactured only for sprouted seeds production as an inert medium referred to in Part I, point 1.3(a), of Annex II to Regulation (EU) 2018/848 when available, materials from organic production shall be used

Calcium and magnesium gluconate	derived from microbial fermentation
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- (*) Directive (EU) 2018/2001 of the European Parliament and of the Council of 11 December 2018 on the promotion of the use of energy from renewable sources (OJ L 328, 21.12.2018, p. 82, ELI: <http://data.europa.eu/eli/dir/2018/2001/oj>).

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ANNEX III

Annex III to Implementing Regulation (EU) 2021/1165 is amended as follows:

(1) Part A is amended as follows:

(a) in point (1), in the table, the entry ‘11.1.6’ is replaced by the following:

‘11.1.6	Calcium chloride	<p>may only be used as “feed intended for particular nutritional purposes” defined in Article 3(2), point (o), of Regulation (EC) No 767/2009 for the reduction of the risk of milk fever and subclinical hypocalcaemia in accordance with Part B, table entry “60”, of the Annex to Commission Regulation (EU) 2020/354 (*), including bolus formulation</p> <p>calcium chloride when purified from naturally occurring brine, if available</p> <p>only for dairy cows in need and for a limited period</p>
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(*) Commission Regulation (EU) 2020/354 of 4 March 2020 establishing a list of intended uses of feed intended for particular nutritional purposes and repealing Directive 2008/38/EC (OJ L 67, 5.3.2020, p. 1, ELI: <http://data.europa.eu/eli/reg/2020/354/oj>).’;

(b) in point (2), the table is amended as follows:

(i) the following entries are inserted between the entries ‘12.1.5’ and ‘12.1.12’:

‘ex 12.1.9	Single cell proteins from <i>Trichoderma viride</i> and <i>Aspergillus oryzae</i>	<p>only from non-GM strain and culture media not obtained from substrates with synthetic nitrogen sources</p> <p>obtained from substrates coming from organic production when used for ruminants and other herbivores</p> <p>when used, antifoaming agents shall be authorised for organic production</p>
12.1.10	Products from <i>Bacillus subtilis</i> rich in protein	<p>only from non-GM strain and culture media not obtained from substrates with synthetic nitrogen sources</p> <p>obtained from substrates coming from organic production when used for ruminants and other herbivores</p>

		when used, antifoaming agents shall be authorised for organic production'
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- (ii) the following entry is inserted between the entries '12.1.12' and '13.11.1':

'ex 13.6.4	Calcium stearate'	
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- (iii) the entry '13.11.1' is replaced by the following:

'13.11.1	Propylene glycol; [1,2-propanediol]; [propane-1,2-diol]	may only be used as "feed intended for particular nutritional purposes" defined in Article 3(2), point (o), of Regulation (EC) No 767/2009 for the reduction of the risk of ketosis in accordance with Part B, table entry "61", of the Annex to Regulation (EU) 2020/354, including bolus formulation only for dairy cows, ewes and goats in need and for a limited period'
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(2) Part B is amended as follows:

- (a) in point (1)(a), the table is replaced by the following:

'ID number or functional group	Name	Specific conditions and limits
1a200	Sorbic acid	
1k236	Formic acid	
1k237i	Sodium formate	
1a260	Acetic acid	
1a270 1a270i	Lactic acids	
1k280	Propionic acid	
1a282	Calcium propionate	may only be used as "feed intended for particular nutritional purposes" defined in Article 3(2), point (o), of Regulation (EC) No 767/2009 for the reduction of the risk of milk fever and subclinical hypocalcaemia in accordance with Part B, table entry "60", of the Annex to Regulation (EU) 2020/354, including bolus formulation

		only for dairy cows in need and for a limited period
1a330	Citric acid'	

;

(b) in point (1)(c), in the table, the entry '1c322, 1c322i' is replaced by the following:

'1c322, 1c322i	Lecithins	derived from organic raw material from 1 January 2027, only from organic production'
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(c) in point (3)(b), the table is amended as follows:

