

*Status: This is the original version (as it was originally adopted).*

## ANNEX I

### Additives referred to in Article 1(1)

#### PART A

#### *Feed additives to be withdrawn for all species and categories of animals*

<b>Identification Number</b>	<b>Additive</b>	<b>Species or category of animals</b>
<b>Preservatives</b>		
E 201	Sodium sorbate	All species
E 203	Calcium sorbate	All species
E 261	Potassium acetate	All species
E 283	Potassium propionate	All species
E 333	Calcium citrates	All species
E 334	L-Tartaric acid	All species
E 335	Sodium L-tartrates	All species
E 336	Potassium L-tartrates	All species
E 337	Potassium sodium L-tartrate	All species
E 507	Hydrochloric acid	All species
E 513	Sulphuric acid	All species
<b>Antioxidants</b>		
E 308	Synthetic gamma tocopherol	All species
E 309	Synthetic delta tocopherol	All species
E 311	Octyl gallate	All species
E 312	Dodecyl gallate	All species
<b>Binders, anti-caking agents and coagulants</b>		
E 330	Citric acid	All species
<b>Colourants, including pigments</b>		
<b>Other colourants</b>		
<i>Relevant E number</i>	Colouring agents authorised for colouring foodstuffs by Community rules, with the exception of Allura Red E 129; Brilliant Black PN E 151; Brilliant Blue FCF E 133; Caramel colours E150b, E150c and E150d; Chlorophyllin Copper Complex E 141; Erythrosine E 127; Indigotine E 132;	All species

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	Iron Oxide Red, Black & Yellow E 172; Ponceau 4 R E 124; Titanium dioxide (anatase & rutile structure) E 171; Vegetal Carbon E 153; Tartrazine E 102; Sunset yellow FCF E 110;	
E 142	Acid brilliant green BS/ (Lissamine green)	All species
Emulsifying and stabilizing agents, thickeners and gelling agents		
E322	Lecithins (only as stabilizing agents, thickeners and gelling agents)	All species
E 400	Alginic acid	All species
E 402	Potassium alginate	All species
E 404	Calcium alginate	All species
E 405	Propane-1,2-diol alginate (Propyleneglycol alginate)	All species
E 432	Polyoxyethylene (20)-sorbitan monolaurate	All species
E 434	Polyoxyethylene (20)-sorbitan monopalmitate	All species
E 435	Polyoxyethylene (20)-sorbitan monostearate	All species
E 436	Polyoxyethylene (20)-sorbitan tristearate	All species
E 465	Ethylmethylcellulose	All species
E 473	Sucrose esters of fatty acids (esters of saccharose and edible fatty acids)	All species
E 474	Sucroglycerides (mixture of esters of saccharose and mono- and di-glycerides of edible fatty acids)	All species
E 475	Polyglycerol esters of non-polymerised edible fatty acids	All species
E 477	Mono-esters of propane-1,2-diol (propyleneglycol) and edible fatty acids, alone or in mixtures with diesters	All species
E 480	Stearoyl 2-lactylic acid	All species
E 481	Sodium stearoyl 2-lactylate	All species

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E 482	Calcium stearoyl 2-lactylate	All species
E 483	Stearyl tartrate	All species
E 486	Dextrans	All species
E 491	Sorbitan monostearate	All species
E 492	Sorbitan tristearate	All species
E 494	Sorbitan monooleate	All species
E 495	Sorbitan monopalmitate	All species
E 496	Polyethyleneglycol 6000	All species
E 497	Polyoxypropylene-polyoxyethylene polymers (M.W. 6 800-9 000)	All species
Trace elements		
E 1	<b>Iron — Fe</b> , Ferrous chloride, tetrahydrate	All species
E 1	<b>Iron — Fe</b> , Ferrous citrate, hexahydrate	All species
E 1	<b>Iron — Fe</b> , Ferrous lactate, trihydrate	All species
E 2	<b>Iodine — I</b> , Calcium iodate, hexahydrate	All species
E 2	<b>Iodine — I</b> , Sodium iodide	All species
E 4	<b>Copper — Cu</b> , Cupric methionate	All species
E 5	<b>Manganese — Mn</b> , Manganic oxide	All species
E 5	<b>Manganese — Mn</b> , Manganomanganic oxide	All species
E 5	<b>Manganese — Mn</b> , Manganous carbonate	All species
E 5	<b>Manganese — Mn</b> , Manganous hydrogen phosphate, trihydrate	All species
E 5	<b>Manganese — Mn</b> , Manganous sulphate, tetrahydrate	All species
E 6	<b>Zinc — Zn</b> , Zinc carbonate	All species
E 6	<b>Zinc — Zn</b> , Zinc chloride monohydrate	All species
E 6	<b>Zinc — Zn</b> , Zinc lactate, trihydrate	All species

