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(Acts whose publication is obligatory)

COMMISSION REGULATION (EC) No 2697/2000

of 27 November 2000

concerning the provisional authorisations of additives in feedingstuffs

(Text with EEA relevance)

THE COMMISSION OF THE EUROPEAN COMMUNITIES,

Having regard to the Treaty establishing the European Community,

Having regard to Council Directive 70/524/EEC of 23 November 1970 concerning additives in feedingstuffs [1], as last amended by Commission Regulation (EC) No 1887/2000 [2] ('the Directive'), and in particular Articles 3, 9e and 9i thereof,

Whereas:

(1) Articles 9e(1) and 9i(1) of the Directive provide that a provisional authorisation of a new additive or a new use of an additive may be given for a specific period.

(2) Article 4 of Council Directive establishes the procedure for such authorisation.

(3) Article 9e(2) and (3) and Article 9i(1) of the Directive provide that the duration of the provisional authorisations may not exceed four or five years, depending on the date of the first provisional authorisation. When the latter was given before 1 April 1998, the duration of the provisional authorisation may not exceed five years. In the case of additives whose first provisional authorisations were given after 1 April 1998, the duration of the provisional authorisation may not exceed four years.

(4) The first provisional authorisation is given until 30 September of the current year or of the next year then may be extended each year for one year. During the last year of the provisional authorisation, the authorisation should only be extended to the fourth or fifth anniversary (as the case may be) of the initial provisional authorisation.

(5) The current provisional authorisations of many additives expire on 30 September, and it is appropriate to extend for one year, or until the fourth or fifth anniversary (as the case may be) of the initial provisional authorisation, the period of these authorisations so that the necessary data for an authorisation for 10 years or without a time limit (depending on the nature of the additive in question) can be provided.

(6) The extension of the period of authorisation of the provisional authorisations must be considered as a purely administrative measure involving no new evaluation of the concerned additives.

(7) Provisional authorisations under this Regulation are granted for a specified period, but without prejudice to the possibility that they may be withdrawn at any time in accordance with Articles 9m and 11 of the Directive. In particular, authorisations for the use of antibiotics as additives in feedingstuffs are currently under review in the light of the fact that the Kingdom of Sweden has prohibited the use on its territory of all antibiotics as additives in feedingstuffs on the basis of Article 11 of the Directive, and the opinion issued by the Scientific Steering Committee on anti-microbial resistance on 28 May 1999. The Commission is also examining the more general question of the use of antibiotics as additives in feedingstuffs.

(8) In the light of the data submitted in the file and examined by the Member States, the conditions for the provisional authorisation under the conditions laid done in the Annex of the new uses of the additives 'Tartrazine' (E 102), 'Sunset Yellow FCF' (E 110), 'Patent Blue V' (E 131), and 'Chlorophyll copper complex' (E 141) belonging to the group of 'Colorants, including pigments' have been met.

(9) In the light of the data submitted in the file and examined by the Member States, the conditions for the modification of the physical forms under the conditions laid done in the Annex of the previously provisionally authorised enzyme preparations No 7 and No 8 have been met.

[1] OJ L 270, 14.12.1970, p. 1.
[2] OJ L 227, 7.9.2000, p. 13.

(10) The provisional authorisations expiring on 30 September 2000 of the micro-organism preparations No 1 *Bacillus cereus* var. *toyoi* (NCIMB 40112) and No 4 *Bacillus cereus* (ATCC 14893) should be renewed provisionally until 20 February 2001 in order to allow sufficient time for the provision of complementary data and for the safety reassessment of these two strains with regard to production of toxins, as requested in the *Opinion of the Scientific Committee for Animal Nutrition on the safety of use of Bacillus species in animal nutrition* expressed on 17 February 2000.

(11) The Commission has consulted the Scientific Committee for Animal Nutrition concerning the safety of the enzyme preparations included in the Annex to the present Regulation. The Committee delivered a positive opinion in the *Report of the Scientific Committee for Animal Nutrition on the use of certain enzymes in animal feedingstuffs* adopted on 4 June 1998 and updated on 3 December 1999.

(12) The Commission has consulted the Scientific Committee for Animal Nutrition concerning the safety of the micro-organism preparations included in the Annex to the present Regulation. The Committee delivered a positive opinion in the *Report on the use of certain micro-organisms as additives in feedingstuffs* expressed on 26 September 1997 and updated on 27 April 2000.

(13) For readability and coherence reasons, all the provisional authorisations of additives in feedingstuffs should be consolidated in this Regulation.

(14) The provisional authorisations for most of the additives expire on 30 September 2000. Therefore, it is necessary to apply this Regulation from the 1 October 2000.

(15) The measures provided for in this Regulation are in accordance with the opinion of the of the Standing Committee for Feedingstuffs,

HAS ADOPTED THIS REGULATION:

Article 1

The additives referred to in the Annex to this Regulation are authorised provisionally in accordance with Council Directive 70/524/EEC under the conditions laid down in this Annex.

Article 2

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

It shall apply from 1 October 2000.

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

Done at Brussels, 27 November 2000.

For the Commission
David BYRNE
Member of the Commission

ANNEX

List of additives linked to a person responsible for putting them into circulation and authorised on a provisional basis for no longer than five years

Registration No of additive	Name and registration No of person responsible for putting additive into circulation	Additive (trade name)	Composition, chemical formula, description	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	Period of authorisation
						mg of active substance/kg of complete feedingstuff			
Antibiotics									
33	Eli Lilly and Company Ltd		Additive composition:	Turkeys	—	5	10	—	30.9.2001 [a]
		Avilamycin: 200 g/kg (Maxus G200, Maxus 200)	Avilamycin: 200 g activity/kg Soyabean oil or mineral oil: 5 to 30 g/kg Soyabean hulls qs 1 kg						
		Avilamycin 100 g/kg (Maxus G100, Maxus 100)	Avilamycin: 100 g activity /kg Soyabean oil or mineral oil: 5 to 30 g/kg Soyabean hulls qs 1 kg						
			Active substance: Avilamycin, $C_{57—62}H_{82—90}Cl_{1—2}O_{31—32}$, CAS No of avilamycin A: 69787-79-7, CAS No of avilamycin B: 73240-30-9, Mixture of oligosaccharides of the orthosomycin group produced by *Streptomyces viridochromogenes* (NRRL 2860), in granular form.						
			Factor composition: Avilamycin A: ≥ 60 % Avilamycin B: ≤ 18 % Avilamycin A + B: ≥ 70 % Other single avilamycins: ≤ 6 %						

Registration No of additive	Name and registration No of person responsible for putting additive into circulation	Additive (trade name)	Composition, chemical formula, description	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	Period of authorisation
						mg of active substance/kg of complete feedingstuff			
Coccidiostats and other medicinal substances									
26	Intervet International bv	Salinomycin sodium 120 g/kg (Sacox 120)	Additive composition: Salinomycin sodium ≥ 120 g/kg Silicium dioxide 10 to 100 g/kg Calcium carbonate 350 to 700 g/kg Active substance: Salinomycin sodium, $C_{42}H_{69}O_{11}Na$, CAS No: 53003-10-4, Sodium salt of a polyether monocarboxylic acid produced by fermentation of *Streptomyces albus* (DSM 12217) Related impurities: < 42 mg elaiophylin/kg salinomycin sodium < 40 g 17-epi-20-desoxy-salinomycin/kg salinomycin sodium	Rabbits for fattening	—	20	25	Use prohibited at least five days before slaughter. Indicate in the instructions for use: 'Dangerous for equines'. 'This feedingstuff contains an ionophore: simultaneous use with certain medicinal substances (e.g. tiamulin) can be contra-indicated'.	20.3.2001 [b]
				Chickens reared for laying	12 weeks	30	50	Indicate in the instructions for use: 'Dangerous for equines'. 'This feedingstuff contains an ionophore: simultaneous use with certain medicinal substances (e.g. tiamulin) can be contra-indicated'.	30.9.2001 [c]

Registration No of additive	Name and registration No of person responsible for putting additive into circulation	Additive (trade name)	Composition, chemical formula, description	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	Period of authorisation
						mg of active substance/kg of complete feedingstuff			
27	Janssen Animal Health BVBA	Diclazuril 0,5 g/100 g (Clinacox 0,5% Premix)	Additive composition: Diclazuril: 0,5 g/100 g Soybean meal: 99,25 g/100 g Polyvidone K 30: 0,2 g/100 g Sodium hydroxyde: 0,0538 g/100 g	Turkeys	12 weeks	1	1	Use prohibited at least five days before slaughter	20.3.2001 [b]
		Diclazuril 0,2 g/100 g (Clinacox 0,2% Premix)	Diclazuril: 0,2 g/100 g Soybean meal: 39,7 g/100 g Polyvidone K 30: 0,08 g/100 g Sodium hydroxide: 0,0215 g/100 g Wheat middlings: 60 g/100 g Active substance: Diclazuril, $C_{17}H_9Cl_3N_4O_2$, (±)-4-chlorophenyl[2,6-dichloro-4-(2,3,4,5-tetrahydro-3,5-dioxo-1,2,4-triazin-2-yl)phenyl]acetonitrile CAS No: 101831-37-2 Related impurities: Degradation compound (R064318): ≤ 0,2% Other related impurities (R066891, R066896, R068610, R070156, R068584, R070016): ≤ 0,5% individually Total impurities: ≤ 1,5%	Chickens reared for laying	16 weeks	1	1	—	30.9.2001 [a]

Registration No of additive	Name and registration No of person responsible for putting additive into circulation	Additive (trade name)	Composition, chemical formula, description	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	Period of authorisation
						mg of active substance/kg of complete feedingstuff			
28	Alpharma AS	Maduramicin ammonium alpha 1 g/100 g (Cygro 1 %)	Additive composition: Maduramicin ammonium alpha: 1 g/100 g Benzyl alcohol: 5 g/100 g Corn cob grits: qs 100 g Active substance: Maduramicin ammonium alpha $C_{47}H_{83}O_{17}N$, CAS No: 84878-61-5, Ammonium salt of a polyether monocarboxylic acid produced by *Actinomadura yumaensis* (ATCC 31585) (NRRL 12515). Related impurities: Maduramicin ammonium beta: <10 %	Turkeys	16 weeks	5	5	Use prohibited at least five days before slaughter. Indicate in the instructions for use: 'Dangerous for equines'. 'This feedingstuff contains an ionophore: simultaneous use with certain medicinal substances (e.g. tiamulin) can be contra-indicated'.	30.9.2001 [c]

List of other additives authorised on a provisional basis for no longer than four years or five years in the case of additives which have been the subject of provisional authorisation before 1 April 1998

No (or EC No)	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	Period of authorisation
					mg/kg of complete feedingstuff			
Colourants, including pigments								
1. *Carotenoids and xanthophylls:*								
E 160a	Beta-carotene	$C_{40}H_{56}$	Canaries	—	—	—	—	30.9.2001 [d]
E 161g	Canthaxanthin	$C_{40}H_{52}O_2$	Pet and ornamental birds	—	—	—	—	30.9.2001 [d]

No (or EC No)	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	Period of authorisation
					mg/kg of complete feedingstuff			
12	Astaxanthin-rich *Phaffia rhodozyma* (ATCC 74219)	Concentrated biomass of the yeast *Phaffia rhodozyma* (ATCC 74219), killed, containing at least 4,0 g astaxanthin per kilogram of additive and having a maximum ethoxyquin content of 2 000 mg/kg.	Salmon	—	—	100	The maximum content is expressed as astaxanthin. Use permitted only from the age of six months onwards. The mixture of the additive with canthaxanthin is allowed provided that the total concentration of astaxanthin and canthaxanthin does not exceed 100 mg/kg in the complete feedingstuff. Ethoxyquin content to be declared.	30.9.2001 [d]
			Trout	—	—	100	The maximum content is expressed as astaxanthin. Use permitted only from the age of six months onwards. The mixture of the additive with canthaxanthin is allowed provided that the total concentration of astaxanthin and canthaxanthin does not exceed 100 mg/kg in the complete feedingstuff. Ethoxyquin content to be declared.	30.9.2001 [d]
2. *Other colourants:*								
E 102	Tartrazine	$C_{16}H_9N_4O_9S_2Na_3$	Grain-eating ornamental birds	—	—	150	—	30.9.2001
			Small rodents	—	—	150	—	30.9.2001
E 110	Sunset yellow FCF	$C_{16}H_{10}N_2O_7S_2Na_2$	Grain-eating ornamental birds	—	—	150	—	30.9.2001
			Small rodents	—	—	150	—	30.9.2001

No (or EC No)	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	Period of authorisation
					mg/kg of complete feedingstuff			
E 131	Patent blue V	Calcium salt of the disulphonic acid of m-hydroxytetraethyl-diamino triphenylcarbinol anhydride	Grain-eating ornamental birds	—	—	150	—	30.9.2001
			Small rodents	—	—	150	—	30.9.2001
E 141	Chlorophyll copper complex	—	Grain-eating ornamental birds	—	—	150	—	30.9.2001
			Small rodents	—	—	150	—	30.9.2001