(i) the following entry is inserted between the entries '3b104' and '3b107':

'3b105	Iron(II) fumarate	may only be used as "feed intended for particular nutritional purposes" defined in Article 3(2), point (o), of Regulation (EC) No 767/2009 for compensation of insufficient iron availability after birth in accordance with Part B, table entry "64", of the Annex to Regulation (EU) 2020/354 only for suckling piglets in need and for a limited period'
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(ii) the entry '3b110' is replaced by the following:

'3b110	Iron(II) dextran 10 %	may only be used as "feed intended for particular nutritional purposes" defined in Article 3(2), point (o), of Regulation (EC) No 767/2009 for compensation of insufficient iron availability after birth in accordance with Part B, table entry "64", of the Annex to Regulation (EU) 2020/354 growing medium for the fermentation process for dextran shall be of non-GMO origin only for suckling piglets in need and for a limited period'
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(d) the following point is added:

'(5) PROCESSING AIDS

For processing aids as defined in Article 2(2), point (h), of Regulation (EC) No 1831/2003, the specific conditions and limits set out in the following table shall apply.

Name	Specific conditions and limits
Ethanol	to be used only as extraction solvent for the production of protein meals and only when protein meals from mechanical extraction are not available in sufficient quantities

	<p>only from fermentation if available</p> <p>only from organic production if available</p>
Papain	<p>only for the production of flavouring innards for the manufacture of pet food that are defined in point 18 of Annex I to Regulation (EU) No 142/2011</p> <p>provided that the enzyme is inactivated during the process and therefore is not present as such in the resulting flavouring innards and does not have any technological effect on the product</p> <p>from 1 January 2027, only from organic raw material'</p>

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ANNEX IV

Annex V to Implementing Regulation (EU) 2021/1165 is amended as follows:

(1) Part A is replaced by the following:

‘PART A

Authorised food additives and processing aids referred to in Article 24(2), point (a), of Regulation (EU) 2018/848, including carriers and other substances used in the same way and with the same purpose as processing aids

The organic foodstuffs to which food additives may be added are within the limit of authorisations given in accordance with Regulation (EC) No 1333/2008.

The specific conditions and limits set out in the table below shall apply in addition to the conditions of the authorisations under Regulation (EC) No 1333/2008.

The use as food additives or as processing aids shall be attributed on a case-by-case basis in accordance with Regulation (EC) No 1333/2008 and national legislation on processing aids.

For the purpose of the calculation of the percentages referred to in Article 30(5) of Regulation (EU) 2018/848, food additives marked with an asterisk in the column “E-number or Eines, or both” shall be calculated as ingredients of agricultural origin.

E-number or Eines (+), or both	Name	Organic foodstuffs in which the additive or processing aid may be used and specific conditions and limits	
		Use as an additive	Use as a processing aid
E 153	Vegetable carbon	edible cheese rind of ashy goat cheese	
		Morbier cheese	
E 160b(i)*	Annatto bixin	Red Leicester cheese	
		Double Gloucester cheese	
		Cheddar	
		Mimolette cheese	
E 160b(ii)*	Annatto norbixin	Red Leicester cheese	
		Double Gloucester cheese	
		Cheddar	
		Mimolette cheese	
E 170/207-439-9 and 215-279-6	Calcium carbonate	products of plant and animal origin	products of plant origin
E 220	Sulphur dioxide	fruit wines (wine made from fruits other than grapes, including cider and perry) and mead with and without added sugar	