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E 7	<b>Molybdenum — Mo</b> , Ammonium molybdate	All species
E 8	<b>Selenium — Se</b> , Sodium selenate	All species
Vitamins, provitamins and chemically well-defined substances having similar effect		
	Betaine. All forms with the exception of betaine anhydrous and betaine hydrochloride	All species
	Biotin. All forms with the exception of D-(+)-biotin	All species
	Carnitine. All forms with the exception of L carnitine and L carnitine L-tartrate	All species
	Choline. All forms with the exception of choline chloride	All species
	Folate. All forms of folate with the exception of folic acid	All species
	Niacin. All forms of niacin with the exception of niacin 99 % and niacinamide	All species
	Omega-3 Essential Unsaturated Fatty acids	All species
	Omega-6 Essential Unsaturated Fatty acids (all with exception of octadecadienoic acid)	All species
	Pantothenic acid. All forms with the exception of Calcium-D-pantothenate and D-panthenol	All species
	Para-amino benzoic acid (PABA)	All species
	Thiamine. All forms with the exception of thiamine hydrochloride and thiamine mononitrate	All species
	Vitamin A. All forms with the exception of retinyl acetate, retinyl palmitate and retinyl propionate	All species

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	Vitamin B <sub>6</sub> . All forms with the exception of pyridoxine hydrochloride	All species
	Vitamin C. All forms with the exception of ascorbic acid, sodium ascorbyl phosphate, sodium calcium ascorbyl phosphate	All species
	Vitamin E. All forms with the exception of <i>all-rac-alpha-tocopheryl acetate</i> , <i>RRR-alpha-tocopheryl acetate</i> and <i>RRR alpha tocopherol</i>	All species
	Vitamin K. All forms of Vitamin K with the exception of Vitamin K <sub>3</sub> as menadione nicotinamide bisulphite and as L-menadione sodium bisulphite	All animal species
Amino acids, their salts and analogues		
3.1.3.	Methionine/Methionine-zinc, technically pure	All species
3.2.1.	Lysine/L-lysine, technically pure	All species
3.4.2.	DL-Tryptophan, technically pure	All species
Silage additives		
Enzymes		
	Xylanase EC 3.2.1.8 from <i>Trichoderma longibrachiatum</i> rifar IMI SD185	All species
Microorganisms		
	<i>Enterococcus faecium</i> BIO 34	All species
	<i>Lactobacillus salivarius</i> CNCM I-3238/ATCC 11741	All species
	<i>Pediococcus pentosaceus</i> NCIMB 30089	All species
Substances		
	Formaldehyde	All species
	Sodium bisulphate	All species
Flavouring and appetising substances		

