

ANNEX

Identi- fication number of the additive	Name of the additive	Composition, chemical formula, description, analytical method	Species or category of animal	Maximum age	Minimum content	Maximum content	Other provisions	End of period of authorisa- tion
					mg/kg of complete feed with 12 % moisture content			
Category: nutritional additives. Functional group: amino acids, their salts and analogues								
3c366	L-arginine	Additive composition L-arginine ≥ 98,5 % (on a dry matter basis) Solid form Characterisation of the active substance L-arginine produced with <i>Corynebacterium glutamicum</i> CCTCC M 20232577 IUPAC name: (S)-2-amino-5-guanidinopentanoic acid Chemical formula: C ₆ H ₁₄ N ₄ O ₂ CAS number: 74–79-3 Analytical method¹ For the identification of L-arginine in the feed additive: – Food Chemical Codex “L-arginine monograph” For the determination of arginine in the feed additive: – Ion-exchange chromatography coupled	All animal species	-	-	-	1. In the directions for use of the additive and premixtures, the storage conditions, stability to heat treatment and stability in water for drinking shall be indicated. 2. The additive may be used via water for drinking. 3. Feed business operators shall ensure that L-arginine is rumen protected, when fed to ruminants. 4. The moisture content shall be indicated on the label of the additive. 5. The label of the additive and premixtures shall indicate the following: ‘The supplementation with L-arginine, in particular via water	<i>[10 years from the date of entry into force of this Regulation. To be completed by the OP]</i>

¹ Details of the analytical methods are available at the following address of the Reference Laboratory: https://joint-research-centre.ec.europa.eu/eurl-fa-eurl-feed-additives/eurl-fa-authorisation/eurl-fa-evaluation-reports_en.

		to post-column derivatisation and optical detection (IEC-VIS/FLD or IEC-VIS) For the determination of arginine in premixtures: – Ion-exchange chromatography coupled to post-column derivatisation and optical detection (IEC-VIS/FLD) or – Ion-exchange chromatography coupled to post-column derivatisation and optical detection (IEC-VIS) – Commission Regulation (EC) No 152/2009² For the determination of arginine in compound feed: – Ion-exchange chromatography coupled to post-column derivatisation and optical detection (IEC-VIS) – Commission Regulation (EC) No 152/2009 For the determination of arginine in water for drinking: – Ion-exchange chromatography coupled to post-column derivatisation and optical detection (IEC-VIS)					for drinking, shall take into account all essential and conditionally essential amino acids in order to avoid nutritional imbalances.’ 6. For users of the additive and premixtures, feed business operators shall establish operational procedures and organisational measures to address potential risks resulting from their use. Where those risks cannot be eliminated by such procedures and measures, the additive and premixtures shall be used with personal skin, eye and breathing protective equipment.	
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² Commission Regulation (EC) No 152/2009 of 27 January 2009 laying down the methods of sampling and analysis for the official control of feed (OJ L 54, 26.2.2009; ELI: <http://data.europa.eu/eli/reg/2009/152/oj>).