		100 mg/l (maximum levels available from all sources, expressed as SO ₂ in mg/l)	
E 223	Sodium metabisulphite	crustaceans	
E 224	Potassium metabisulphite	fruit wines (wine made from fruits other than grapes, including cider and perry) and mead with and without added sugar 100 mg/l (maximum levels available from all sources, expressed as SO ₂ in mg/l)	
E 250	Sodium nitrite	meat products may only be used, if it has been demonstrated to the satisfaction of the competent authority that no technological alternative, giving the same guarantees and/or allowing to maintain the specific features of the product, is available not in combination with E252 maximum amount that may be added during the manufacturing expressed as NO ₂ ion: 50 mg/kg maximum residual amount from all sources for the product ready for marketing throughout the shelf life of the product expressed as NO ₂ ion: 30 mg/kg	
E252	Potassium nitrate	meat products may only be used, if it has been demonstrated to the satisfaction of the competent authority that no technological alternative, giving the same guarantees and/or allowing to maintain the specific features of the product, is available	

		<p>not in combination with E250</p> <p>maximum amount that may be added during the manufacturing expressed as NO₃ ion: 55 mg/kg</p> <p>maximum residual amount from all sources for the product ready for marketing throughout the shelf life of the product expressed as NO₃ ion: 35 mg/kg</p>	
E 267*	Buffered vinegar	<p>products of plant and animal origin</p> <p>only from organic production</p>	
E 270/200-018-0	Lactic acid	products of plant and animal origin	<p>cheese</p> <p>for the regulation of pH of the brine bath in cheese production</p>
E 290/204-696-9	Carbon dioxide	products of plant and animal origin	products of plant and animal origin
E 296	Malic acid	products of plant origin	
E 300	Ascorbic acid	<p>products of plant origin</p> <p>meat products (category 08.3 (++) and meat preparations (category 08.2 (++)) to which other ingredients than additives or salt have been added</p>	
E 301	Sodium ascorbate	<p>meat products</p> <p>may only be used in connection with nitrates and nitrites</p>	
E 306*	Tocopherol-rich extract	<p>products of plant and animal origin</p> <p>only as antioxidant</p>	
E 322*	Lecithins	products of plant and animal origin	

		only from organic production	
E 325	Sodium lactate	products of plant origin	
		milk-based products	
		meat products	
E 330/201-069-1	Citric acid	products of plant and animal origin	products of plant and animal origin
E 331	Sodium citrates	products of plant and animal origin	
E 333	Calcium citrates	products of plant origin	
E 334	Tartaric acid (L(+)-)	products of plant origin	
		mead	
E 335*	Sodium tartrates	products of plant origin from 1 January 2027, only from organic production	
E 336*	Potassium tartrates	products of plant origin from 1 January 2027, only from organic production	
E 337*	Potassium sodium tartrate	products of plant origin from 1 January 2027, only from organic production	
E 341(i)	Monocalcium phosphate	self-raising flour	
		only as raising agent	
E 392*	Extracts of rosemary	products of plant and animal origin only from organic production	
E 400	Alginic acid	products of plant origin	
		milk products	
E 401	Sodium alginate	products of plant origin	
		milk products	
		sausages based on meat	
E 402	Potassium alginate	products of plant origin	
		milk-based products	
E 406	Agar	products of plant origin	

		milk-based products	
		meat products	
E 407	Carrageenan	products of plant origin	
		milk-based products	
E 410*	Locust bean gum	products of plant and animal origin	
		only from organic production	
E 412*	Guar gum	products of plant and animal origin	
		only from organic production	
E 414*	Arabic gum	products of plant and animal origin	
		only from organic production	
E 415	Xanthan gum	products of plant and animal origin	
E 417*	Tara gum	products of plant and animal origin	
		only from organic production	
		only as thickener	
E 418*	Gellan gum	products of plant and animal origin	
		from organic production, if available	
		only high-acyl form	
E 422*	Glycerol	plant extracts and flavourings	
		only from plant origin	
		only from organic production	
		as solvent and carrier	
		as humectant in gel capsules	

