[F1]ANNEX I

Textual Amendments

F1 Deleted by Commission Implementing Regulation (EU) 2017/1145 of 8 June 2017 on the withdrawal from the market of certain feed additives authorised pursuant to Council Directives 70/524/EEC and 82/471/EEC and repealing the obsolete provisions authorising those feed additives (Text with EEA relevance).

[[F1]]

ANNEX II

No(or EC No)	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	Period of authorisation
					Units of activity/ 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:	Chickens for fattening Solid form: 2 000 CU/g[a] Liquid form: 2 000	—	250 CU	—	1. 2.	30.9.2000 In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. Recommended dose per kg of

a 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.

b 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.

			CU/ml					complete feedingstuff: 500-1 000 CU.
							3.	For use in compound feed rich in non-starch polysaccharides (mainly beta-glucans), e.g. containing more than 40 % barley.
			Laying hens	—	250 CU	—	1.	30.9.2000 In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting.
							2.	Recommended dose

a 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.

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								per kg of complete feedingstuff: 500-1 000 CU.
							3.	For use in compound feed rich in non-starch polysaccharides (mainly beta-glucans), e.g. containing more than 40 % barley.
			Piglets	4 months	250 CU	—	1.	30.9.2000 In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting.

a 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.

b 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.

							2.	Recommended dose per kg of complete feedingstuff: 500-1 000 CU.
							3.	For use in compound feed rich in non-starch polysaccharides (mainly beta-glucans), e.g. containing more than 40 % barley.
			Pigs for fattening	—	250 CU	—	1.	30.9.2000 In the directions for use of the additive and premixture, indicate the storage temperature, storage life and

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								stability to pelleting.
							2.	Recommended dose per kg of complete feedingstuff: 500-1 000 CU.
							3.	For use in compound feed rich in non-starch polysaccharides (mainly beta-glucans), e.g. containing more than 40 % barley.
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:	Chickens for fattening	—	750 EPU	—	1.	30.9.2000 In the directions for use of the additive and premixture, indicate the storage temperature,

a 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.

b 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.

			Solid form: 6 000 EPU/g[b] Liquid form: 2 000 EPU/ml				2. Recommended dose per kg of complete feedingstuff: 1 500-3 000 EPU. 3. For use in compound feed rich in non-starch polysaccharides (mainly arabi-noxylans), e.g. containing more than 40 % wheat.	storage life and stability to pelleting.
			Laying hens	—	750 EPU	—	1.	30.9.2000 In the directions for use of the additive and premixture,

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b 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.

								indicate the storage temperature, storage life and stability to pelleting. 2. Recommended dose per kg of complete feedingstuff: 1 500-3 000 EPU. 3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans), e.g. containing more than 40 % wheat.
			Piglets	4 months	750 EPU	—	1.	30.9.2000 In the directions for use of the

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b 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.

								additive and premixture, indicate the storage temperature, storage life and stability to pelleting.
							2.	Recommended dose per kg of complete feedingstuff: 1 500-3 000 EPU.
							3.	For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans), e.g. containing more than 40 % wheat.
			Pigs for fattening	—	750 EPU	—	1.	30.9.2000 In the directions for

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								use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting.
							2.	Recommended dose per kg of complete feedingstuff: 1 500-3 000 EPU.
							3.	For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans), e.g. containing more than 40 % wheat.

