

## ANNEX

Identi- fication number of the additive	Name of the holder of authorisation	Additive	Composition, chemical formula, description, analytical method	Species or category of animal	Maxi- mum age	Minimum content	Maximum content	Other provisions	End of period of authorisa- tion
						mg of additive/kg of complete feedingstuff with a moisture content of 12%			
Category of zootechnical additives. Functional group: other zootechnical additives (improvement of zootechnical parameters).									
4d 3	Vetagro SpA	Preparation of citric acid, sorbic acid, thymol and vanillin	<b>Additive composition</b> Preparation of protected microbeads containing citric acid, sorbic acid, thymol and vanillin with a minimum of:  Citric acid: 25 g/100 g Thymol: 1,7 g/100 g Sorbic acid: 16,7 g/100 g Vanillin: 1 g/100 g  ----- <b>Characterisation of active substance</b>  Citric acid C <sub>6</sub> H <sub>8</sub> O <sub>7</sub> (purity ≥ 99,5 %)	Suckling piglets	-	1 000	-	1. In the directions for use of the additive and premixture, the storage conditions and stability to heat treatment shall be indicated. 2. Indicate in the instruction of use: “The total maximum content by the different sources of citric acid and sorbic acid in complete feed shall not be exceeded” 3. For users of the additive and premixtures, feed business operators shall	[10 years from the date of entry into force of this Regulation. To be completed by the Service responsible for the publica-

		<p>2-hydroxy-1,2,3-propanetricarboxylic acid, CAS number 77-92-9 anhydrous</p> <p>Sorbic acid C<sub>6</sub>H<sub>8</sub>O<sub>2</sub> (purity ≥ 99,5 %)</p> <p>2,4-hexadienoic acid, CAS number 110-44-1</p> <p>Thymol (purity ≥ 98 %)</p> <p>5-methyl-2-(1-methylethyl)phenol, CAS number 89-83-8)</p> <p>Vanillin (purity ≥ 99,5 %)</p> <p>4-hydroxy-3-methoxybenzaldehyde, CAS number 121-33-5)</p> <p>-----</p> <p><b>Analytical method<sup>1</sup></b></p> <p>Determination of sorbic acid and thymol in feed additive, premixtures and feedingstuffs:</p> <ul style="list-style-type: none"> <li>- Reversed phase high performance liquid chromatography equipped with ultraviolet/diode array detection (HPLC-UV/DAD)</li> </ul> <p>Determination of citric acid in the additive and premixtures:</p> <ul style="list-style-type: none"> <li>- Reversed phase high performance liquid chromatography equipped with ultraviolet/diode array detection (HPLC-UV/DAD)</li> </ul> <p>Determination of citric acid in feedingstuffs:</p> <ul style="list-style-type: none"> <li>- enzymatic determination of citric acid content - NADH (reduced form of nicotinamide adenine dinucleotide) spectrometric method</li> </ul>	<p>Turkeys for fattening</p> <p>Turkeys reared for breeding</p>	-	200	-	<p>establish operational procedures and organisational measures to address potential risks resulting from their use. Where those risks cannot be eliminated or reduced to a minimum by such procedures and measures, the additive and premixtures shall be used with personal protective equipment, including skin, eyes and breathing protection.</p>	tion]
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<sup>1</sup> Details of the analytical methods are available at the following address of the Reference Laboratory: <https://ec.europa.eu/jrc/en/eurl/feed-additives/evaluation-reports>