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Natural products — botanically defined		
	Birch tincture CoE 88	All species
Natural products and corresponding synthetic products		
	CAS No 16630-52-7/3-(Methylthio)butanal/Flavis No 12.056	All species
	CAS No 2179-60-4/Methyl propyl disulfide/Flavis No 12.019	All species
	CAS No 36431-72-8/Theaspirane/Flavis No 13.098	All species
	CAS No 3738-00-9/1,5,5,9-Tetramethyl-13-oxatricyclo [8.3.0.0.(4.9)]tridecane/Flavis No 13.072	All species
	CAS No 40789-98-8/3-Mercaptobutan-2-one/Flavis No 12.047	All species
	CAS No 43040-01-3/3-Methyl-1,2,4-trithiane/Flavis No 15.036	All species
	CAS No 495-62-5/1,4(8),12-Bisabolatriene/Flavis No 01.016	All species
	CAS No 516-06-3/D,L-Valine/Flavis No 17.023	All species
	CAS No 5756-24-1/Dimethyl tetrasulfide/Flavis No 12.116	All species
	CAS No 6028-61-1/Dipropyl trisulfide/Flavis No 12.023	All species
	CAS No 689-67-8/6,10-Dimethyl-5,9-undecadien-2-one/Flavis No 07.216	All species
	CAS No 78-98-8/2-Oxopropanal/Flavis No 7.001	All species

## PART B

### *Feed additives to be withdrawn for certain species or categories of animals*

Identification Number	Additive	Species or category of animals
Preservatives		

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E 214	Ethyl 4-hydroxybenzoate	Pets
E 215	Sodium ethyl 4-hydroxybenzoate	Pets
E 216	Propyl 4-hydroxybenzoate	Pets
E 217	Sodium propyl 4-hydroxybenzoate	Pets
E 218	Methyl 4-hydroxybenzoate	Pets
E 219	Sodium methyl 4-hydroxybenzoate	Pets
E 222	Sodium bisulphite	Dogs; Cats
E 223	Sodium metabisulphite	Dogs; Cats
E 285	Methylpropionic acid	Ruminants, at the beginning of rumination
Acidity regulators		
E 210	Benzoic acid	Pigs for fattening
E 340(iii)	Tripotassium orthophosphate	Cats; Dogs
E 350(i)	Sodium malate (Salt of DL- or L-Malic Acid)	Cats; Dogs
E 507	Hydrochloric acid	Cats; Dogs
E 513	Sulphuric acid	Cats; Dogs
Binders, anti-caking agents and coagulants		
E 567	Clinoptilolite of volcanic origin	Rabbits
E 598	Synthetic calcium aluminates	Dairy cows; Cattle for fattening; Calves; Lambs; Kids; Poultry; Rabbits; Pigs
Colourants, including pigments		
Carotenoids and xanthophylls		
E 161b	Lutein	Cats & dogs
E 160c	Capsanthin	Turkeys
E 161c	Cryptoxanthin	Poultry
E 160e	Beta-apo-8'-carotenal	Poultry
E 161g	Canthaxanthin	All species and uses with the exception of: — Chickens for fattening and minor poultry species for fattening for uses belonging to the functional group 2 (a) (ii)

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		<ul style="list-style-type: none"> <li>— Laying poultry and poultry reared for laying for uses belonging to the functional group 2 (a) (ii).</li> <li>— Ornamental birds and ornamental fish for uses belonging to the functional group 2 (a) (iii)</li> </ul>
E 161j	Astaxanthin	<p>All species with the exception of:</p> <ul style="list-style-type: none"> <li>— Salmon and trout for uses belonging to the functional groups 2(a) (i) and 2(a) (iii)</li> <li>— Ornamental fish for uses belonging to the functional group 2(a) (i)</li> </ul>
E 161z	Astaxantin-rich <i>Phaffia Rhodozyma</i> (ATCC 74219)	Salmon; Trout
Other colourants		
E 155	Brown HT	Cats; Dogs
E 104	Quinoline yellow	Food producing animals
E 122	Azorubine (carmoisine)	All species with the exception of cats and dogs
E 160b	Bixin	All species with the exception of dogs and cats
Emulsifying and stabilizing agents, thickeners and gelling agents		
E 401	Sodium alginate	All species with the exception of Fish; Pets and other non-food producing animals (non-food fur animals)
E 403	Ammonium alginate	All species or categories of animals with the exception of aquarium fish
E 406	Agar	All species with the exception of Pets and other non-food producing animals (non-food fur animals)
E 407	Carrageenan	All species with the exception of Pets and other