		as surface coating of tablets	
E 440(i)*	Pectin	products of plant origin	
		milk-based products	
E 460/232-674-9	Cellulose	gelatine	gelatine
			products of plant origin
E 464	Hydroxypropyl methyl cellulose	products of plant and animal origin only as encapsulation material for capsules	
E 500/207-838-8, 205-633-8, 208-580-9	Sodium carbonates	products of plant and animal origin	products of plant and animal origin
E 501/209-529-3, 206-059-0	Potassium carbonates	products of plant origin	grapes only as drying agent to produce dried grapes
E 503	Ammonium carbonates	products of plant origin	
E 504	Magnesium carbonates	products of plant origin	
E 509/233-140-8	Calcium chloride	products of plant origin only to induce coagulation	products of plant origin only as clarifying/flocculating agent
		milk-based products only as stabiliser	
		sausages based on meat only to induce coagulation to form casing	
E 511/232-094-6	Magnesium chloride	products of plant origin only to induce coagulation	products of plant origin only as clarifying/flocculating agent
E 516/231-900-3	Calcium sulphate	products of plant origin only as carrier or to induce coagulation	products of plant origin only as clarifying/flocculating agent

E 524/215-185-5	Sodium hydroxide	surface-treated <i>Laugengebäck</i>	sugar(s)
		only as surface treatment	
		flavourings only as acidity regulator	oil from plant origin excluding olive oil
			plant protein extracts
E 551/231-545-4	Silicon dioxide	cocoa	products of plant origin
		only as anticaking agent for use in automated dispensing machines	
		herbs and spices in dried powdered form	
		flavourings	
		propolis	
E 553b	Talc	products of plant origin	products of plant origin
		sausages based on meat only as surface treatment	
E 901*/232-383-7	Beeswax	confectionery	products of plant origin
		only from organic production only as glazing agent	only from organic production only as releasing agent
E 903*/232-399-4	Carnauba wax	confectionery	products of plant origin
		only from organic production only as glazing agent	only from organic production

		<p>citrus fruit</p> <p>only from organic production</p> <p>only as mitigating method for mandatory extreme cold treatment of fruit against harmful organisms in accordance with Commission Implementing Regulation (EU) 2019/2072 ⁽⁺⁺⁺⁾</p>	only as releasing agent
E 938	Argon	products of plant and animal origin	
E 939	Helium	products of plant and animal origin	
E 941/231-783-9	Nitrogen	products of plant and animal origin	products of plant and animal origin
E 948	Oxygen	products of plant and animal origin	
E 968*	Erythritol	<p>products of plant and animal origin</p> <p>only from organic production without using ion exchange technology</p>	
-/200-578-6	Ethanol		<p>products of plant and animal origin</p> <p>only as extraction solvent</p>
-/200-580-7	Acetic acid		<p>products of plant origin</p> <p>from organic production, if available</p> <hr/> <p>fish</p> <p>from organic production, if available</p>
-/215-108-5	Bentonite		products of plant origin

			mead only as sticking agent
-/215-137-3	Calcium hydroxide		products of plant origin
-/231-595-7	Hydrochloric acid		gelatine Gouda, Edam and Maasdammer cheeses, Boerenkaas, Friese and Leidse Nagelkaas only as regulation of the pH of the brine bath in the processing of cheeses
-/231-639-5	Sulphuric acid		gelatine sugar(s)
-/231-765-0	Hydrogen peroxide		gelatine
-/232-554-6	Gelatine		products of plant origin
-/232-555-1	Casein		products of plant origin
-/293-292-6	Isinglass		products of plant origin
-/931-328-0	Activated carbon		products of plant and animal origin
	Ammonium hydroxide		gelatine
	Diammonium phosphate		fruit wines, cider, perry and mead
	L(+)lactic acid from fermentation		plant protein extracts
	Thiamin hydrochloride		fruit wines, cider, perry and mead
	Diatomaceous earth		products of plant origin gelatine
	Egg white albumin		products of plant origin
	Hop extract		products of plant

			origin from organic production, if available only for antimicrobial purposes
	Hazelnut shells		products of plant origin
	Perlite		products of plant origin gelatine
	Pine rosin extract		products of plant origin from organic production, if available only for antimicrobial purposes
	Rice meal		products of plant origin
	Tannic acid		products of plant origin only as filtration aid
	Vegetable oils		products of plant and animal origin only from organic production only as greasing, releasing or antifoaming agent
	Vinegar		products of plant origin only from organic production

			fish only from organic production
	Water		products of plant and animal origin water intended for human consumption within the meaning of Directive (EU) 2020/2184 of the European Parliament and of the Council (****)
	Wood fibre		products of plant and animal origin the source of timber shall be restricted to certified, sustainably harvested wood wood used shall not contain toxic components (post-harvest treatment, naturally occurring toxins or toxins from microorganisms)

(⁺) European Inventory of Existing Commercial Chemical Substances (OJ C 146, 15.6.1990, p. 4).