No (or EC No)	Element	Additive	Chemical formula	Maximum content of the element in mg/kg of complete feedingstuff	Other provisions	Period of authorisation
			Trace elements			
E 4	Copper-Cu	Copper-lysine sulphate	$Cu(C_6H_{13}N_2O_2)_2.SO_4$	Pigs for fattening: — in Member States where the mean density of the porcine population is equal to or higher than 175 pigs per 100 ha of utilisable agricultural land: — up to 16 weeks: 175 (total) — in Member States where the mean density of the porcine population is lower than 175 pigs per 100 ha of utilisable agricultural land: — up to 16 weeks: 175 (total)	Not more than 50 mg/kg of copper in the complete feedingstuff may come from copper-lysine sulphate.	30.9.2001 (e)
				Pigs for fattening: — in Member States where the mean density of the porcine population is equal to or higher than 175 pigs per 100 ha of utilisable agricultural land: — from 17th week up to slaughter: 35 (total) — in Member States where the mean density of the porcine population is lower than 175 pigs per 100 ha of utilisable agricultural land: — from 17th week up to six months: 100 (total) — over six months up to slaughter: 35 (total) Breeding pigs: 35 (total) Other species or categories of animals, with the exception of calves prior to the start of rumination and sheep: 35 (total)	Not more than 25 mg/kg of copper in the complete feedingstuffs may come from copper-lysine sulphate.	30.9.2001 (e)

No (or EC No)	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	Period of authorisation
					mg/kg of complete feedingstuff			
Binders, anti-caking agents and coagulants								
3	Clinoptilolite of volcanic origin	Calcium hydrated aluminosilicate of volcanic origin containing a minimum of 85% of clinoptilolite and a maximum of 15% of feldspar, micas and clays free of fibres and quartz. Maximum lead content: 80 mg/kg	Pigs	—	—	20 000	All feedingstuffs	30.9.2001 (f)
			Rabbits	—	—	20 000	All feedingstuffs	30.9.2001 (f)
			Poultry	—	—	20 000	All feedingstuffs	30.9.2001 (f)
4	Clinoptilolite of sedimentary origin	Hydrated calcium aluminosilicate of sedimentary origin containing at least 80% clinoptilolite and a maximum 20% of clay minerals, free of fibres and quartz. Maximum content in dioxins (1)	Pigs for fattening	—	—	20 000	All feedingstuffs	30.9.2001 (o)
			Chickens for fattening	—	—	20 000	All feedingstuffs	30.9.2001 (o)
			Turkeys for fattening	—	—	20 000	All feedingstuffs	30.9.2001 (o)
			Bovines	—	—	20 000	All feedingstuffs	30.9.2001 (o)
			Salmon	—	—	20 000	All feedingstuffs	30.9.2001 (o)
Enzymes								
1	3-phytase EC 3.1.3.8	Preparation of 3-phytase produced by *Aspergillus niger* (CBS 114.94) having a minimum phytase activity of 5 000 FTU (2)/g for solid and liquid preparations	Turkeys	—	125 FTU	—	1. Indicate in the directions for use for the additive and the premixture the storage temperature, storage duration and stability on pelleting. 2. Recommended dose per kilogram of complete feedingstuff: 200 to 800 FTU. 3. For use in compound feedingstuffs with a minimum content of 0,3% phytate, e.g. 20% wheat.	30.9.2001 (d)

No (or EC No)	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	Period of authorisation
					mg/kg of complete feedingstuff			
2	3-phytase EC 3.1.3.8	Preparation of 3-phytase produced by *Aspergillus oryzae* (DSM 10 289) having a minimum activity of: Coated form: 2 500 FYT ([3])/g Liquid form: 5 000 FYT/g	Piglets	4 months	250 FYT	1 000 FYT	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting. 2. Recommended dose per kilogram of complete feedingstuff: 500 FYT. 3. For use in compound feed rich in phytates, e.g. containing more than 40% cereals (maize, barley, oats, wheat, rye, triticale), oilseeds and pulses.	30.9.2001 ([g])
			Pigs for fattening	—	400 FYT	1 000 FYT	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting. 2. Recommended dose per kilogram of complete feedingstuff: 500 FYT. 3. For use in compound feed rich in phytates, e.g. containing more than 40% cereals (maize, barley, oats, wheat, rye, triticale), oilseeds and pulses.	30.9.2001 ([g])
			Chickens for fattening	—	200 FYT	1 000 FYT	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting. 2. Recommended dose per kilogram of complete feedingstuff: 500 FYT. 3. For use in compound feed rich in phytates, e.g. containing more than 40% cereals (maize, barley, oats, wheat, rye, triticale), oilseeds and pulses.	30.9.2001 ([g])

No (or EC No)	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	Period of authorisation
					mg/kg of complete feedingstuff			
			Laying hens	—	500 FYT	1 000 FYT	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting. 2. Recommended dose per kg of complete feedingstuff: 750 FYT. 3. For use in compound feed rich in phytates, e.g. containing more than 40% cereals (maize, barley, oats, wheat, rye, triticale), oilseeds and pulses.	30.9.2001 ([h])
3	Alpha-galactosidase EC 3.2.1.22	Preparation of alpha-galactosidase produced by *Aspergillus oryzae* (DSM 10 286) having a minimum activity of: Liquid form: 1 000 GALU ([4])/g	Chickens for fattening	—	300 GALU	1 000 GALU	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting. 2. Recommended dose per kilogram of complete feedingstuff: 450 GALU. 3. For use in compound feed rich in oligosaccharides, e.g. containing more than 25% soy meal, cotton seed cakes, peas.	30.9.2001 ([g])
4	Endo-1,3(4)-beta-glucanase EC 3.2.1.6	Preparation of endo-1,3(4)-beta-glucanase produced by *Aspergillus aculeatus* (CBS 589.94) having a minimum activity of: Coated form: 50 FBG ([5])/g Liquid form: 120 FBG/g	Piglets	4 months	25 FBG	40 FBG	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting. 2. Recommended dose per kilogram of complete feedingstuff: 25 FBG. 3. For use in compound feed rich in non-starch polysaccharides (mainly beta-glucans), e.g. containing more than 50% maize or barley.	30.9.2001 ([g])

No (or EC No)	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	Period of authorisation
					mg/kg of complete feedingstuff			
			Chickens for fattening	—	10 FBG	100 FBG	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting. 2. Recommended dose per kilogram of complete feedingstuff: 20 FBG. 3. For use in compound feed rich in non-starch polysaccharides (mainly beta-glucans), e.g. containing more than 60% maize.	30.9.2001 ([m])
5	Endo-1,4-beta-xylanase EC 3.2.1.8	Preparation of endo-1,4-beta-xylanase produced by *Aspergillus oryzae* (DSM 10287) having a minimum activity of: Coated form: 1 000 FXU ([6])/g Liquid form: 650 FXU/ml	Chickens for fattening	—	80 FXU	200 FXU	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting. 2. Recommended dose per kilogram of complete feedingstuff: 150 FXU. 3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans), e.g. containing more than 50% wheat.	30.9.2001 ([g])
			Turkeys for fattening	—	225 FXU	600 FXU	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting. 2. Recommended dose per kilogram of complete feedingstuff: 225 to 600 FXU. 3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans), e.g. containing more than 50% wheat.	30.9.2001 ([g])

No (or EC No)	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	Period of authorisation
					mg/kg of complete feedingstuff			
			Piglets	4 months	200 FXU	—	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting. 2. Recommended dose per kilogram of complete feedingstuff: 200 FXU. 3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans), e.g.containing more than 50% wheat.	30.9.2001 (g)
6	Endo-1,4-beta-xylanase EC 3.2.1.8 Endo-1,4-beta-glucanase EC 3.2.1.4	Preparation of endo-1,4-beta-xylanase and endo-1,4-beta-glucanase produced by *Humicola insolens* (DSM 10442) having a minimum activity of: Coated form: 800 FXU ([7])/g 75 FBG ([8])/g Microgranulated form: 800 FXU/g 75 FBG/g Liquid form: 550 FXU/ml 50 FBG/ml	Chickens for fattening	—	200 FXU 19 FBG	1 000 FXU 94 FBG	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting. 2. Recommended dose per kilogram of complete feedingstuff: 400 FXU 38 FBG. 3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans and beta-glucans), e.g. containing more than 30% barley and/or oats, wheat.	30.9.2001 (g)
			Piglets	4 months	240 FXU 22 FBG	1 000 FXU 94 FBG	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting. 2. Recommended dose per kilogram of complete feedingstuff: 400 FXU 38 FBG. 3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans and beta-glucans), e.g. containing more than 30% barley and/or oats, wheat.	30.9.2001 (g)

No (or EC No)	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	Period of authorisation
					mg/kg of complete feedingstuff			
			Pigs for fattening	—	200 FXU 19 FBG	800 FXU 75 FBG	1. In the conditions of use of the additive and premixture, indicate the storage temperature, storage life, and the stability to pelleting. 2. Recommended dose per kg of feedingstuff: 400 FXU 38 FBG. 3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans and beta-glucans), e.g. containing more than 30% barley, and/or oats, wheat.	30.9.2001 (i)
7	Endo-1,4-beta-xylanase EC 3.2.1.8 Endo-1,4-beta-glucanase EC 3.2.1.4	Preparation of endo-1,4-beta-xylanase and endo-1,4-beta-glucanase produced by *Aspergillus niger* (CBS 600.94) having a minimum activity of: Coated form: 36 000 FXU ([9])/g 15 000 BGU ([10])/g Liquid form: 36 000 FXU/g 15 000 BGU/g Solid form: 36 000 FXU/g 15 000 BGU/g	Chickens for fattening	—	3 600 FXU 1 500 BGU	12 000 FXU 5 000 BGU	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting. 2. Recommended dose per kilogram of complete feedingstuff: 3 600 to 6 000 FXU 1 500 to 2 500 BGU. 3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans and beta-glucans), e.g. containing more than more than 35% barley and 20% wheat.	30.9.2001 (g*)

No (or EC No)	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	Period of authorisation
					mg/kg of complete feedingstuff			
			Piglets	4 months	6 000 FXU 2 500 BGU	— —	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting. 2. Recommended dose per kilogram of complete feedingstuff: 6 000 FXU 2 500 BGU. 3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans and beta-glucans), e.g. containing more than 30 % wheat and 30 % barley.	30.9.2001 [m]
			Turkeys for fattening	—	6 000 FXU 2 500 BGU	12 000 FXU 5 000 BGU	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting. 2. Recommended dose per kilogram of complete feedingstuff: 6 000 to 12 000 FXU 2 500 to 5 000 BGU. 3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans and beta-glucans), e.g. containing more than 40 % wheat.	30.9.2001 [m]

No (or EC No)	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	Period of authorisation
					mg/kg of complete feedingstuff			
			Laying hens	—	12 000 FXU 5 000 BGU	— —	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting. 2. Recommended dose per kilogram of complete feedingstuff: 12 000 FXU 5 000 BGU. 3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans and beta-glucans), e.g. containing more than 20% wheat, 10% barley and 20% sunflower.	30.9.2001 ([m])
8	Endo-1,4-beta-glucanase EC 3.2.1.4 Endo-1,4-beta-xylanase EC 3.2.1.8	Preparation of Endo-1,4-beta-glucanase and Endo-1,4-beta-xylanase produced by *Aspergillus niger* (CBS 600.94) having a minimum activity of: Coated form: 10 000 BGU ([10])/g 4 000 FXU ([9])/g Liquid form: 20 000 BGU/g 8 000 FXU/g Solid form: 20 000 BGU/g 8 000 FXU/g	Chickens for fattening	—	3 000 BGU 1 200 FXU	10 000 BGU 4 000 FXU	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting. 2. Recommended dose per kilogram of complete feedingstuff: 3 000 to 10 000 BGU 1 200 to 4 000 FXU. 3. For use in compound feed rich in non-starch polysaccharides (mainly beta-glucans and arabinoxylans), e.g. containing more than 60% barley.	30.9.2001 ([g*])

No (or EC No)	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	Period of authorisation
					mg/kg of complete feedingstuff			
			Piglets	4 months	3 000 BGU 1 200 FXU	5 000 BGU 2 000 FXU	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting. 2. Recommended dose per kilogram of complete feedingstuff: 3 000 to 5 000 BGU 1 200 to 2 000 FXU. 3. For use in compound feed rich in non-starch polysaccharides (mainly beta-glucans and arabinoxylans), e.g. containing more than 30% barley.	30.9.2001 (h*)
			Laying hens	—	5 000 BGU 2 000 FXU	— —	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting. 2. Recommended dose per kilogram of complete feedingstuff: 5 000 BGU 2 000 FXU. 3. For use in compound feed rich in non-starch polysaccharides (mainly beta-glucans and arabinoxylans), e.g. containing more than 60% barley.	30.9.2001 (m)