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ANNEX III

No. (or EC No)	Additive	Chemical formula, description	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	Period of authorisation
					Units of activity/ kg of complete feedingstuff			
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-xilanase 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	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: 800-1 200 U Endo-1,3(4)-beta-glucanase: 1 800-2 700 U Endo-1,4-beta-xylanase:	30.9.2001
			Endo-1,4-beta-glucanase: 8 000 U/g[a] Endo-1,3(4)-glucanase: 18 000 U/g[b] Endo-1,4-beta-xylanase: 26 000 U/g[c]					

								2 600-3 900 U.
							3.	For use in compound feed rich in non-strach polysaccarides (mainly arabinoxylans and beta-glucans), e.g. containing more than 20 % wheat and 20 % barley.
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:	Turkeys for fattening Solid form: 6 000 EPU/g[d] Liquid form: 6	—	750 EPU	—	1.	30.9.2001 In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting.
							2.	Recommended dose

			000 EPU/ ml					per kg of complete feedingstuff: 1 500-3 000 EPU.
							3.	For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans), e.g. containing more than 35 % wheat.
42	Endo-1,4(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:	Pigs for fattening	—	4 000 U	—	1.	30.9.2001 In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting.
			Solid form: 4 000 U/ g[e]					
		Characteristic of the authorised preparation:					2.	Recommended dose per

			endo-1,4-beta-xylanase: 1,99 % wheat: 97,7 % calcium propionate: 0,3 % lecithin: 0,01 %				3.	kg of complete feedingstuff: 4 000 U For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans), e.g. containing more than 60 % wheat.
49	Endo-1,3(4)-beta-glucanase EC 3.2.1.6 Endo-1,4-beta-xilanasa EC 3.2.1.8 Alfa-amylase EC 3.2.1.1 Bacillolysin EC 3.4.24.28 Polygalacturonase C 3.2.1.15	Preparation of endo-1,3(4)-beta-glucanase producted by *Trichoderma longibrachiatum* (ATCC 2106), endo-1,4-beta-xylanase produced by *Trichoderma longibrachiatum* (IMI SD 135) alpha-amylase produced by *Bacillus amyloliquefaciens* (DSM	Chickens for fattening	—	Endo-1,3(4)-beta-glucanase: 150 U Endo-1,4-beta-xylanase: 1 500 U Alfa-amylase: 500 U Bacillolysin 800 U Polygalacturonase 50 U	— — — —	1. 2.	30.9.2001 In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. Recommended dose per kg of

	9554) and polygalacturonase produced by *Aspergillus aculeatus* (CBS 589.94) having a minimum activity of:	endo-1,3(4)-beta-glucanase: 150 U/g[f] endo-1,4-beta-xylanase: 1 500 U/g[g] alfa-amylase: 500 U/g[h] bacillolysin: 800 U/g[i] polygalacturonase: 50 U/g[j]				complete feedingstuffs: endo-1,3(4)-beta-glucanase: 150 U endo-1,4-beta-xylanase: 1 500 U alpha-amylase: 800 U. bacillolysin: 800 U polygalacturonase: 50 U
					3.	For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans and betaglucans), e.g. containing more than 30 % wheat.
		Layinghens—	endo-1,3(4)-beta-glucanase: 150 U	—	1.	30.9.2001 In the directions for use of the additive
			endo-1,4-beta-xylanase: 1 500 U	—		

				alpha-amylase: 1 000 U	—		and premixture, indicate the storage temperature, storage life and stability to pelleting.
				bacillolysin: 800 U	—		
				polygalacturonase: 50 U	—		
						2.	Recommended dose per kg of complete feedingstuffs: endo-1,3(4)-beta-glucanase: 150 U endo-1,4-beta-xylanase: 1 500 U alpha-amylase: 1 000 U polygalacturonase: 25 U.
						3.	For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans and

								betaglucans), e.g. containing more than 30 % wheat.
50	6-phytase EC 3.1.3.26	Preparation of 6-phytase produced by *Aspergillus oryzae* (DSM 11857) having a minimum activity of:	Chickens for fattening Coated form: 2 500 FYT/g[k] Liquid form: 5 000 FYT/g	—	250 FYT	—	1. 2. 3.	30.9.2001 In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. Recommended dose per kg of complete feedingstuff: 500-1 000 FYT For use in compound feed containing more than 0,25 % phytin bound phosphorus.

