# Commission Regulation (EC) No 2188/2002 of 9 December 2002 concerning the provisional authorisation of new uses of additives in feedingstuffs (Text with EEA relevance)

# COMMISSION REGULATION (EC) No 2188/2002

# of 9 December 2002

concerning the provisional authorisation of new uses of additives in feedingstuffs

# (Text with EEA relevance)

# Article 1

The preparations belonging to the group 'Enzymes' listed in Annexes I and II to this Regulation are authorised for use as additives in animal nutrition under the conditions laid down in these Annexes.

### Article 2

The preparation belonging to the group 'Enzymes' listed in Annex III to this Regulation is authorised for use as additive in animal nutrition under the conditions laid down in this Annex.

# Article 3

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

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

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### ANNEX I

No (or EC	Additive	e Chemical formula, descriptio			mMinimumMaximumOther content content provisio			End of
No)				age	Units of kg of cor feedings	activity/ nplete	provisio	of authorizatior
Enzyme	-			1			[	
11	beta- glucanase	glucanase	hens] , 4)-	g [ <sup>F1</sup> —]	[ <sup>F1</sup> Endo-1 beta- glucanase [ <sup>F1</sup> Endo-1 beta- gluca-	:]	1. 2. 3.	[ <b>[<sup>F1</sup>1.1.2007]</b> . F1 ]
	Endo-1,4- beta- xylanase	endo-1,4- 3e2ta- beta- xylanase produced by			nase:] [ <sup>F1</sup> Endo-1 beta- xylanase:			
		Exichoder 30ngtbrac (ATCC 74252) having a minimum activity of:	Withers		Endo-1,4- beta- gluca- nase: Endo-1,3(	400 U		Int.1.2007 the directions for use of the
	ar lio		nid n: Endo-1,4-	beta- glucanase	: 900 U		additive and premixture, indicate the storage temperature, storage life, and stability to	
			beta- glucanase: 8 0( U g or		1 300 U			
			ł	m Indo-1,3(4 peta- glucanase:			2.	pelleting. Recommended dosages per

**a** 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.

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  $^{\circ}$ 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 and 40  $^\circ$ C.

		8 00		kilogram of	
		1 <b>p</b> /		complete	
				feedingstuff:	
	g			endo-1,4-	
	0			beta-	
	m n	11			
	Endo-1,4-			glucanase:	00-1
	beta-				
	xylanase:				00
	2			U	
		00		endo-1,3(4)	)-
	U	ſ¢/		beta-	
	g			glucanase:	
	0				00-3
	n				00
				U	
				endo-1,	
				4-	
				beta-	
				xylanase:	
				1	
					-00
				5	
					00
				U U	
			3.	For	•
			5.	use	
				in	
				compound	
				feed	
				rich	
				in	
				non-	
				starch	
				polysaccharides	
				(mainly	
				arabinoxylans	
				and	
				beta-	
				glucans),	
				e.g.	
				containing	
				more	
				than	
				40 %	
		1	I		
				wheat,	
				wheat, triticale	

1 U is a 5,0 and 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.

<sup>1</sup> 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  $^{\circ}$ C. с

**Changes to legislation:** There are currently no known outstanding effects for the Commission Regulation (EC) No 2188/2002. (See end of Document for details)

			or maize
			or
			wheat
			and 20 %
			rye.

- **a** 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.
- **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  $^{\circ}$ 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 and 40  $^\circ$ C.

#### **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).

#### ANNEX II

No (or EC No)	Additive	Chemica formula descripti		age	content	mOther provisio	End of nsperiod of authorizat
Enzymes	5						
51	beta- xylanase		Endo- l,4- beta- xylanase:		10 IU		1.1.2007 In directions for use of the additive and premixture, indicate the storage temperature, storage life, and

a	olid nd quid: IU <sup>*/</sup> g or ml	stability to pelleting. 2. Recommended dosages per kilogram of complete feedingstuff: 10 IU.
		3. For use in compound feed rich in arabinoxylan, e.g. containing minimum 40 % wheat or barley.

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**a** 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.

#### ANNEX III

No (or EC No)	Additive	Chemica formula descript	-	age	mMinimu content Units of kg of cor feedings	activity/ nplete	nOther provisio	End of nsperiod of authorization
Enzymes								
51	beta- xylanase:	Preparation of endo-1,4- Boeta- 3x3ylla-8 nase produced by			10 IU			1.1.2007 In the directions for use of the additive

**a** 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 3 °C.

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Commission Regulation (EC) No 2188/2002. (See end of Document for detail	s)

		Bacillus						and
		subtilis						premixture,
		(LMG						indicate
		S-15136)						the
		having a						storage
		minimum						temperature,
		activity						storage
		of:						life,
			Endo 14					and
			Endo-1,4- beta-					
								stability
			xylanase:	,				to
			L	iquid:				pelleting.
					00		2.	Recommended
					J <sup>a</sup> /		2.	dosages
				n	nl			per
								kilogram
								of
								complete
								feedingstuff:
								10
								IU.
								10.
							3.	For
							0.	use
								in
								compound
								feed
								rich
								in
								arabinoxylan,
								-
								e.g.
								containing minimum
								40 %
								wheat
								or
								barley.
			liberates 1 mic	cromole of re	lucing sugars (	xylose equival	ents) from bir	chwood xylan
per min	ute at pH 4,5 a	110 J U.						

per minute at pH 4,5 and 3 °C.

a

### Changes to legislation:

There are currently no known outstanding effects for the Commission Regulation (EC) No 2188/2002.