No (or EC No)	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	Period of authorisation
					mg/kg of complete feedingstuff			
9	Endo-1,4-beta-xylanase EC 3.2.1.8	Preparation of endo-1,4-beta-xylanase produced by *Aspergillus niger* (CBS 270.95) having a minimum activity of: Solid form: 28 000 EXU ([11])/g Liquid form: 14 000 EXU/ml	Chickens for fattening	—	1 400 EXU	—	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting. 2. Recommended dose per kilogram of complete feedingstuff: 1 400 EXU. 3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans), e.g. containing more than 50% wheat.	30.9.2001 ([g])
			Laying hens	—	2 400 EXU	—	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. 2. Recommended dose per kg of complete feedingstuff: 2 400 to 7 400 EXU. 3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans) e.g. containing more than 30% wheat and 30% rye.	30.9.2001 ([m])
			Turkeys for fattening	—	2 400 EXU	—	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. 2. Recommended dose per kg of complete feedingstuff: 2 400 to 5 600 EXU. 3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans) e.g. containing more than 30% wheat and 30% rye.	30.9.2001 ([m])

No (or EC No)	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	Period of authorisation
					mg/kg of complete feedingstuff			
10	Alpha-amylase EC 3.2.1.1	Preparation of alpha-amylase produced by *Bacillus amyloliquefaciens* (CBS 360.94) having a minimum activity of: Solid form: 45 000 RAU ([12])/g Liquid form: 20 000 RAU/ml	Piglets	4 months	1 800 RAU	—	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting. 2. Recommended dose per kilogram of complete feedingstuff: 1 800 RAU. 3. For use, exclusively, in compound feed destined for liquid feeding systems, and containing starch-rich feed materials (e.g. containing more than 35 % wheat).	30.9.2001 ([g])
			Pigs for fattening	—	1 800 RAU	—	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting. 2. Recommended dose per kilogram of complete feedingstuff: 1 800 RAU. 3. For use, exclusively, in compound feed destined for liquid feeding systems, and containing starch-rich feed materials (e.g. containing more than 35 % wheat).	30.9.2001 ([g])
			Sows	—	1 800 RAU	—	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting. 2. Recommended dose per kilogram of complete feedingstuff: 1 800 RAU. 3. For use, exclusively, in compound feed destined for liquid feeding systems, and containing starch-rich feed materials (e.g. containing more than 35 % wheat).	30.9.2001 ([g])

No (or EC No)	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	Period of authorisation
					mg/kg of complete feedingstuff			
11	Endo-1,4-beta-glucanase EC 3.2.1.4 Endo-1,3(4)-beta-glucanase EC 3.2.1.6 Endo-1,4-beta-xylanase EC 3.2.1.8	Preparation of endo-1,4-beta-glucanase, endo-1,3(4)-beta-glucanase and endo-1,4-beta-xylanase produced by *Trichoderma longibrachiatum* (ATCC 74 252) having a minimum activity of: Endo-1,4-beta-glucanase: 8 000 U ([13])/ml Endo-1,3(4)-beta-glucanase: 18 000 U ([14])/ml Endo-1,4-beta-xylanase: 26 000 U ([15])/ml	Chickens for fattening	—	Endo-1,4-beta-glucanase: 400 U Endo-1,3(4)-beta-glucanase: 900 U Endo-1,4-beta-xylanase: 1 300 U	— — —	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting. 2. Recommended dose per kilogram of complete feedingstuff: endo-1,4-beta-glucanase: 400 to 1 600 U endo-1,3(4)-beta-glucanase: 900 to 3 600 U endo-1,4-beta-xylanase: 1 300 to 5 200 U. 3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans and beta-glucans), e.g. containing more than 30% wheat or barley and 10% rye.	30.9.2001 ([g])
12	Endo-1,4-beta-glucanase EC 3.2.1.4 Endo-1,3(4)-beta-glucanase EC 3.2.1.6 Endo-1,4-beta-xylanase EC 3.2.1.8	Preparation of endo-1,4-beta-glucanase, endo-1,3(4)-beta-glucanase and endo-1,4-beta-xylanase produced by *Trichoderma viride* (FERM BP-4447) having a minimum activity of: Endo-1,4-beta-glucanase: 8 000 U ([13])/g Endo-1,3(4)-beta-glucanase: 18 000 U ([14])/g Endo-1,4-beta-xylanase: 26 000 U ([15])/g	Chickens for fattening	—	Endo-1,4-beta-glucanase: 200 U Endo-1,3(4)-beta-glucanase: 450 U Endo-1,4-beta-xylanase: 650 U	— — —	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting. 2. Recommended dose per kilogram of complete feedingstuff: endo-1,4-beta-glucanase: 800 to 1 200 U endo-1,3(4)-beta-glucanase: 1 800 to 2 700 U endo-1,4-beta-xylanase: 2 600 to 3 900 U. 3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans and beta-glucans), e.g. containing more than 20% wheat and 20% barley, and/or 25% rye.	30.9.2001 ([g])

No (or EC No)	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	Period of authorisation
					mg/kg of complete feedingstuff			
			Laying hens	—	Endo-1,4-beta-glucanase: 640 U Endo-1,3(4)-beta-glucanase: 1 440 U Endo-1,4-beta-xylanase: 2 080 U	— — —	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting. 2. Recommended dose per kilogram of complete feedingstuff: endo-1,4-beta-glucanase: 640 to 1 280 U endo-1,3(4)-beta-glucanase: 1 440 to 2 880 U endo-1,4-beta-xylanase: 2 080 to 4 160 U. 3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans and beta-glucans), e.g. containing more than 20 % wheat and 20 % barley and/or 25 % rye.	30.9.2001 (g)
			Turkeys for fattening	—	Endo-1,4-beta-glucanase: 800 U Endo-1,3(4)-beta-glucanase: 1 800 U Endo-1,4-beta-xylanase: 2 600 U	— — —	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. 2. Recommended dose per kg of complete feedingstuff: endo-1,4-beta-glucanase: 800 to 1 200 U endo-1,3(4)-beta-glucanase: 1 800 to 2 700 U endo-1,4-beta-xylanase: 2 600 to 3 900 U. 3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans and beta-glucans), e.g. containing more than 20 % wheat and 20 % barley.	30.9.2001 (g**)

No (or EC No)	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	Period of authorisation
					mg/kg of complete feedingstuff			
13	Endo-1,3(4)-beta-glucanase EC 3.2.1.6 Endo-1,4-beta-xylanase EC 3.2.1.8	Preparation of endo-1,3(4)-beta-glucanase and endo-1,4-beta-xylanase produced by *Trichoderma longibrachiatum* (CBS 357.94) having a minimum activity of: Powder form: 8 000 BGU ([16])/g 11 000 EXU ([17])/g Granulated form: 6 000 BGU/g 8 250 EXU/g Liquid form: 2 000 BGU/ml 2 750 EXU/ml	Chickens for fattening	—	100 BGU 130 EXU	— —	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting. 2. Recommended dose per kilogram of complete feedingstuff: 100 BGU 130 EXU. 3. For use in compound feed rich in non-starch polysaccharides (mainly beta-glucans and arabinoxylans), e.g. containing more than 30 % wheat and 30 % barley, or 20 % rye.	30.9.2001 ([g])
			Laying hens	—	600 BGU 800 EXU	— —	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. 2. Recommended dose per kg of complete feedingstuff: 600 BGU 800 EXU. 3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans and beta-glucans), e.g. containing more than 40 % wheat and more than 30 % barley.	30.9.2001 ([m])

No (or EC No)	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	Period of authorisation
					mg/kg of complete feedingstuff			
			Turkeys for fattening	—	600 BGU 800 EXU	— —	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. 2. Recommended dose per kg of complete feedingstuff: 600 BGU 800 EXU. 3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans and beta-glucans), e.g. containing more than 30% wheat or more than 30% rye.	30.9.2001 (m)
14	Endo-1,4-beta-xylanase EC 3.2.1.8	Preparation of endo-1,4-beta-xylanase produced by *Aspergillus niger* (CBS 520.94) having a minimum activity of: Solid form: Endo-1,4-beta-xylanase: 600 U (18)/g Liquid form: Endo-1,4-beta-xylanase: 300 U/ml	Chickens for fattening	—	Endo-1,4-beta-xylanase: 300 U	—	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting. 2. Recommended dose per kilogram complete feedingstuff: endo-1,4-beta-xylanase: 300 to 600 U. 3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans), e.g. containing more than 50% wheat.	30.9.2001 (g)
15	Endo-1,3(4)-beta-glucanase EC 3.2.1.6	Preparation of endo-1,3(4)-beta-glucanase produced by *Trichoderma viride* (CBS 517.94) having a minimum activity of: Solid form: Endo-1,3(4)-beta-glucanase: 650 U (19)/g Liquid form: Endo-1,3(4)-beta-glucanase: 325 U/ml	Chickens for fattening	—	Endo-1,3(4)-beta-glucanase: 325 U	—	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting. 2. Recommended dose per kilogram of complete feedingstuff: endo-1,3(4)-beta-glucanase: 325 to 650 U. 3. For use in compound feed rich in non-starch polysaccharides (mainly beta-glucans), e.g. containing more than 50% barley.	30.9.2001 (g)

No (or EC No)	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	Period of authorisation
					mg/kg of complete feedingstuff			
16	Endo-1,4-beta-glucanase EC 3.2.1.4	Preparation of endo-1,4-beta-glucanase produced by *Trichoderma longibrachiatum* (IMI SD 142) having a minimum activity of: Solid form: 2 000 CU ([20])/g Liquid form: 2 000 CU/ml	Chickens for fattening	—	250 CU	—	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. 2. Recommended dose per kg of complete feedingstuff: 500 to 1 000 CU. 3. For use in compound feed rich in non-starch polysaccharides (mainly beta-glucans), e.g. containing more than 40 % barley.	30.9.2001 ([g**])
			Laying hens	—	250 CU	—	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. 2. Recommended dose per kg of complete feedingstuff: 500 to 1 000 CU. 3. For use in compound feed rich in non-starch polysaccharides (mainly beta-glucans), e.g. containing more than 40 % barley.	30.9.2001 ([g**])
			Piglets	4 months	250 CU	—	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. 2. Recommended dose per kg of complete feedingstuff: 500 to 1 000 CU. 3. For use in compound feed rich in non-starch polysaccharides (mainly beta-glucans), e.g. containing more than 40 % barley.	30.9.2001 ([g**])

No (or EC No)	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	Period of authorisation
					mg/kg of complete feedingstuff			
			Pigs for fattening	—	250 CU	—	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. 2. Recommended dose per kg of complete feedingstuff: 500 to 1 000 CU. 3. For use in compound feed rich in non-starch polysaccharides (mainly beta-glucans), e.g. containing more than 40 % barley.	30.9.2001 (g**)
17	Endo-1,4-beta-xylanase EC 3.2.1.8	Preparation of endo-1,4-beta-xylanase produced by *Trichoderma longibrachiatum* (IMI SD 135) having a minimum activity of: Solid form: 6 000 EPU ([21])/g Liquid form: 6 000 EPU/ml	Chickens for fattening	—	750 EPU	—	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. 2. Recommended dose per kg of complete feedingstuff: 1 500 to 3 000 EPU. 3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans), e.g. containing more than 40 % wheat or maize.	30.9.2001 (g**)
			Laying hens	—	750 EPU	—	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. 2. Recommended dose per kg of complete feedingstuff: 1 500 to 3 000 EPU. 3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans), e.g. containing more than 40 % wheat or maize.	30.9.2001 (g**)

No (or EC No)	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	Period of authorisation
					mg/kg of complete feedingstuff			
			Piglets	4 months	750 EPU	—	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. 2. Recommended dose per kg of complete feedingstuff: 1 500 to 3 000 EPU. 3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans), e.g. containing more than 40% wheat or maize.	30.9.2001 (g**)
			Pigs for fattening	—	750 EPU	—	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. 2. Recommended dose per kg of complete feedingstuff: 1 500 to 3 000 EPU. 3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans), e.g. containing more than 40% wheat or maize.	30.9.2001 (g**)
			Turkeys for fattening	—	750 EPU	—	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. 2. Recommended dose per kg of complete feedingstuff: 1 500 to 3 000 EPU. 3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans), e.g. containing more than 35% wheat or maize.	30.9.2001 (n)

No (or EC No)	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	Period of authorisation
					mg/kg of complete feedingstuff			
18	Endo-1,3(4)-beta-glucanase EC 3.2.1.6	Preparation of endo-1,3(4)-beta-glucanase produced by *Aspergillus niger* (MUCL 39199) having a minimum activity of: Solid form: 2 000 AGL ([22])/g Liquid form: 500 AGL/ml	Chickens for fattening	—	100 AGL	—	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting. 2. Recommended dose per kilogram of complete feedingstuff: 100 AGL. 3. For use in compound feed rich in non-starch polysaccharides (mainly beta-glucans), e.g. containing more than 40% barley and 20% wheat.	30.9.2001 ([g])
19	Endo-1,3(4)-beta-glucanase EC 3.2.1.6	Preparation of endo-1,3(4)-beta-glucanase produced by *Aspergillus niger* (MUCL 39199) having a minimum activity of: Solid form: 1 500 AGL ([22])/g Liquid form: 200 AGL/g	Chickens for fattening	—	25 AGL	—	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting. 2. Recommended dose per kilogram of complete feedingstuff: 25 to 100 AGL. 3. For use in compound feed rich in non-starch polysaccharides (mainly beta-glucans), e.g. containing more than 50% barley.	30.9.2001 ([g])
20	Endo-1,4-beta-xylanase EC 3.2.1.8	Preparation of endo-1,4-beta-xylanase produced by *Trichoderma longibrachiatum* (MUCL 39203) having a minimum activity of: Solid form: 2 000 AXC ([23])/g Liquid form: 500 AXC/ml	Chickens for fattening	—	100 AXC	—	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting. 2. Recommended dose per kilogram of complete feedingstuff: 100 AXC. 3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans), e.g. containing more than 40% wheat or rye.	30.9.2001 ([g])