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		non-food producing animals (non-food fur animals)
E 418	Gellan gum	Dogs; cats
E 488	Polyoxyethylated glyceride of tallow fatty acids	Calves
E 489	Ether of polyglycerol and of alcohols obtained by the reduction of oleic and palmitic acids	Calves
E 498	Partial polyglycerol esters of polycondensed fatty acids of castor oil	Dogs
Enzymes		
E 1600	3-Phytase/EC 3.1.3.8 produced by <i>Aspergillus niger</i> (CBS 114.94)	Piglets; Pigs for fattening; Sows; Chickens for fattening; Laying hens
E 1600	3-Phytase/EC 3.1.3.8 produced by <i>Aspergillus niger</i> (CBS 114.94)	Turkeys for fattening
E 1605	Endo-1,4-beta-xylanase/ EC 3.2.1.8 produced by <i>Aspergillus niger</i> (CBS 520.94)	Chickens for fattening
E 1608	Endo-1,4-beta-xylanase/ EC 3.2.1.8/Endo-1,4- beta-glucanase/EC 3.2.1.4 produced by <i>Humicola insolens</i> (DSM 10442)	Chickens for fattening
E 1609	Endo-1,4-beta-xylanase/ EC 3.2.1.8/Endo-1,4- beta-glucanase/EC 3.2.1.4 produced by <i>Aspergillus niger</i> (CBS 600.94) (coated, solid and liquid forms)	Chickens for fattening; Turkeys for fattening; Piglets (weaned)
E 1609	Endo-1,4-beta-xylanase/ EC 3.2.1.8/Endo-1,4- beta-glucanase/EC 3.2.1.4 produced by <i>Aspergillus niger</i> (CBS 600.94) (granulate form)	Chickens for fattening; Turkeys for fattening; Piglets (weaned)
E 1610	Endo-1,4-beta-glucanase/ EC 3.2.1.4/Endo-1,4- beta-xylanase/EC 3.2.1.8 produced by <i>Aspergillus niger</i> (CBS 600.94)	Chickens for fattening

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E 1611	Endo-1,3(4)-beta-glucanase/EC 3.2.1.6 produced by <i>Trichoderma longibrachiatum</i> (ATCC 2106)/Endo-1,4-beta-xylanase/EC 3.2.1.8 produced by <i>Trichoderma longibrachiatum</i> (IMI SD 135)/Polygalacturonase/EC 3.2.1.15 produced by <i>Aspergillus aculeatus</i> (CBS 589.94)	Pigs for fattening
E 1614	6-Phytase/EC 3.1.3.26 produced by <i>Aspergillus oryzae</i> (DSM 11857)	Chickens for fattening; Laying hens; Turkeys for fattening; Piglets; Pigs for fattening; Sows
E 1615	Endo-1,3(4)-beta-glucanase/EC 3.2.1.6 produced by <i>Trichoderma longibrachiatum</i> (CNCM MA 6-10 W)	Chickens for fattening
E 1618	Endo-1,4-beta-xylanase/EC 3.2.1.8 produced by <i>Aspergillus niger</i> (CBS 270.95)	Chickens for Fattening; Turkeys for Fattening
E 1619	Alpha-amylase/EC 3.2.1.1/Endo-1,3(4)-beta-glucanase/EC 3.2.1.6 produced by <i>Bacillus amyloliquefaciens</i> (DSM 9553)	Chickens for fattening
E 1622	Endo-1,3(4)-beta-glucanase/EC 3.2.1.6/Endo-1,4-beta-xylanase/EC 3.2.1.8 produced by <i>Trichoderma longibrachiatum</i> (CBS 357.94)	Chickens for fattening
E 1623	Endo-1,3(4)-beta-glucanase/EC 3.2.1.6 produced by <i>Trichoderma longibrachiatum</i> (ATCC 2106), endo-1,4-beta-xylanase/EC 3.2.1.8 produced by <i>Trichoderma longibrachiatum</i> (ATCC 2105) and subtilisin/EC 3.4.21.62 produced by <i>Bacillus subtilis</i> (ATCC 2107)	Chickens for fattening