		Laying hens	—	250 FYT	—	1.	30.9.2001 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: 500-1 000 FYT
						3.	For use in compound feed containing more than 0,25 % phytin bound phosphorus.
		Turkeys for fattening	—	250 FYT	—	1.	30.9.2001 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: 500-1 000 FYT
							3.	For use in compound feed containing more than 0,25 % phytin bound phosphorus.
			Piglets	2 months	500 FYT	—	1.	30.9.2001 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: 500-1 000 FYT
						3.	For use in compound feed containing more than 0,25 % phytin bound phosphorus.
		Pigs for fattening	—	500 FYT	—	1.	30.9.2001 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: 500-1 000 FYT
							3.	For use in compound feed containing more than 0,25 % phytin bound phosphorus.
51	Endo-1,4-betaxylanase EC 3.2.1.8	Preparation of endo-1,4-beta-xylanase produced by *Bacillus subtilis* (LMG-S 15136) having a minimum activity of:	Chickens for fattening	—	10 IU	—	1.	30.9.2001 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
			100 IU/g'				3.	For use

								in compound feed rich in non-starch polysaccharides (mainly arabinoxylans), e.g. containing more than 40 % wheat.
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 3.2.2.1	Preparation of endo-1,3(4)-beta-glucanasa 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:	Chickens for fattening Liquid form:	—	Endo-1,3(4)-beta-glucanase: 1 000 U Endo-1,4-beta-glucanase: 12 000 U Alpha-amylase: 40 U	— — —	1. 2.	30.9.2001 In the directions for use of the additive and premixture, indicate the storage temperature, storage life and stability to pelleting. Recommended dose per kg of complete feedingstuff: endo-1,3(4)-beta-glucanase: 1 000-2 000 U endo-1,4-

				Endo-1,3(4)-beta-glucanase: 10 000 U/m[m] Endo-1,4-beta-glucanase: 120 000 U/m[n] Alpha-amylase: 400 U/ml[o]			3.	beta-glucanase: 12 000-24 000 U For use in compound feed rich in non starch polysaccharides (mainly arabinoxylans and betaglucans) e.g. containing more than 20 % wheat and 15 % sorghum and 5 % maize.

a 1 U is the amount of enzyme which liberates 0,1 micromoles of glucose from carboxymethylcellulose per minute at pH 5.0 ande 40 °C.

b 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.

c 1 U is the amount of enzyme which liberates 0,1 micromoles of glucose from oat spelt xylan per minute at pH 5.0 ande 40 °C.

d 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.

e 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.

f 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.

g 1 U is teh 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.

h 1 U is the amount of enzyme which liberates 1 micromole of glucosidic linkages from water insoluble cross-linked starch polymer per minute at pH 6,5 and 37 °C.

i 1 U is the amount of enzyme which liberates 1 microgram of phenolic compound (tyrosine equivalents) from casein substrate per minute at pH 7,5 and 40 °C.

j	1 U is the amount of enzyme which liberates 1 micromole of reducing material (galacturonic acid equivalents) from poly D-galacturonic substrate per minute at pH 5,0 and 40 °C.
k	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.
l	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.
m	1 U is the amount of enzyme which liberates 0,0056 micromoles of reducing sugars (glucose equivalents) from barley-glucan per minute at pH 7.5 and 30 °C.
n	1 U is the amount of enzyme which liberates 0,0056 micromoles of reducing sugars (glucose equivalents) from carboxymethylcellulose per minute at pH 7.5 and 30 °C.
o	1 U is the amount of enzyme which liberates 1 micromole of glucose from a cross-linked starch polymer per minute at pH 7.4 and 37 °C.

ANNEX IV

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	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	*Streptococcus infantarius* 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
	Lactobacillus plantarum CNCM I-840				*Lactobacillus plantarum* $0,5 \times 10^9$	*Lactobacillus plantarum* $0,5 \times 10^9$		

Changes to legislation:
There are currently no known outstanding effects for the Commission Regulation (EC) No 1353/2000.