No (or EC No)	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	Period of authorisation
					mg/kg of complete feedingstuff			
21	Endo-1,4-beta-xylanase EC 3.2.1.8	Preparation of endo-1,4-beta-xylanase produced by *Trichoderma longibrachiatum* (MUCL 39203) having a minimum activity of: Solid form: 1 500 AXC ([23])/g Liquid form: 200 AXC/g	Chickens for fattening	—	25 AXC	—	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting. 2. Recommended dose per kilogram of complete feedingstuff: 25 to 100 AXC. 3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans), e.g. containing more than 50% wheat.	30.9.2001 ([g])
22	Endo-1,3(4)-beta-glucanase EC 3.2.1.6	Preparation of endo-1,3(4)-beta-glucanase produced by *Trichoderma longibrachiatum* (CNCM MA 6-10 W) having a minimum activity of: Solid form: 70 000 BGN ([24])/g Liquid form: 14 000 BGN/ml	Chickens for fattening	—	1 050 BGN	—	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting. 2. Recommended dose per kilogram of complete feedingstuff: 2 800 BGN. 3. For use in compound feed rich in non-starch polysaccharides (mainly beta-glucans), e.g. containing more than 50% barley.	30.9.2001 ([g])
23	Endo-1,4-beta-xylanase EC 3.2.1.8	Preparation of endo-1,4-beta-xylanase produced by *Trichoderma longibrachiatum* (CNCM MA 6-10 W) having a minimum activity of: Solid form: 70 000 IFP ([25])/g Liquid form: 7 000 IFP/ml	Chickens for fattening	—	1 050 IFP	—	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting. 2. Recommended dose per kilogram of complete feedingstuff: 1 400 IFP. 3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans), e.g. containing more than 56% wheat.	30.9.2001 ([g])

No (or EC No)	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	Period of authorisation
					mg/kg of complete feedingstuff			
24	Endo-1,4-beta-xylanase EC 3.2.1.8 Endo-1,3(4)-beta-glucanase EC 3.2.1.6	Preparation of endo-1,4-beta-xylanase and endo-1,3(4)-beta-glucanase produced by *Aspergillus niger* (CNCM I-1517) having a minimum activity of: 28 000 QXU ([26])/g 140 000 QGU ([27])/g	Chickens for fattening	—	420 QXU 2 100 QGU	1 120 QXU 5 600 QGU	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting. 2. Recommended dose per kilogram of complete feedingstuff: 560 QXU 2 800 QGU. 3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans and beta-glucans), e.g. containing more than 30 % wheat and 30 % barley.	30.9.2001 ([g])
25	Endo-1,3(4)-beta-glucanase EC 3.2.1.6 Endo-1,4-beta-xylanase EC 3.2.1.8	Preparation of endo-1,3(4)-beta-glucanase and endo-1,4-beta-xylanase produced by *Aspergillus niger* (NRRL 25541) having a minimum activity of: Endo-1,3(4)-beta-glucanase: 1 100 U ([28])/g Endo-1,4-beta-xylanase: 1 600 U ([29])/g	Chickens for fattening	—	Endo-1,3(4)-beta-glucanase: 138 U Endo-1,4-beta-xylanase: 200 U	— —	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting. 2. Recommended dose per kilogram of complete feedingstuff: endo-1,3(4)-beta-glucanase: 138 U endo-1,4-beta-xylanase: 200 U. 3. For use in compound feed rich in non-starch polysaccharides (mainly beta-glucans and arabinoxylans), e.g. containing more than 50 % barley or 30 % wheat and 30 % maize.	30.9.2001 ([g])

No (or EC No)	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	Period of authorisation
					mg/kg of complete feedingstuff			
			Laying hens	—	Endo-1,3(4)-beta-glucanase: 138 U Endo-1,4-beta-xylanase: 200 U	— —	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting. 2. Recommended dose per kilogram of complete feedingstuff: endo-1,3(4)-beta-glucanase: 138 U endo-1,4-beta-xylanase: 200 U. 3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans and beta-glucans), e.g. containing more than 50 % barley or 30 % wheat and 30 % maize.	30.9.2001 (g)
26	Endo-1,3(4)-beta-glucanase EC 3.2.1.6	Preparation of endo-1,3(4)-beta-glucanase produced by *Trichoderma reesei* (CBS 526.94) having a minimum activity of: Solid form: 350 000 BU ([30])/g Liquid form: 50 000 BU/g	Chickens for fattening	—	23 000 BU	—	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting. 2. Recommended dose per kilogram of complete feedingstuff: 23 000 to 50 000 BU. 3. For use in compound feed rich in non-starch polysaccharides (mainly glucans), e.g. containing more than 20 % barley or 30 % rye.	30.9.2001 (i)
			Piglets	4 months	26 000 BU	—	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting. 2. Recommended dose per kilogram of complete feedingstuff: 26 000 to 35 000 BU. 3. For use in compound feed rich in non-starch polysaccharides (mainly glucans), e.g. containing more than 60 % barley or wheat.	30.9.2001 (i)

No (or EC No)	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	Period of authorisation
					mg/kg of complete feedingstuff			
27	Endo-1,4-beta-xylanase EC 3.2.1.8 Endo-1,3(4)-beta-glucanase EC 3.2.1.6	Preparation of endo-1,4-beta-xylanase produced by *Trichoderma reesei* (CBS 529.94) and endo-1,3(4)-beta-glucanase produced by *Trichoderma reesei* (CBS 526.94) having minimum activities of: Solid form: 200 000 BXU ([31])/g 200 000 BU ([30])/g Liquid form: 30 000 BXU/g 30 000 BU/g	Chickens for fattening	—	2 500 BXU 2 500 BU	—	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting. 2. Recommended dose per kilogram of complete feedingstuff: 10 000 BXU 10 000 BU. 3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans and glucans), e.g. containing more than 40% wheat or 30% rye.	30.9.2001 (i)
28	3-Phytase EC 3.1.3.8	Preparation of 3-phytase produced by *Trichoderma reesei* (CBS 528.94) having a minimum activity of: Solid form: 5 000 PPU ([32])/g Liquid form: 1 000 PPU/g	Piglets	4 months	250 PPU	—	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting. 2. Recommended dose per kilogram of complete feedingstuff: 500 to 750 PPU. 3. For use in compound feed rich in phytates, e.g. containing more than 50% cereals (corn, barley, wheat), tapioca, oilseeds and pulses.	30.9.2001 (i)
			Pigs for fattening	—	500 PPU	—	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. 2. Recommended dose per kilogram of complete feedingstuff: 500 to 750 PPU. 3. For use in compound feed rich in phytates, e.g. containing more than 50% cereals (corn, barley, wheat), tapioca, oilseeds and pulses.	30.9.2001 (i)

No (or EC No)	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	Period of authorisation
					mg/kg of complete feedingstuff			
29	Endo-1,3(4)-beta-glucanase EC 3.2.1.6	Preparation of endo-1,3(4)-beta-glucanase produced by *Geosmithia emersonii* (IMI SD 133) having a minimum activity of: Endo-1,3(4)-beta-glucanase: 5 500 U ([33])/g	Chickens for fattening	—	Endo-1,3(4)-beta-glucanase: 250 U	—	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting. 2. Recommended dose per kg of complete feedingstuff: endo-1,3(4)-beta-glucanase: 250 U. 3. For use in compound feed rich in non-starch polysaccharides, (mainly beta-glucans), e.g. containing more than 50% barley.	30.9.2001 ([h])
30	Endo-1,3(4)-beta-glucanase EC 3.2.1.6 Endo-1,4-beta-xylanase EC 3.2.1.8	Preparation of endo-1,3(4)-beta-glucanase and endo-1,4-beta-xylanase produced by *Penicillium funiculosum* (IMI SD 101) having a minimum activity of: Powder form: Endo-1,3(4)-beta-glucanase: 2 000 U ([34])/g Endo-1,4-beta-xylanase: 1 400 U ([35])/g Liquid form: Endo-1,3(4)-beta-glucanase: 500 U/ml Endo-1,4-beta-xylanase: 350 U/ml	Chickens for fattening	—	Endo-1,3(4)-beta-glucanase: 100 U Endo-1,4-beta-xylanase: 70 U	— —	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting. 2. Recommended dose per kg of complete feedingstuff: endo-1,3(4)-beta-glucanase: 100 U endo-1,4-beta-xylanase: 70 U. 3. For use in compound feed rich in non-starch polysaccharides, (mainly beta-glucans and arabinoxylans), e.g. containing more than 50% barley or 60% wheat.	30.9.2001 ([h])

No (or EC No)	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	Period of authorisation
					mg/kg of complete feedingstuff			
31	Endo-1,4-beta-xylanase EC 3.2.1.8	Preparation of endo-1,4-beta-xylanase produced by *Trichoderma longibrachiatum* (CBS 614.94) having a minimum activity of: Solid form: 300 EU ([36])/g Liquid form: 1 000 EU/g	Chickens for fattening	—	600 EU	—	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. 2. Recommended dose per kg of complete feedingstuff: 600 EU. 3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans), e.g. containing more than 60% wheat.	30.9.2001 ([h])
			Laying hens	—	300 EU	—	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. 2. Recommended dose per kg of complete feedingstuff: 600 EU. 3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans), e.g. containing more than 60% wheat.	30.9.2001 ([h])
32	Endo-1,3(4)-beta-glucanase EC 3.2.1.6	Preparation of endo-1,3(4)-beta-glucanase produced by *Trichoderma longibrachiatum* (ATCC 2106) having a minimum activity of: Endo-1,3(4)-beta-glucanase: 200 U ([19])/ml	Chickens for fattening	—	Endo-1,3(4)-beta-glucanase: 100 U	—	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting. 2. Recommended dose per kg of complete feedingstuff: endo-1,3(4)-beta-glucanase: 100 U. 3. For use in compound feed rich in non-starch polysaccharides (mainly beta-glucans), e.g. containing more than 30% barley.	30.9.2001 ([i])

No (or EC No)	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	Period of authorisation
					mg/kg of complete feedingstuff			
		Endo-1,3(4)-beta-glucanase: 1 200 U/ml	Piglets	4 months	Endo-1,3(4)-beta-glucanase: 400 U	—	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting. 2. Recommended dose per kg of complete feedingstuff: endo-1,3(4)-beta-glucanase: 400 U. 3. For use in compound feed rich in non-starch polysaccharides (mainly beta-glucans), e.g. containing more than 55% barley.	30.9.2001 (i)
			Pigs for fattening	—	Endo-1,3(4)-beta-glucanase: 500 U	—	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting. 2. Recommended dose per kg of complete feedingstuff: endo-1,3(4)-beta-glucanase: 500 U. 3. For use in compound feed rich in non-starch polysaccharides (mainly beta-glucans), e.g. containing more than 70% barley.	30.9.2001 (i)
33	Endo-1,4-beta-xylanase EC 3.2.1.8	Preparation of endo-1,4-beta-xylanase produced by *Trichoderma longibrachiatum* (ATCC 2105) having a minimum activity of: Powder form: Endo-1,4-beta-xylanase: 2 000 U ([37])/g Liquid form: Endo-1,4-beta-xylanase: 5 000 U/ml	Chickens for fattening	—	Endo-1,4-beta-xylanase: 500 U	—	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting. 2. Recommended dose per kg of complete feedingstuff: endo-1,4-beta-xylanase: 500 to 2 500 U. 3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans), e.g. containing more than 55% wheat or 60% rye.	30.9.2001 (i)

No (or EC No)	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	Period of authorisation
					mg/kg of complete feedingstuff			
			Laying hens	—	Endo-1,4-beta-xylanase: 2 000 U	—	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting. 2. Recommended dose per kg of complete feedingstuff: endo-1,4-beta-xylanase: 2 000 U. 3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans), e.g. containing more than 35% wheat.	30.9.2001 [1]
		Powder form: Endo-1,4-beta-xylanase: 4 000 U/g Liquid form: Endo-1,4-beta-xylanase: 10 000 U/ml	Piglets	4 months	Endo-1,4-beta-xylanase: 5 000 U	—	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. 2. Recommended dose per kg of complete feedingstuff: endo-1,4-beta-xylanase: 5 000 U. 3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans), e.g. containing more than 45% wheat.	30.9.2001 [1]
		Powder form: Endo-1,4-beta-xylanase: 4 000 U/g Liquid form: Endo-1,4-beta-xylanase: 8 000 U/ml	Pigs for fattening	—	Endo-1,4-beta-xylanase: 4 000 U	—	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. 2. Recommended dose per kg of complete feedingstuff: endo-1,4-beta-xylanase: 4 000 U. 3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans), e.g. containing more than 35% wheat.	30.9.2001 [1]