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E 1624	Endo-1,3(4)-beta-glucanase/EC 3.2.1.6 produced by <i>Trichoderma longibrachiatum</i> (ATCC 2106), endo-1,4-beta-xylanase/EC 3.2.1.8 produced by <i>Trichoderma longibrachiatum</i> (IMI SD 135) and alpha-amylase/EC 3.2.1.1 produced by <i>Bacillus amyloliquefaciens</i> (DSM 9553)	Piglets (weaned)
E 1625	Endo-1,3(4)-beta-glucanase/EC 3.2.1.6 produced by <i>Trichoderma longibrachiatum</i> (ATCC 2106), endo-1,4-beta-xylanase/EC 3.2.1.8 produced by <i>Trichoderma longibrachiatum</i> (IMI SD 135), alpha-amylase/EC 3.2.1.1 produced by <i>Bacillus amyloliquefaciens</i> (DSM 9553) and polygalacturonase/EC 3.2.1.15 produced by <i>Aspergillus aculeatus</i> (CBS 589.94)	Piglets (weaned)
E 1626	Endo-1,4-beta-xylanase/EC 3.2.1.8 produced by <i>Trichoderma longibrachiatum</i> (ATCC 2105) and subtilisin/EC 3.4.21.62 produced by <i>Bacillus subtilis</i> (ATCC 2107)	Piglets (weaned)
E 1627	Endo-1,3(4)-beta-glucanase/EC 3.2.1.6 produced by <i>Trichoderma longibrachiatum</i> (ATCC 2106) and endo-1,4-beta-xylanase/EC 3.2.1.8 produced by <i>Trichoderma longibrachiatum</i> (ATCC 2105)	Pigs for fattening
E 1628	Endo-1,4-beta-xylanase/EC 3.2.1.8 produced by <i>Trichoderma longibrachiatum</i> (ATCC 2105)	Piglets (weaned); Pigs for fattening; Chickens for fattening

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E 1629	Endo-1,4-beta-xylanase/ EC 3.2.1.8 produced by <i>Trichoderma</i> <i>longibrachiatum</i> (ATCC 2105) and endo-1,3(4)- beta-glucanase/EC 3.2.1.6 produced by <i>Trichoderma</i> <i>longibrachiatum</i> (ATCC 2106)	Chickens for fattening
E 1630	Endo-1,4-beta-xylanase/ EC 3.2.1.8 produced by <i>Trichoderma</i> <i>longibrachiatum</i> (ATCC 2105) and subtilisin/ EC 3.4.21.62 produced by <i>Bacillus subtilis</i> (ATCC 2107)	Chickens for fattening
E 1631	Endo-1,3(4)-beta- glucanase/EC 3.2.1.6 produced by <i>Trichoderma</i> <i>longibrachiatum</i> (ATCC 2106) and endo-1,4- beta-xylanase/EC 3.2.1.8 produced by <i>Trichoderma</i> <i>longibrachiatum</i> (IMI SD 135)	Chickens for fattening
E 1632	3-Phytase/EC 3.1.3.8 produced by <i>Trichoderma</i> <i>reesei</i> (CBS 528.94)	Chickens for fattening; Piglets (weaned); Pigs for fattening
E 1633	Endo-1,3(4)-beta- glucanase/EC 3.2.1.6 produced by <i>Trichoderma</i> <i>longibrachiatum</i> (ATCC 2106), endo-1,4-beta- xylanase/EC 3.2.1.8 produced by <i>Trichoderma</i> <i>longibrachiatum</i> (ATCC 2105) and subtilisin/EC 3.4.21.62 produced by <i>Bacillus subtilis</i> (ATCC 2107)	Chickens for fattening
E 1634	Endo-1,3(4)-beta-glucanase/ EC 3.2.1.6 produced by <i>Aspergillus niger</i> (MUCL 39199)	Chickens for fattening
E 1635	Endo-1,3(4)-beta- glucanase/EC 3.2.1.6 produced by <i>Trichoderma</i>	Chickens for fattening