(⁺⁺) Food categories in Part D of Annex II to Regulation (EC) No 1333/2008 of the European Parliament and of the Council of 16 December 2008 on food additives (OJ L 354, 31.12.2008, p. 16, ELI: <http://data.europa.eu/eli/reg/2008/1333/oj>).

(⁺⁺⁺) Commission Implementing Regulation (EU) 2019/2072 of 28 November 2019 establishing uniform conditions for the implementation of Regulation (EU) 2016/2031 of the European Parliament and the Council, as regards protective measures against pests of plants, and repealing Commission Regulation (EC) No 690/2008 and amending

Commission Implementing Regulation (EU) 2018/2019 (OJ L 319, 10.12.2019, p. 1, ELI: http://data.europa.eu/eli/reg_impl/2019/2072/oj).

(⁺⁺⁺⁺) Directive (EU) 2020/2184 of the European Parliament and of the Council of 16 December 2020 on the quality of water intended for human consumption (OJ L 435, 23.12.2020, p. 1, ELI: <http://data.europa.eu/eli/dir/2020/2184/oj>).’;

(2) in Part C, in the table, the following entry is added after the entry ‘vegetable oils’:

‘Fermentation activators	X		nutrients from yeast extract or autolysate up to 5 % of the substrate calculated in weight of dry matter’
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(3) in Part D, the table is amended as follows:

(a) the entry ‘yeasts for wine production’ is replaced by the following:

‘Yeasts for wine production		Part A, Table 2, point 1.11 Part A, Table 2, point 9.1	for the individual yeast strains, organic if available’
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(b) the entry ‘lactic acid bacteria’ is replaced by the following:

‘Lactic acid bacteria		Part A, Table 2, point 1.12 Part A, Table 2, point 9.2’	
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ANNEX V

‘ANNEX VI

Products and substances authorised for use in organic production in third countries and in the outermost regions of the Union pursuant to Article 45(2) of Regulation (EU) 2018/848

PART A

Products and substances authorised for use in organic production in third countries

Active substances to be used in plant protection products

Active substances listed in the table below may be used in organic production in third countries, provided that they comply with the relevant third country legislation, are exempted from maximum residue levels in accordance with Codex Alimentarius guidelines CXG 97-2022 (*), are included in Annex IV to Regulation (EC) No 396/2005 of the European Parliament and of the Council (**), or specific maximum residue levels have been set in that Regulation. They are subject to the corresponding specific conditions and limits set out in that table.

CAS number	Name of the active substance	Specific conditions and limits
	Microorganisms including viruses, when used as biological control agents	not from GMO origin not produced by using growing media of GMO origin
74-85-1	Ethylene	for flower induction in pineapple

(*) <https://www.fao.org/fao-who-codexalimentarius/codex-texts/guidelines/en>.

(**) Regulation (EC) No 396/2005 of the European Parliament and of the Council of 23 February 2005 on maximum residue levels of pesticides in or on food and feed of plant and animal origin and amending Council Directive 91/414/EEC (OJ L 70, 16.03.2005, p. 1, ELI: <http://data.europa.eu/eli/reg/2005/396/oj>).

PART B

Products and substances authorised for use in organic production in the outermost regions of the Union

Active substances to be used in plant protection products

Active substances listed in the table below may be used in organic production in the outermost regions of the Union, provided that they comply with the relevant provisions of Union law and, where applicable, with national provisions based on Union law.’