No (or EC No)	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	Period of authorisation
					mg/kg of complete feedingstuff			
34	Endo-1,3(4)-beta-glucanase EC 3.2.1.6 Endo-1,4-beta-xylanase EC 3.2.1.8 Alpha-amylase EC 3.2.1.1	Preparation of endo-1,3(4)-beta-glucanase and endo 1,4-beta-xylanase produced by *Aspergillus niger* (NRRL 25541) and of alpha-amylase produced by *Aspergillus oryzae* (ATCC 66222) having a minimum activity of: Endo-1,3(4)-beta-glucanase: 275 U ([28])/g Endo-1,4-beta-xylanase: 400 U ([38])/g Alpha-amylase: 3 100 U ([39])/g	Piglets	4 months	Endo-1,3(4)-beta-glucanase: 165 U Endo-1,4-beta-xylanase: 240 U Alpha-amylase: 1 860 U	— — —	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and the stability to pelleting. 2. Recommended dose per kg of complete feedingstuff: endo-1,3(4)-beta-glucanase: 165 U endo-1,4-beta-xylanase: 240 U alpha-amylase: 1 860 U. 3. For use in compound feed containing cereals rich in starch and non-starch polysaccharides (mainly arabinoxylans and beta-glucans), e.g. containing more than 45% barley and 10% wheat or 10% maize.	30.9.2001 ([k])
35	Endo-1,3(4)-beta-glucanase EC 3.2.1.6 Endo-1,4-beta-xylanase EC 3.2.1.8	Preparation of endo-1,3(4)-beta-glucanase produced by *Trichoderma longibrachiatum* (ATCC 2106) and endo-1,4-beta-xylanase produced by *Trichoderma longibrachiatum* (ATCC 2105) having a minimum activity of: Endo-1,3(4)-beta-glucanase: 80 U ([19])/g Endo-1,4-beta-xylanase: 180 U ([37])/g	Laying hens	—	Endo-1,3(4)-beta-glucanase: 80 U Endo-1,4-beta-xylanase: 180 U	— —	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. 2. Recommended dose per kg of complete feedingstuff: endo-1,3(4)-beta-glucanase: 80 U endo-1,4-beta-xylanase: 180 U. 3. For use in compound feed rich in non-starch polysaccharides, (mainly beta-glucans and arabinoxylans), e.g. containing more than 60% barley.	30.9.2001 ([k])

No (or EC No)	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	Period of authorisation
					mg/kg of complete feedingstuff			
36	Endo-1,3(4)-beta-glucanase EC 3.2.1.6 Endo-1,4-beta-xylanase EC 3.2.1.8	Preparation of endo-1,3(4)-beta-glucanase produced by *Trichoderma longibrachiatum* (ATCC 2106) and endo-1,4-beta- xylanase produced by *Trichoderma longibrachiatum* IMI SD 135) having a minimum activity of: endo-1,3(4)-beta-glucanase: 300 U ([19])/g endo-1,4-beta-xylanase: 300 U ([37])/g	Chickens for fattening	—	Endo-1,3(4)-beta-glucanase: 300 U Endo-1,4-beta-xylanase: 300 U	— —	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. 2. Recommended dose per kg of complete feedingstuff: endo-1,3(4)-beta-glucanase: 300 U endo-1,4-beta-xylanase: 300 U. 3. For use in compound feed rich in non-starch polysaccharides, (mainly beta-glucans and arabinoxylans), e.g. containing more than 40 % barley.	30.9.2001 ([k])
			Laying hens	—	Endo-1,3(4)-beta-glucanase: 300 U Endo-1,4-beta-xylanase: 300 U	— —	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. 2. Recommended dose per kg of complete feedingstuff: endo-1,3(4)-beta-glucanase: 300 U endo-1,4-beta-xylanase: 300 U. 3. For use in compound feed rich in non-starch polysaccharides, (mainly beta-glucans and arabinoxylans), e.g. containing more than 35 % barley.	30.9.2001 ([k])
37	Endo-1,4-beta-xylanase EC 3.2.1.8 Subtilisin EC 3.4.21.62	Preparation of endo-1,4-beta-xylanase produced by *Trichoderma longibrachiatum* (ATCC 2105) and subtilisin produced by *Bacillus subtilis* (ATCC 2107), with a minimum activity of: Endo-1,4-beta-xylanase: 2 500 U ([37])/g Subtilisin: 800 U ([40])/g	Chickens for fattening	—	Endo-1,4-beta-xylanase: 500 U Subtilisin: 160 U	— —	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. 2. Recommended dose per kg of complete feedingstuff: endo-1,4-beta-xylanase: 500-2 500 U subtilisin: 160-800 U. 3. For use in compound feed e.g. containing more than 65 % wheat.	30.9.2001 ([k])

No (or EC No)	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	Period of authorisation
					mg/kg of complete feedingstuff			
			Turkeys	—	Endo-1,4-beta-xylanase: 825 U Subtilisin: 265 U	— —	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. 2. Recommended dose per kg of complete feedingstuff: endo-1,4-beta-xylanase: 825 to 2 500 U subtilisin: 265 to 800 U. 3. For use in compound feed e.g. containing more than 45 % wheat.	30.9.2001 [k]
38	Endo-1,4-beta-xylanase EC 3.2.1.8 Subtilisin EC 3.4.21.62	Preparation of endo-1,4-beta-xylanase produced by *Trichoderma longibrachiatum* (ATCC 2105) and subtilisin produced by *Bacillus subtilis* (ATCC 2107) having a minimum activity of: Endo-1,4-beta-xylanase: 5 000 U ([37])/g Subtilisin: 500 U ([40])/g	Piglets	4 months	Endo-1,4-beta-xylanase: 5 000 U Subtilisin: 500 U	— —	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. 2. Recommended dose per kg of complete feedingstuff: endo-1,4-beta-xylanase: 5 000 U subtilisin: 500 U. 3. For use in compound feed e.g. containing more than 40 % wheat.	30.9.2001 [k]
39	Endo-1,3(4)-beta-glucanase EC 3.2.1.6 Endo-1,4-beta-xylanase EC 3.2.1.8	Preparation of endo-1,3(4)-beta-glucanase produced by *Trichoderma longibrachiatum* (ATCC 2106) and endo-1,4-beta-xylanase produced by *Trichoderma longibrachiatum* (ATCC 2105) having a minimum activity of: Endo-1,3(4)-beta-glucanase: 400 U ([19])/g Endo-1,4-beta-xylanase: 400 U ([37])/g	Pigs for fattening	—	Endo-1,3(4)-beta-glucanase: 400 U Endo-1,4-beta-xylanase: 400 U	— —	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. 2. Recommended dose per kg of complete feedingstuff: endo-1,3(4)-beta-glucanase: 400 U endo-1,4-beta-xylanase: 400 U. 3. For use in compound feed rich in non-starch polysaccharides (mainly beta-glucans and arabinoxylans) e.g. containing more than 65 % barley.	30.9.2001 [k]

No (or EC No)	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	Period of authorisation
					mg/kg of complete feedingstuff			
40	Endo-1,3(4)-beta-glucanase EC 3.2.1.6 Endo-1,4-beta-xylanase EC 3.2.1.8 Subtilisin EC 3.4.21.62	Preparation of endo-1,3(4)-beta-glucanase produced by *Trichoderma longibrachiatum* (ATCC 2106), endo-1,4-beta-xylanase produced by *Trichoderma longibrachiatum* (ATCC 2105) and subtilisin produced by *Bacillus subtilis* (ATCC 2107) having a minimum activity of: Endo-1,3(4)-beta-glucanase: 100 U ([19])/g Endo-1,4-beta-xylanase: 300 U ([37])/g Subtilisin: 800 U ([40])/g	Chickens for fattening	—	Endo-1,3(4)-beta-glucanase: 30 U Endo-1,4-beta-xylanase: 90 U Subtilisin: 240 U	— — —	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. 2. Recommended dose per kg of complete feedingstuff: endo-1,3(4)-beta-glucanase: 30 to 100 U endo-1,4-beta-xylanase: 90 to 300 U subtilisin: 240 to 800 U. 3. For use in compound feed e.g. containing more than 60% barley.	30.9.2001 ([k])
41	Endo-1,3(4)-beta-glucanase EC 3.2.1.6 Endo-1,4-beta-xylanase EC 3.2.1.8 Subtilisin EC 3.4.21.62	Preparation of endo-1,3(4)-beta-glucanase produced by *Trichoderma longibrachiatum* (ATCC 2106), endo-1,4-beta-xylanase produced by *Trichoderma longibrachiatum* (ATCC 2105) and subtilisin produced by *Bacillus subtilis* (ATCC 2107) having a minimum activity of: Endo-1,3(4)-beta-glucanase: 100 U ([19])/g Endo-1,4-beta-xylanase: 2 500 U ([37])/g Subtilisin: 800 U ([40])/g	Chickens for fattening	—	Endo-1,3(4)-beta-glucanase: 25 U Endo-1,4-beta-xylanase: 625 U Subtilisin: 200 U	— — —	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. 2. Recommended dose per kg of complete feedingstuff: endo-1,3(4)-beta-glucanase: 25 to 100 U endo-1,4-beta-xylanase: 625 to 2 500 U subtilisin: 200 to 800 U. 3. For use in compound feed e.g. containing more than 30% wheat and 10% barley.	30.9.2001 ([k])
			Laying hens	—	Endo-1,3(4)-beta-glucanase: 100 U Endo-1,4-beta-xylanase: 2 500 U Subtilisin: 800 U	— — —	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. 2. Recommended dose per kg of complete feedingstuff: endo-1,3(4)-beta-glucanase: 100 U endo-1,4-beta-xylanase: 2 500 U subtilisin: 800 U. 3. For use in compound feed e.g. containing more than 50% wheat and 25% barley.	30.9.2001 ([k])

No (or EC No)	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	Period of authorisation
					mg/kg of complete feedingstuff			
42	Endo-1,4-beta-xylanase EC 3.2.1.8	Preparation of endo-1,4-beta-xylanase produced by *Trichoderma longibrachiatum* (IMI SD 135) having a minimum activity of: Solid form: Endo-1,4-beta-xylanase: 4 000 U ([37])/g Characteristics of the authorised preparation: Endo-1,4-beta-xylanase: 1,99 % Wheat: 97,7 % Calcium propionate: 0,3 % Lecithin: 0,01 %	Piglets	4 months	Endo-1,4-beta-xylanase: 4 000 U	—	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. 2. Recommended dose per kg of complete feedingstuff: endo-1,4-beta-xylanase: 4 000 U. 3. For use in compound feed rich in non-starch polysaccharides, (mainly arabinoxylans), e.g. containing more than 60 % wheat.	30.9.2001 ([k])
			Pigs for fattening	—	Endo-1,4-beta-xylanase: 4 000 U	—	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. 2. Recommended dose per kg of complete feedingstuff: endo-1,4-beta-xylanase: 4 000 U. 3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans), e.g. containing more than 60 % wheat.	30.9.2001 ([m])
43	Endo-1,4-beta-xylanase EC 3.2.1.8 Endo-1,3(4)-beta-glucanase EC 3.2.1.6 Alpha-amylase EC 3.2.1.1	Preparation of endo-1,4-beta-xylanase produced by *Trichoderma longibrachiatum* (IMI SD 135), endo-1,3(4)-beta-glucanase produced by *Trichoderma longibrachiatum* (ATCC 2106) and alpha-amylase produced by *Bacillus amyloliquefaciens* (DSM 9553) having a minimum activity of: Endo-1,4-beta-xylanase: 3 975 U ([37])/g Endo-1,3(4)-beta-glucanase: 125 U ([19])/g Alpha-amylase: 1 000 U ([41])/g	Piglets	4 months	Endo-1,4-beta-xylanase: 3 975 U Endo-1,3(4)-beta-glucanase: 125 U Alpha-amylase: 1 000 U	— — —	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. 2. Recommended dose per kg of complete feedingstuff: endo-1,4-beta-xylanase: 3 975 U endo-1,3(4)-beta-glucanase: 125 U alpha-amylase: 1 000 U. 3. For use in compound feed containing cereals rich in starch and non-starch polysaccharides (mainly arabinoxylans and beta-glucans), e.g. containing more than 30 % wheat and 20 % barley and 20 % rye.	30.9.2001 ([l])

