

EN
ANNEX

Identi- fication number of the additive	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 active substance of kg of complete feedingstuff with a moisture content of 12 %			
Category: Sensory additives. Functional group: Colourants. (ii) substances which, when fed to animals, add colours to food of animal origin								
2a165	Astaxanthin- dimethyldisuccinate	Additive composition Astaxanthin-dimethyldisuccinate ----- Characterisation of the active substance: Astaxanthin-dimethyldisuccinate Chemical formula: C ₅₀ H ₆₄ O ₁₀ Solid form produced by chemical synthesis CAS number 578006-46-9 <u>Purity criteria</u> Astaxanthin-dimethyldisuccinate (all-E, 9-Z and 13-Z isomers) ≥ 96% Other carotenoids ≤ 4 % <u>Triphenylphosphine oxide (TPPO) ≤ 100 mg/kg</u> ----- Analytical method⁽¹⁾	Fish and crustaceans	-	-	138	<div>1. Astaxanthin- dimethyldisuccinate may be placed on the market and used as an additive consisting of a preparation.</div> <div>2. In the directions for use of the additive and premixture, the storage conditions and stability to heat treatment shall be indicated.</div> <div>3. For users of the additive and premixtures, feed business operators shall establish operational procedures and organisational measures to address potential risks resulting from its use, including the risks of those additives included in the preparation. Where those risks cannot be eliminated or reduced to a minimum by such</div>	<div><i>[to be completed by the Service responsible for the publication: insert precise date]</i></div> <div>[10 years from the date of entry into force of this Regulation]</div>

		<p>For the quantification of astaxanthin dimethyldisuccinate in the feed additive:</p> <ul style="list-style-type: none"> – spectrophotometry at 486 nm <p>For the quantification of astaxanthin dimethyldisuccinate in the feed additive, premixtures and feedingstuffs:</p> <ul style="list-style-type: none"> – normal phase high performance liquid chromatography coupled to UV/VIS detection (HPLC-UV/VIS) 					<p>procedures and measures, the additive and premixtures shall be used with personal protective equipment, including eye, skin and breathing protection.</p>	
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(1) <https://ec.europa.eu/jrc/en/eurl/feed-additives/evaluation-reports>