

EN
ANNEX

Identi- fication number of the additive	Name of the holder of authorisation	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 of the additive/kg of complete feed with a moisture content of 12%			
Category: zootechnical additives. Functional group: other zootechnical additives (improvement of performance parameters)									
4d10	DSM Nutritional Products Ltd represented by DSM Nutritional Products Sp. z o. o.	Preparation of benzoic acid, thymol, eugenol, piperine	Additive composition Preparation of benzoic acid, thymol, eugenol, piperine having a content of: - benzoic acid 80 %-85 % - thymol 1 %-2 % - eugenol 0,5 %-1 % - piperine 0,05 %-0,1 % - benzyl salicylate, iso-amyl salicylate and trans-anethole ≤ 0,6 %. Solid form. Characterisation of the active substances - Benzoic acid ⁽¹⁾ (≥ 95,5 % purity), C ₇ H ₆ O ₂ , CAS number 65-85-0 - Thymol ⁽²⁾ : C ₁₀ H ₁₄ O, CAS number 89-83-8 - Eugenol ⁽²⁾ : C ₁₀ H ₁₂ O ₂ , CAS number 97-53-0	Poultry for fattening Poultry reared for laying or reproduction	-	300	300	1. In the directions for use of the additive and premixtures, the storage conditions and stability to heat treatment shall be indicated. 2. The additive shall not be used with other sources of, eugenol, benzoic acid or benzoates. 3. The simultaneous use of this preparation with other feed additives is permitted, provided that the contents of thymol and piperine in feed materials and compound feed are lower than those that would result from the use of the other authorised feed additive(s) with the highest contents of thymol and piperine, at their maximum or recommended maximum content for the	[10 years from the date of entry into force of this Regulation. To be completed by the Service responsible for the publica- tion]

⁽¹⁾ Also known as benzenecarboxylic acid or phenylcarboxylic acid.

⁽²⁾ JECFA, Online Edition: 'Specifications for Flavourings': <https://www.fao.org/food/food-safety-quality/scientific-advice/jecfa/jecfa-flav/en/>.

			<ul style="list-style-type: none"> - Piperine ⁽²⁾: C₁₇H₁₉O₃N, CAS number 94-62-2 - Isoamyl salicylate ⁽²⁾, CAS number 87-20-7 - Benzyl salicylate ⁽²⁾, CAS number 118-58-1 - Trans-anethole ⁽²⁾, CAS number 4180-23-8. <p>Analytical methods ⁽³⁾</p> <p>For the determination benzoic acid in the feed additive and premixtures: Reverse Phase High-Performance Liquid Chromatography coupled to an Ultraviolet detector (RP-HPLC-UV)</p> <p>For the determination benzoic acid in compound feed: Gas Chromatography Isotope Dilution Mass Spectrometry (GC-IDMS)</p> <p>For the determination of thymol, eugenol and piperine in the feed additive: Gas Chromatography coupled to a Flame Ionisation Detector (GC-FID)</p>				<p>relevant animal species or category.</p> <p>4. 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 respiratory, eye and skin protective equipment.</p>	
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⁽³⁾ 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.