No (or EC No)	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	Period of authorisation
					mg/kg of complete feedingstuff			
44	Endo-1,3(4)-beta-glucanase EC 3.2.1.6 Endo-1,4-beta-xylanase EC 3.2.1.8 Alpha-amylase EC 3.2.1.1	Preparation of endo-1,3(4)-beta-glucanase produced by *Trichoderma longibrachiatum* (ATCC 2106) and endo-1,4-beta-xylanase produced by *Trichoderma longibrachiatum* (ATCC 2105) and alpha-amylase produced by *Bacillus amyloliquefaciens* (DSM 9553) having a minimum activity of: Endo-1,3(4)-beta-glucanase: 250 U ([19])/g Endo-1,4-beta-xylanase: 400 U ([37])/g Alpha-amylase: 1 000 U ([41])/g	Piglets	4 months	Endo-1,3(4)-beta-glucanase: 250 U Endo-1,4-beta-xylanase: 400 U Alpha-amylase: 1 000 U	— — —	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. 2. Recommended dose per kg of complete feedingstuff: endo-1,3(4)-beta-glucanase: 250 U endo-1,4-beta-xylanase: 400 U alpha-amylase: 1 000 U. 3. For use in compound feed containing cereals rich in starch and non-starch polysaccharides (mainly arabinoxylans and beta-glucans), e.g. containing more than 50 % barley.	30.9.2001 ([l])
45	Endo-1,3(4)-beta-glucanase EC 3.2.1.6 Endo-1,4-beta-xylanase EC 3.2.1.8 Alpha-amylase EC 3.2.1.1	Preparation of endo-1,3(4)-beta-glucanase produced by *Trichoderma longibrachiatum* (ATCC 2106) and endo-1,4-beta-xylanase produced by *Trichoderma longibrachiatum* (IMI SD 135) and alpha-amylase produced by *Bacillus amyloliquefaciens* (DSM 9553) having a minimum activity of: Endo-1,3(4)-beta-glucanase: 250 U ([19])/g Endo-1,4-beta-xylanase: 400 U ([37])/g Alpha-amylase: 1 000 U ([41])/g	Piglets	4 months	Endo-1,3(4)-beta-glucanase: 250 U Endo-1,4-beta-xylanase: 400 U Alpha-amylase: 1 000 U	— — —	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. 2. Recommended dose per kg of complete feedingstuff: endo-1,3(4)-beta-glucanase: 250 U endo-1,4-beta-xylanase: 400 U alpha-amylase: 1 000 U. 3. For use in compound feed containing cereals rich in starch and non-starch polysaccharides (mainly arabinoxylans and beta-glucans), e.g. containing more than 35 % barley.	30.9.2001 ([l])

No (or EC No)	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	Period of authorisation
					mg/kg of complete feedingstuff			
46	Endo-1,3(4)-beta-glucanase EC 3.2.1.6 Endo-1,4-beta-xylanase EC 3.2.1.8 Polygalacturonase EC 3.2.1.15	Preparation of endo-1,3(4)-beta-glucanase produced by *Trichoderma longibrachiatum* (ATCC 2106) and endo-1,4-beta-xylanase produced by *Trichoderma longibrachiatum* (IMI SD 135) and polygalacturonase produced by *Aspergillus aculeatus* (CBS 589.94) having a minimum activity of: Endo-1,3(4)-beta-glucanase: 400 U ([19])/g Endo-1,4-beta-xylanase: 400 U ([37])/g Polygalacturonase: 50 U ([41])/g	Pigs for fattening	—	Endo-1,3(4)-beta-glucanase: 400 U Endo-1,4-beta-xylanase: 400 U Polygalacturonase: 50 U	— — —	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. 2. Recommended dose per kg of complete feedingstuff: endo-1,3(4)-beta-glucanase: 400 U endo-1,4-beta-xylanase: 400 U polygalacturonase: 50 U. 3. For use in compound feed containing cereals rich in starch and non-starch polysaccharides (mainly arabinoxylans and beta-glucans), e.g. containing more than 40% barley.	30.9.2001 ([l])
47	Endo-1,3(4)-beta-glucanase EC 3.2.1.6 Endo-1,4-beta-xylanase EC 3.2.1.8 Alpha-amylase EC 3.2.1.1 Polygalacturonase EC 3.2.1.15	Preparation of endo-1,3(4)-beta-glucanase produced by *Trichoderma longibrachiatum* (ATCC 2106), endo-1,4-beta-xylanase produced by *Trichoderma longibrachiatum* (IMI SD 135), alpha-amylase produced by *Bacillus amyloliquefaciens* (DSM 9553), polygalacturonase produced by *Aspergillus aculeatus* (CBS 589.94) having a minimum activity of: Endo-1,3(4)-beta-glucanase: 150 U ([19])/g Endo-1,4-beta-xylanase: 4 000 U ([37])/g Alpha-amylase: 1 000 U ([41])/g Polygalacturonase: 25 U ([42])/g	Piglets	4 months	Endo-1,3(4)-beta-glucanase: 150 U Endo-1,4-beta-xylanase: 4 000 U Alpha-amylase: 1 000 U Polygalacturonase: 25 U	— — — —	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. 2. Recommended dose per kg of complete feedingstuff: endo-1,3(4)-beta-glucanase: 150 U endo-1,4-beta-xylanase: 4 000 U alpha-amylase: 1 000 U polygalacturonase: 25 U. 3. For use in compound feed containing cereals rich in starch and non-starch polysaccharides (mainly arabinoxylans and beta-glucans), e.g. containing more than 20% barley and 35% wheat.	30.9.2001 ([l])

No (or EC No)	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	Period of authorisation
					mg/kg of complete feedingstuff			
48	Alpha-amylase EC 3.2.1.1 Endo-1,3(4)-beta-glucanase EC 3.2.1.6	Preparation of alpha-amylase and endo-1,3(4)-beta-glucanase produced by *Bacillus amyloliquefaciens* (DSM 9553) having a minimum activity of: Coated form: Alpha-amylase: 200 KNU ([43])/g Endo-1,3(4)-beta-glucanase: 350 FBG ([44])/g Liquid form: Alpha-amylase: 130 KNU/ml Endo-1,3(4)-beta-glucanase: 225 FBG/ml	Chickens for fattening	—	10 KNU 17 FBG	40 KNU 70 FBG	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. 2. Recommended dose per kg of complete feedingstuff: 20 KNU 35 FBG. 3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans and beta-glucans), e.g. containing more than 40% barley.	30.9.2001 ([m])
			Turkeys for fattening	—	40 KNU 70 FBG	80 KNU 140 FBG	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. 2. Recommended dose per kg of complete feedingstuff: 40 KNU 70 FBG. 3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans and beta-glucans), e.g. containing more than 40% barley.	30.9.2001 ([m])

No (or EC No)	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	Period of authorisation
					mg/kg of complete feedingstuff			
49	Endo-1,3(4)-beta-glucanase EC 3.2.1.6 Endo-1,4-beta-xylanase EC 3.2.1.8 Alpha-amylase: EC 3.2.1.1 Bacillolysin EC EC 3.4.24.28 Polygalacturonase EC 3.2.1.15	Preparation of endo-1,3(4)-beta-glucanase produced by *Trichoderma longibrachiatum* (ATCC 2106), endo-1,4-beta-xylanase produced by *Trichoderma longibrachiatum* (IMI SD 135), alpha-amylase produced by *Bacillus amyloliquefaciens* (DSM 9553), bacillolysin produced by *Bacillus amyloliquefaciens* (DSM 9554) and polygalacturonase produced by *Aspergillus aculeatus* (CBS 589.94) having a minimum activity of: Endo-1,3(4)-beta-glucanase: 150 U ([19])/g Endo-1,4-beta-xylanase: 1 500 U ([37])/g Alpha-amylase: 500 U ([41])/g Bacillolysin: 800 U ([40])/g Polygalacturonase: 50 U ([42])/g	Chickens for fattening	—	Endo-1,3(4)-beta-glucanase: 150 U Endo-1,4-beta-xylanase: 1 500 U Alpha-amylase: 500 U Bacillolysin: 800 U Polygalacturonase: 50 U	— — — — —	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. 2. Recommended dose per kg of complete feedingstuff: endo-1,3(4)-beta-glucanase: 150 U endo-1,4-beta-xylanase: 1 500 U alpha-amylase: 500 U bacillolysin: 800 U polygalacturonase: 50 U. 3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans and beta-glucans), e.g. containing more than 30% wheat.	30.9.2001 ([n])
			Laying hens	—	Endo-1,3(4)-beta-glucanase: 150 U Endo-1,4-beta-xylanase: 1 500 U Alpha-amylase: 500 U Bacillolysin: 800 U Polygalacturonase: 50 U	— — — — —	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. 2. Recommended dose per kg of complete feedingstuff: endo-1,3(4)-beta-glucanase: 150 U endo-1,4-beta-xylanase: 1 500 U alpha-amylase: 500 U bacillolysin: 800 U polygalacturonase: 50 U. 3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans and beta-glucans), e.g. containing more than 30% wheat.	30.9.2001 ([n])

No (or EC No)	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	Period of authorisation
					mg/kg of complete feedingstuff			
50	6-phytase EC 3.1.3.26	Preparation of 6-phytase produced by *Aspergillus oryzae* (DSM 11857) having a minimum activity of: Coated form: 2 500 FYT ([3])/g Liquid form: 5 000 FYT/g	Chickens for fattening	—	250 FYT	—	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. 2. Recommended dose per kg of complete feedingstuff: 500 to 1 000 FYT. 3. For use in compound feed containing more than 0,25% phytin bound phosphorus.	30.9.2001 ([n])
			Laying hens	—	250 FYT	—	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. 2. Recommended dose per kg of complete feedingstuff: 500 to 1 000 FYT. 3. For use in compound feed containing more than 0,25% phytin bound phosphorus.	30.9.2001 ([n])
			Turkeys for fattening	—	250 FYT	—	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. 2. Recommended dose per kg of complete feedingstuff: 500 to 1 000 FYT. 3. For use in compound feed containing more than 0,25% phytin bound phosphorus.	30.9.2001 ([n])
			Piglets	2 months	500 FYT	—	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. 2. Recommended dose per kg of complete feedingstuff: 500 to 1 000 FYT. 3. For use in compound feed containing more than 0,25% phytin bound phosphorus.	30.9.2001 ([n])

No (or EC No)	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	Period of authorisation
					mg/kg of complete feedingstuff			
			Pigs for fattening	—	500 FYT	—	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. 2. Recommended dose per kg of complete feedingstuff: 500 to 1 000 FYT. 3. For use in compound feed containing more than 0,25% phytin bound phosphorus.	30.9.2001 [n]
51	Endo-1,4-beta-xylanase EC 3.2.1.8	Preparation of endo-1,4-beta-xylanase produced by *Bacillus subtilis* (LMG-S 15136) having a minimum activity of: 100 IU [45]/g	Chickens for fattening	—	10 IU	—	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. 2. Recommended dose per kg of complete feedingstuff: 10 IU. 3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans), e.g. containing more than 40% wheat.	30.9.2001 [n]
52	Endo-1,3(4)-beta-glucanase EC 3.2.1.6 Endo-1,4-beta-glucanase EC 3.2.1.4 Alpha-amylase: EC 3.2.1.1	Preparation of endo-1,3(4)-beta-glucanase produced by *Aspergillus aculeatus* (CBS 589.94), endo-1,4-beta-glucanase produced by *Trichoderma longibrachiatum* (CBS 592.94) and alpha-amylase produced by *Bacillus amyloliquefaciens* (DSM 9553) having a minimum activity of: Liquid form: Endo-1,3(4)-beta-glucanase: 10 000 U [46]/ml Endo-1,4-beta-glucanase: 120 000 U [47]/ml Alpha-amylase: 400 U [48]/ml	Chickens for fattening	—	Endo-1,3(4)-beta-glucanase: 1 000 U Endo-1,4-beta-glucanase: 12 000 U Alpha-amylase: 40 U	— — —	1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. 2. Recommended dose per kg of complete feedingstuff: endo-1,3(4)-beta-glucanase: 1 000 to 2 000 U endo-1,4-beta-glucanase: 12 000 to 24 000 U alpha-amylase: 40 to 80 U. 3. For use in compound feed rich in non starch polysaccharides (mainly arabinoxylans and beta-glucans) e.g. containing more than 20% wheat and 15% sorghum and 5% maize.	30.9.2001 [n]

No (or EC No)	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	Period of authorisation
					CFU/kg of complete feedingstuff			
Micro-organisms								
1	*Bacillus cereus* var. *toyoi* NCIMB 40112/ CNCM I-1012	Preparation of *Bacillus cereus* var. *toyoi* containing a minimum of 1×10^{10} CFU/g additive	Chickens for fattening	—	$0{,}2 \times 10^{9}$	1×10^{9}	In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. May be used in compound feed containing the permitted coccidiostats: monensin sodium, lasolacid sodium, salinomycin sodium, amprolium-ethopabate, meticlorpindol-methyl benzoquate, decoquinate, robenidine, narasin, halofuginone.	20.2.2001 (i)
			Laying hens	—	$0{,}2 \times 10^{9}$	1×10^{9}	In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting.	20.2.2001 (i)
			Calves	6 months	$0{,}5 \times 10^{9}$	1×10^{9}	In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting	20.2.2001 (i)
			Cattle for fattening	—	$0{,}2 \times 10^{9}$	$0{,}2 \times 10^{9}$	In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. The quantity of *Bacillus cereus* var. *toyoi* in the daily ration must not exceed $1{,}0 \times 10^{9}$ CFU for 100 kg body weight. Add $0{,}2 \times 10^{9}$ CFU for each additional 100 kg body weight.	20.2.2001 (i)