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	<i>longibrachiatum</i> (ATCC 2106)	
E 1636	Endo-1,3(4)-beta-glucanase produced by <i>Trichoderma reesei</i> (CBS 526.94/EC 3.2.1.6)	Piglets (weaned); Chickens for fattening
E 1637	Endo-1,4-beta-xylanase produced by <i>Trichoderma longibrachiatum</i> (ATCC 2105)/EC 3.2.1.8 and Endo-1,3(4)-beta-glucanase/EC 3.2.1.6 and alpha-amylase produced by <i>Bacillus amyloliquefaciens</i> (DSM 9553)/EC 3.2.1.1; subtilisin produced by <i>Bacillus subtilis</i> (ATCC 2107)/EC 3.4.21.62 and polygalacturonase produced by <i>Aspergillus aculeatus</i> (CBS 589.94)/EC 3.2.1.15	Chickens for fattening
E 1638	Endo-1,3(4)-beta-glucanase/EC 3.2.1.6 produced by <i>Trichoderma longibrachiatum</i> (ATCC 2106), endo-1,4-beta-xylanase/EC 3.2.1.8 produced by <i>Trichoderma longibrachiatum</i> (ATCC 2105) and alpha-amylase/EC 3.2.1.1 produced by <i>Bacillus amyloliquefaciens</i> (DSM 9553)	Piglets (weaned)
E 1639	3-Phytase produced by <i>Hansenula polymorpha</i> (DSM 15087)	Chickens for fattening; Turkeys for fattening; Laying hens; Piglets; Pigs for fattening; Sows
E 1640	6-Phytase produced by <i>Schizosaccharomyces pombe</i> (ATCC 5233)/EC 3.1.3.26	Chickens for fattening
E 1641	Endo-1,4-beta-xylanase produced by <i>Trichoderma longibrachiatum</i> (MUCL 39203)/EC 3.2.1.8	Chickens for fattening
Micro-organisms		
E 1704	<i>Saccharomyces cerevisiae</i> CBS 493.94	Calves

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E 1706	<i>Enterococcus faecium</i> DSM 7134, <i>Lactobacillus rhamnosus</i> DSM 7133	Piglets (weaned)
E 1709	<i>Enterococcus faecium</i> ATCC 53519, <i>Enterococcus faecium</i> ATCC 55593 (In a 1/1 ratio)	Chickens for fattening
E 1714	<i>Lactobacillus farciminis</i> CNCM MA 67/AR	Piglets (weaned)
Chemically well-defined substances having a similar biological effect to vitamins		
3a900	Inositol	All species with the exception of fish and crustacean
—	Omega-6 Essential Unsaturated Fatty acids (as octadecadienoic acid)	All species with the exception of Pigs for fattening; Sows for reproduction; Sows, in order to have benefit in piglets; Cows for reproduction; Dairy cows for milk production
3a370	Taurine	All species with the exception of canidae, felidae mustelidae and carnivorous fish
E 670	Vitamin D <sub>2</sub>	Pigs; Piglets; Bovines; Ovines; Calves; Equines; Other species or categories of animals with the exception of poultry and fish
Urea and its derivatives		
2.1.2.	Biuret, technically pure	Ruminants from the beginning of rumination
2.1.3.	Urea-phosphate, technically pure	Ruminants from the beginning of rumination
2.1.4.	Diureidoisobutane, technically pure	Ruminants from the beginning of rumination
Flavouring and appetising substances		
Natural products and corresponding synthetic products		
	CAS No 134-20-3/Methyl anthranilate/Flavis No 09.715	Avian species
	CAS No 85-91-6/Methyl N-methylantranilate/Flavis No 09.781	Avian species
	CAS No 93-28-7/Eugenyl acetate/Flavis No 09.020	Poultry and fish

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	CAS No 97-53-0/Eugenol/ Flavis No 04.003	Fish
	CAS No 107-85-7/3- Methylbutylamine/Flavis No 11.001	Laying hens
	CAS No 75-50-3/ Trimethylamine/Flavis No 11.009	Laying hens
	CAS No 6627-88-9/4- Allyl-2,6-dimethoxyphenol/ Flavis No 04.051	Fish and poultry
	CAS No 593-81-7/ Trimethylamine hydrochloride/Flavis No 11.024	Laying hens