No (or EC No)	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	Period of authorisation
					CFU/kg of complete feedingstuff			
			Breeding does	—	$0,1 \times 10^9$	5×10^9	In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. May be used in compound feed containing the permitted coccidiostats: robenidine.	20.2.2001 (i)
			Rabbits for fattening	—	$0,1 \times 10^9$	5×10^9	In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. May be used in compound feed containing the permitted coccidiostats: meticlorpindol, robenidine, salinomycin sodium.	20.2.2001 (i)
3	*Saccharomyces cerevisiae* NCYC Sc 47	Preparation of *Saccharomyces cerevisiae* containing a minimum of 5×10^9 CFU/g additive	Cattle for fattening	—	4×10^9	8×10^9	Indicate in the instructions for use: 'The quantity of *Saccharomyces cerevisiae* in the daily ration must not exceed $2,5 \times 10^{10}$ CFU for 100 kg of bodyweight. Add $0,5 \times 10^{10}$ CFU for each additional 100 kg bodyweight.'	20.2.2001 (b)
			Rabbits for fattening	—	$2,5 \times 10^9$	5×10^9	In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting. May be used in compound feed containing the permitted coccidiostat: meticlorpindol.	30.9.2001 (g)
			Sows	—	5×10^9	$2,5 \times 10^{10}$	In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.	30.9.2001 (g)
			Piglets	4 months	5×10^9	1×10^{10}	In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.	30.9.2001 (g)

No (or EC No)	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	Period of authorisation
					CFU/kg of complete feedingstuff			
4	*Bacillus cereus* ATCC 14893	Preparation of *Bacillus cereus* containing a minimum 10^{10} CFU/g additive	Rabbits for fattening	—	$0,5 \times 10^9$	2×10^9	—	20.2.2001 [b]
			Breeding rabbits	—	$0,5 \times 10^9$	2×10^9	—	20.2.2001 [b]
			Piglets	4 months	5×10^8	1×10^{10}	In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.	20.2.2001 [g]
			Pigs for fattening	—	2×10^8	1×10^9	In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.	20.2.2001 [g]
			Sows	15 days before farrowing and during lactation	$8,5 \times 10^8$	$1,2 \times 10^9$	In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.	20.2.2001 [g]
			Calves	16 weeks	1×10^9	$1,2 \times 10^9$	In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.	20.2.2001 [g]
			Chickens for fattening	—	2×10^8	1×10^9	In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting. May be used in compound feed containing the permitted coccidiostats: amprolium, halofuginone, lasalocid sodium, maduramicin ammonium, monensin sodium, narasin, salinomycin sodium, meticlorpindol, diclazuril.	20.2.2001 [g]

No (or EC No)	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	Period of authorisation
					CFU/kg of complete feedingstuff			
			Turkeys for fattening	26 weeks	2×10^8	1×10^9	In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting. May be used in compound feed containing the permitted coccidiostats: amprolium, halofuginone, meticlorpindol/methylbenzoquate, diclazuril, nifursol.	20.2.2001 (g)
5	*Saccharomyces cerevisiae* CBS 493.94	Preparation of *Saccharomyces cerevisiae* containing a minimum of: 1×10^8 CFU/g additive	Calves	6 months	2×10^8	2×10^9	In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.	30.9.2001 (g)
			Cattle for fattening	—	$1{,}7 \times 10^8$	$1{,}7 \times 10^8$	In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. The quantity of *Saccharomyces cerevisiae* in the daily ration must not exceed $7{,}5 \times 10^8$ CFU for 100 kg body weight. Add 1×10^8 CFU for each additional 100 kg body weight.	30.9.2001 (h)
6	*Saccharomyces cerevisiae* CNCM I-1079	Preparation of *Saccharomyces cerevisiae* containing a minimum of: 2×10^{10} CFU/g additive	Sows	—	2×10^9	1×10^{10}	In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.	30.9.2001 (g)
			Piglets	4 months	6×10^9	3×10^{10}	In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.	30.9.2001 (g)

No (or EC No)	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	Period of authorisation
					CFU/kg of complete feedingstuff			
7	*Saccharomyces cerevisiae* CNCM I-1077	Preparation of *Saccharomyces cerevisiae* containing a minimum of: 2×10^{10} CFU/g additive	Dairy cows	—	$5{,}5 \times 10^{8}$	$2{,}1 \times 10^{9}$	In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting. The quantity of *Saccharomyces cerevisiae* in the daily ration must not exceed $8{,}4 \times 10^{9}$ CFU for 100 kg body weight. Add $1{,}8 \times 10^{9}$ CFU for each additional 100 kg body weight.	30.9.2001 (g)
			Cattle for fattening	—	1×10^{9}	$1{,}5 \times 10^{9}$	In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting. The quantity of *Saccharomyces cerevisiae* in the daily ration must not exceed $4{,}6 \times 10^{9}$ CFU for 100 kg bodyweight. Add 2×10^{9} CFU for each additional 100 kg bodyweight.	30.9.2001 (g)
8	*Enterococcus faecium* ATCC 53519 *Enterococcus faecium* ATCC 55593 [In a 1/1 ratio]	Mixture of: encapsulated *Enterococcus faecium* ATCC 53519 and encapsulated *Enterococcus faecium* ATCC 55593 containing a minimum of 2×10^{8} CFU/g of the additive (i.e. a minimum of 1×10^{8} CFU/g of each bacterium)	Chickens for fattening	—	1×10^{8}	1×10^{8}	In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting. May be used in compound feed containing the permitted coccidiostats: amprolium, decoquinate, halofuginone, lasalocid sodium, maduramicin ammonium, monensin sodium, narasin, nicarbazin, narasin/nicarbazin, salinomycin sodium.	30.9.2001 (g)

No (or EC No)	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	Period of authorisation
					CFU/kg of complete feedingstuff			
9	*Pediococcus acidilactici* CNCM MA 18/5M	Preparation of *Pediococcus acidilactici* containing a minimum of 1×10^{10} CFU/g of additive	Chickens for fattening	—	1×10^{9}	1×10^{10}	In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. May be used in compound feed containing the permitted coccidiostats: amprolium, meticlorpindol, decoquinate, halofuginone, narasin, salinomycin sodium, nicarbazin, maduramicin ammonium, diclazuril.	30.9.2001 [h]
			Piglets	4 months	1×10^{9}	1×10^{9}	In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting.	30.9.2001 [h]
			Pigs for fattening	—	1×10^{9}	1×10^{9}	In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting.	30.9.2001 [h]
10	*Enterococcus faecium* NCIMB 10415	Preparation of *Enterococcus faecium* containing a minimum of: Microencapsulated form: $1{,}0 \times 10^{10}$ CFU/g additive $1{,}75 \times 10^{10}$ CFU/g additive	Chickens for fattening	—	$0{,}3 \times 10^{9}$	$2{,}8 \times 10^{9}$	In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. May be used in compound feed containing the permitted coccidiostats: amprolium, amprolium/ethopabate, diclazuril, halofuginone, maduramicin ammonium, meticlorpindol, meticlorpindol/methylbenzoquate, monensin sodium, robenidine, salinomycin sodium.	30.9.2001 [h]

No (or EC No)	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	Period of authorisation
					CFU/kg of complete feedingstuff			
			Pigs for fattening	—	$0,35 \times 10^9$	$1,5 \times 10^9$	In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting.	30.9.2001 (h)
			Sows	—	$0,2 \times 10^9$	$1,25 \times 10^9$	In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting.	30.9.2001 (h)
			Cattle for fattening	—	$0,25 \times 10^9$	$0,6 \times 10^9$	In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. The quantity of *Enterococcus faecium* in the daily ration must not exceed 1×10^9 CFU for 100 kg body weight. Add 1×10^9 CFU for each additional 100 kg body weight.	30.9.2001 (h)
		Preparation of *Enterococcus faecium* containing a minimum of: microencapsulated form: $1,0 \times 10^{10}$ CFU/g additive $1,75 \times 10^{10}$ CFU/g additive and granulated form: $3,5 \times 10^{10}$ CFU/g additive	Piglets	4 months	$0,3 \times 10^9$	$1,4 \times 10^9$	In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. Granulated form to be used exclusively in milk replacers.	30.9.2001 (h)
			Calves	6 months	$0,35 \times 10^9$	$6,6 \times 10^9$	In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. Granulated form to be used exclusively in milk replacers.	30.9.2001 (h)

No (or EC No)	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	Period of authorisation
					CFU/kg of complete feedingstuff			
11	*Enterococcus faecium* DSM 5464	Preparation of *Enterococcus faecium* containing a minimum of: 5×10^{10} CFU/g additive	Piglets	4 months	$0{,}5 \times 10^{9}$	1×10^{9}	In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting.	30.9.2001 [h]
			Chickens for fattening	—	$0{,}5 \times 10^{9}$	1×10^{9}	In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. May be used in compound feed containing the permitted coccidiostats: amprolium, diclazuril, halofuginone, monensin-sodium, metilclorpindol, methylbenzoquate, nicarbazin.	30.9.2001 [m]
			Calves	4 months	$0{,}5 \times 10^{9}$	1×10^{9}	In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting.	30.9.2001 [m]
12	*Lactobacillus farciminis* CNCM MA 67/4R	Preparation of *Lactobacillus farciminis* containing a minimum of: 1×10^{9} CFU/g additive	Piglets	4 months	1×10^{9}	1×10^{10}	In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting.	30.9.2001 [i]

No (or EC No)	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	Period of authorisation
					CFU/kg of complete feedingstuff			
13	*Enterococcus faecium* DSM 10663/ NCIMB 10415	Preparation of *Enterococcus faecium* containing a minimum of: powder and granulated forms: $3,5 \times 10^{10}$ CFU/g additive coated form: $2,0 \times 10^{10}$ CFU/g additive liquid form: 1×10^{10} CFU/ml additive	Piglets	4 months	1×10^9	1×10^{10}	In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting.	30.9.2001 [i]
			Calves	6 months	1×10^9	1×10^{10}	In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting	30.9.2001 [k]
			Chickens for fattening	—	1×10^9	1×10^{10}	In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. May be used in compound feed containing the permitted coccidiostats: amprolium, amprolium-ethopabat, decoquinate, diclazuril, halofuginone, lasalocid sodium, maduramicin ammonium, meticlorpindol/ methylbenzoquate, monensin sodium, narasin, nicarbazin, robenidine, salinomycin sodium.	30.9.2001 [k]
14	*Saccharomyces cerevisiae* MUCL 39885	Preparation of *Saccharomyces cerevisiae* containing a minimum of: Powder, spheric and oval granulated forms: 1×10^9 CFU/g additive	Piglets	4 months	3×10^9	3×10^9	In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting.	30.9.2001 [i]
			Cattle for fattening	—	9×10^9	9×10^9	In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. The quantity of *Saccharomyces cerevisiae* in the daily ration must not exceed $1,6 \times 10^{10}$ CFU per 100 kg body weight. Add $3,2 \times 10^9$ CFU for each additional 100 kg body weight.	30.9.2001 [i]

No (or EC No)	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	Period of authorisation
					CFU/kg of complete feedingstuff			
15	*Enteroccocus faecium* NCIMB 11181	Preparation of *Enteroccocus faecium* containing a minimum of: Powder form: 4×10^{11} CFU/g additive Coated form: 5×10^{10} CFU/g additive	Calves	6 months	5×10^{8}	2×10^{9}	In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting.	30.9.2001 [l]
			Piglets	4 months	5×10^{8}	2×10^{9}	In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting.	30.9.2001 [l]
16	*Enteroccocus faecium* DSM 7134 *Lactobacillus rhamnosus* DSM 7133	Mixture of: *Enterococcus faecium* containing a minimum of: 7×10^{9} CFU/g and of *Lactobacillus rhamnosus* containing a minimum of: 3×10^{9} CFU/g	Calves	6 months	1×10^{9}	6×10^{9}	In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting.	30.9.2001 [l]
			Piglets	4 months	1×10^{9}	5×10^{9}	In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting.	30.9.2001 [l]
17	*Lactobacillus casei* NCIMB 30096 *Enterococcus faecium* NCIMB 30098	Mixture of *Lactobacillus casei* and *Enterococcus faecium* containing a minimum of: *Lactobacillus casei* 2×10^{9} CFU/g and *Enterococcus faecium* 6×10^{9} CFU/g	Calves	6 months	*Lactobacillus casei* $0{,}5 \times 10^{9}$ *Enterococcus faecium* $1{,}5 \times 10^{9}$	*Lactobacillus casei* 1×10^{9} *Enterococcus faecium* 3×10^{9}	In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting.	30.9.2001 [m]
18	*Enteroccocus faecium* CECT 4515	Preparation of *Enterococcus faecium* containing a minimum of 1×10^{10} CFU/g additive	Piglets	4 months	1×10^{9}	1×10^{9}	In the directions for use of the additive and premixture indicate the storage temperature, storage life and stability to pelleting.	30.9.2001 [m]
			Calves	6 months	1×10^{9}	1×10^{9}	In the directions for use of the additive and premixture indicate the storage temperature, storage life and stability to pelleting.	30.9.2001 [m]

No (or EC No)	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	Period of authorisation
					CFU/kg of complete feedingstuff			
19	*Streptococcus-infantarius* CNCM I-841 *Lactobacillus plantarum* CNCM I-840	Mixture of: *Streptococcus infantarius* and *Lactobacillus plantarum* containing a minimum of: *Streptococcus infantarius* $0,5 \times 10^9$ CFU/g and *Lactobacillus plantarum* 2×10^9 CFU/g	Calves	6 months	*Streptococcus infantarius* 1×10^9 *Lactobacillus plantarum* $0,5 \times 10^9$	*Streptococcus infantarius* 1×10^9 *Lactobacillus plantarum* $0,5 \times 10^9$	In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting.	30.9.2001 (n)

No (or EC No)	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	Duration of authorisation
					mg/kg of complete feedingstuff			
Radionuclide binders								
1. Radioactive caesium binders (^{137}Cs and ^{134}Cs)								
	Ferric (III) ammonium hexacyanoferrate (II)	$NH_4Fe(III)[Fe(II)(CN)_6)]$	Ruminants (domestic and wild)	—	50	500	Indicate in the instructions for use: 'The quantity of ferric (III) ammonium hexacyanoferrate (II) in the daily ration must be between 10 mg and 150 mg for 10 kg of body weight'	13.10.2001 (c)
			Calves prior to the start of rumination	—	50	500	Indicate in the instructions for use: 'The quantity of ferric (III) ammonium hexacyanoferrate (II) in the daily ration must be between 10 mg and 150 mg for 10 kg of body weight'	13.10.2001 (c)

No (or EC No)	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	Duration of authorisation
					mg/kg of complete feedingstuff			
			Lambs prior to the start of rumination	—	50	500	Indicate in the instructions for use: 'The quantity of ferric (III) ammonium hexacyanoferrate (II) in the daily ration must be between 10 mg and 150 mg for 10 kg of body weight'	13.10.2001 ([c])
			Kids prior to the start of rumination	—	50	500	Indicate in the instructions for use: 'The quantity of ferric (III) ammonium hexacyanoferrate (II) in the daily ration must be between 10 mg and 150 mg for 10 kg of body weight'	13.10.2001 ([c])
			Pigs (domestic and wild)	—	50	500	Indicate in the instructions for use: 'The quantity of ferric (III) ammonium hexacyanoferrate (II) in the daily ration must be between 10 mg and 150 mg for 10 kg of body weight'	13.10.2001 ([c])

([a]) First authorisation: Commission Directive 97/72/EC (OJ L 351, 23.12.1997, p. 55).
([b]) First authorisation: Commission Directive 96/7/EC (OJ L 51, 1.3.1996, p. 45).
([c]) First authorisation: Commission Directive 96/66/EC (OJ L 272, 25.10.1996, p. 32).
([d]) First authorisation: Commission Regulation (EC) No 2316/98 (OJ L 289, 28.10.1998, p. 4).
([e]) First authorisation: Commission Regulation (EC) No 639/1999 (OJ L 82, 26.3.1999, p. 6).
([f]) First authorisation: Commission Regulation (EC) No 1245/1999 (OJ L 150, 17.6.1999, p. 15).
([g]) First authorisation: Commission Regulation (EC) No 1436/98 (OJ L 191, 7.7.1998, p. 15).
([g*]) First authorisation: Commission Regulation (EC) No 1436/98 (OJ L 191, 7.7.1998, p. 15) with modification of form/concentration in Commission Regulation (EC) No 654/2000 (OJ L 79, 30.3.2000, p. 26).
([g**]) First authorisation: Commission Regulation (EC) No 1436/98 (OJ L 191, 7.7.1998, p. 15) and modification of the conditions of use in Commission Regulation (EC) No 1353/2000 (OJ L 155, 28.6.2000, p. 15).
([h]) First authorisation: Commission Regulation (EC) No 866/1999 (OJ L 108, 27.4.1999, p. 21).
([h*]) First authorisation: Commission Regulation (EC) No 866/1999 (OJ L 108, 27.4.1999, p. 21) with modification of concentration in Commission Regulation (EC) No 654/2000 (OJ L 79, 30.3.2000, p. 26).
([i]) First authorisation: Commission Regulation (EC) No 1411/1999 (OJ L 164, 30.6.1999, p. 56).
([j]) First authorisation: Commission Regulation (EC) No 2374/98 (OJ L 295, 4.11.1998, p. 3).
([k]) First authorisation: Commission Regulation (EC) No 1636/1999 (OJ L 194, 27.7.1999, p. 17).
([l]) First authorisation: Commission Regulation (EC) No 2690/1999 (OJ L 326, 18.12.1999, p. 33).
([m]) First authorisation: Commission Regulation (EC) No 654/2000 (OJ L 79, 30.3.2000, p. 26).
([n]) First authorisation: Commission Regulation (EC) No 1353/2000 (OJ L 155, 28.6.2000, p. 15).
([o]) First authorisation: Commission Regulation (EC) No 1887/2000 (OJ L 227, 7.9.2000, p. 13).
([1]) In the absence of the establishment, if required, of a specific maximum limit based on sufficient data on the presence of dioxins, the maximum limit of 500 pg WHO-PCCD/F-TEQ/kg will apply from 15 October 2000.
([2]) 1 FTU is the amount of enzyme which liberates 1 micromole of inorganic phosphate per minute from sodium phytate at pH 5,5 and 37 °C.
([3]) 1 FYT is the amount of enzyme which liberates 1 micromole of inorganic phosphate per minute from sodium phytate at pH 5,5 and 37 °C.
([4]) 1 GALU is the amount of enzyme which hydrolyses 1 micromole of p-nitrophenyl-alpha-galactopyranoside per minute at pH 5,0 and 30 °C.
([5]) 1 FBG is the amount of enzyme which liberates 1 micromole of reducing sugars (glucose equivalents) from barley beta-glucan per minute at pH 5,0 and 30 °C.
([6]) 1 FXU is the amount of enzyme which liberates 7,8 micromoles of reducing sugars (xylose equivalents) from azo-wheat arabinoxylan per minute at pH 6,0 and 50 °C.
([7]) 1 FXU is the amount of enzyme which liberates 3,1 micromoles of reducing sugars (xylose equivalents) from azo-wheat arabinoxylan per minute at pH 6,0 and 50 °C.
([8]) 1 FBG is the amount of enzyme which liberates 1 micromole of reducing sugars (glucose equivalents) from barley beta-glucan per minute at pH 6,0 and 50 °C.
([9]) 1 FXU is the amount of enzyme which liberates 0,15 micromoles of xylose from azurine-cross-linked xylan per minute at pH 5,0 and 40 °C.

([10]) 1 BGU is the amount of enzyme which liberates 0,15 micromoles of glucose from azurine-cross-linked beta-glucan per minute at pH 5,0 and 40 °C.
([11]) 1 EXU is the amount of enzyme which liberates 1 micromole of reducing sugars (xylose equivalents) from arabinoxylan per minute at pH 3,5 and 55 °C.
([12]) 1 RAU is the amount of enzyme which converts 1 mg of soluble starch into a product having an equal absorption to a reference colour at 620 nm after reaction with iodine, per minute at pH 6,6 and 30 °C.
([13]) 1 U is the amount of enzyme which liberates 0,1 micromoles of glucose from carboxymethylcellulose per minute at pH 5,0 and 40 °C.
([14]) 1 U is the amount of enzyme which liberates 0,1 micromoles of glucose from barley beta-glucan per minute at pH 5,0 and 40 °C.
([15]) 1 U is the amount of enzyme which liberates 0,1 micromoles of glucose from oat spelt xylan per minute at pH 5,0 and 40 °C.
([16]) 1 BGU is the amount of enzyme which liberates 0,278 micromoles of reducing sugars (glucose equivalents) from barley beta-glucan per minute at pH 3,5 and 40 °C.
([17]) 1 EXU is the amount of enzyme which liberates 1 micromole of reducing sugars (xylose equivalents) from wheat arabinoxylan per minute at pH 3,5 and 55 °C.
([18]) 1 U is the amount of enzyme which liberates 1 micromole of xylose from birchwood xylan per minute at pH 5,3 and 50 °C.
([19]) 1 U is the amount of enzyme which liberates 1 micromole of reducing sugars (glucose equivalents) from barley beta-glucan per minute at pH 5,0 and 30 °C.
([20]) 1 CU is the amount of enzyme which liberates 0,128 micromoles of reducing sugars (glucose equivalents) from barley beta-glucan per minute at pH 4,5 and 30 °C.
([21]) 1 EPU is the amount of enzyme which liberates 0,0083 micromoles of reducing sugars (xylose equivalents) from oat spelt xylan per minute at pH 4,7 and 30 °C.
([22]) 1 AGL is the amount of enzyme which liberates 5,55 micromoles of reducing sugars (maltose equivalents) from barley beta-glucan per minute at pH 4,6 and 30 °C.
([23]) 1 AXC is the amount of enzyme which liberates 17,2 micromoles of reducing sugars (maltose equivalents) from oat xylan per minute at pH 4,7 and 30 °C.
([24]) 1 BGN is the amount of enzyme which liberates 1 micromole of reducing sugar (glucose equivalents) from barley beta-glucan per minute at pH 4,8 and 50 °C.
([25]) 1 IFP is the amount of enzyme which liberates 1 micromole of reducing sugars (xylose equivalents) from oat xylan per minute at pH 4,8 and 50 °C.
([26]) 1 QXU is the amount of enzyme which liberates 1 micromole of reducing sugars (xylose equivalents) from oat xylan per minute at pH 5,1 and 50 °C.
([27]) 1 QGU is the amount of enzyme which liberates 1 micromole of reducing sugars (glucose equivalents) from barley beta-glucan per minute at pH 4,8 and 50 °C.
([28]) 1 U is the amount of enzyme which liberates 1 micromole of reducing sugars (glucose equivalents) from oat beta-glucan per minute at pH 4,0 and 30 °C.
([29]) 1 U is the amount of enzyme which liberates 1 micromole of reducing sugars (xylose equivalents) from oat xylan per minute at pH 4,0 and 30 °C.
([30]) 1 BU is the amount of enzyme which liberates 0,06 micromoles of reducing sugars (glucose equivalents) from barley beta-glucan per minute at pH 4,8 and 50 °C.
([31]) 1 BXU is the amount of enzyme which liberates 0,06 micromoles of reducing sugars (xylose equivalents) from birch xylan per minute at pH 5,3 and 50 °C.
([32]) 1 PPU is the amount of enzyme which liberates 1 micromole of inorganic phosphate from sodium phytate per minute at pH 5 and 37 °C.
([33]) 1 U is the amount of enzyme which liberates 2,78 micromoles of reducing sugars (maltose equivalents) from barley beta-glucan per minute at pH 5,0 and 50 °C.
([34]) 1 U is the amount of enzyme which liberates 5,55 micromoles of reducing sugars (maltose equivalents) from barley beta-glucan per minute at pH 5,0 and 50 °C.
([35]) 1 U is the amount of enzyme which liberates 4,00 micromoles of reducing sugars (maltose equivalents) from birchwood xylan per minute at pH 5,5 and 50 °C.
([36]) 1 EU is the amount of enzyme which liberates 1 micromole of reducing sugars (xylose equivalents) from oat xylan per minute at pH 4,5 and 40 °C.
([37]) 1 U is the amount of enzyme which liberates 1 micromole of reducing sugars (xylose equivalents) from oat spelt xylan per minute at pH 5,3 and 50 °C.
([38]) 1 U is the amount of enzyme which liberates 1 micromole of reducing sugar (glucose equivalent) from oat xylan per minute at pH 4,0 and 30 °C.
([39]) 1 U is the amount of enzyme which liberates 1 micromole of reducing sugar (glucose equivalent) from wheat starch per minute at pH 4,0 and 30 °C.
([40]) 1 U is the amount of enzyme which liberates 1 microgram of phenolic compound (tyrosine equivalents) from a casein substrate per minute at pH 7,5 and 40 °C.
([41]) 1 U is the amount of enzyme which liberates 1 micromole of glucosidic linkages from a water insoluble cross-linked starch polymer substrate per minute at pH 6,5 and 37 °C.
([42]) 1 U is the amount of enzyme which liberates 1 micromole of reducing material (galacturonic acid equivalents) from a poly D-galacturonic substrate per minute at pH 5,0 and 40 °C.
([43]) 1 KNU is the amount of enzyme which liberates 672 micromoles of reducing sugars (glucose equivalent) from soluble starch per minute at pH 5,6 and 37 °C.
([44]) 1 FBG is the amount of enzyme which liberates 1 micromole of reducing sugars (glucose equivalents) from barley beta-glucan per minute at pH 5,0 and 30 °C.
([45]) 1 IU is the amount of enzyme which liberates 1 micromole of reducing sugars (xylose equivalents) from birchwood xylan per minute at pH 4,5 and 30 °C.
([46]) 1 U is the amount of enzyme which liberates 0,0056 micromoles of reducing sugars (glucose equivalents) from barley beta-glucan per minute at pH 7,5 and 30 °C.
([47]) 1 U is the amount of enzyme which liberates 0,0056 micromoles of reducing sugars (glucose equivalents) from carboxymethylcellulose per minute at pH 4,8 and 50 °C.
([48]) 1 U is the amount of enzyme which liberates 1 micromole of glucose from a cross-linked starch polymer per minute at pH 7,5 and 37 °C.