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ANNEX

Identification 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 authorisation
					mg active substance /kg of complete feed with a moisture content of 12%			
Category: Sensory additives. Functional group: Flavouring compounds								
2b188-eo	Clove bud essential oil	Additive composition Essential oil obtained from the dried flower buds of <i>Syzygium aromaticum</i> (L.) Merr. & L.M. Perry (synonym: <i>Eugenia caryophyllata</i> Thunb.)	Turkeys for fattening	-	-	43,0	1. The additive shall be incorporated into the feed in the form of a premixture. 2. In the directions for use of the additive and premixtures, the storage conditions and stability to heat treatment shall be indicated.	[to be completed by the OP: insert precise date 10 years from the date of entry into
			Chickens for fattening and minor poultry for fattening	-	-	32,0		
		Liquid form Characterisation of the active	All poultry reared for laying or	-	-	28,5		

		substance	breeding				<p>3. This additive shall not be used in combination with other feed additives containing methyleugenol.</p> <p>4. Simultaneous use of clove bud essential oil with other feed additives is permitted provided that the combined content of <i>p</i>-allylalkoxybenzenes (methyleugenol, estragole, elemicin, safrole, myristicin, dillapiole, and apiole) in feed materials and compound feed remains below the content that would result from using the authorised feed additive with the highest content of those substances at its maximum or recommended maximum content for the relevant animal species or</p>	force of this Regulation.]
		Clove bud essential oil:	Ornamental birds	-	-	28,5		
		Essential oil, as defined by the Council of Europe ¹ , obtained from the dried flower buds of <i>Syzygium aromaticum</i> (L.) Merr. & L.M. Perry by steam distillation and further condensation of volatile constituents and separation from the aqueous phase by decantation.	All poultry for laying or breeding	-	-	28,5		
		CAS number: 8000-34-8 EINECS: 284-638-7 ² FEMA number:2323 CoE number:188	Pigs for fattening	-	-	50,0		
		<u>Specifications</u>	Pigs for fattening of minor <i>Suidae</i>	-	-	50,0		
		Eugenol: 67-85% β-Caryophyllene: 2-16% Eugenyl acetate: 5-15% Estragole: ≤ 0,01% Methyleugenol: ≤ 0,13%	Piglets (suckling and weaned) of all <i>Suidae</i>	-	-	30,5		
			All <i>Suidae</i> for reproduction	-	-	50,0		
			Calves for fattening	6 months	-	50,0		
			Sheep and goats	-	-	50,0		

¹ Natural sources of flavourings - Report No. 2 (2007).

² Here it only refers to the essential oil from dried flower buds of *Syzygium aromaticum* (L.) Merr. & L.M. Perry.

		Analytical method³ For the determination of eugenol (phytochemical marker) in the feed additive: – Gas chromatography coupled with flame ionisation detection (GC-FID) (ISO 3142)	Cattle for fattening; other ruminants for fattening except sheep, goats and calves for fattening up to 6 months old; <i>Camelidae</i> for fattening	-	-	50,0	category. 5. For users of the additive and premixtures, feed business operators shall establish operational procedures and organisational measures to address the 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 breathing eye and skin protective equipment.	
			All other ruminants; all other <i>Camelidae</i>	-	-	50,0		
			<i>Equidae</i>	-	-	50,0		
			Rabbits	-	-	30,5		
			Salmonids and minor fin fish	-	-	50,0		
			Dogs	-	-	50,0		
			Cats	-	-	25,0		
			Ornamental fish	-	-	50,0		

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.

			Other species and categories	-	-	25,0		
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					mg active substance /kg of complete feed with a moisture content of 12%			
Category: Sensory additives. Functional group: Flavouring compounds								
2b188i-eo	Clove leaf essential oil	Additive composition	Turkeys for fattening	-	-	48	1. The additive shall be incorporated into the feed in the form of a premixture. 2. In the directions for use of the additive and premixtures, the storage conditions and stability to heat treatment shall be indicated. 3. Simultaneous use of clove leaf essential oil with other feed additives is permitted provided that the combined content of <i>p</i> -allylalkoxybenzenes (methyleugenol, estragole, elemicin, safrole, myristicin, dillapiole, and apiole) in feed materials and compound feed	[to be completed by the OP: insert precise date 10 years from the date of entry into force of this Regulation.]
		Essential oil obtained from the leaves of <i>Syzygium aromaticum</i> (L.) Merr. & L.M. Perry	Chickens for fattening and minor poultry for fattening	-	-	36		
			Liquid form	All poultry reared for laying or breeding	-	-		
		Characterisation of the active substance	Ornamental birds	-	-	54		
		Clove leaf essential oil: Essential oil, as defined by the Council of Europe ⁴ , obtained from the leaves of <i>Syzygium aromaticum</i> (L.) Merr. & L.M. Perry by steam distillation and further condensation of volatile constituents and separation from the aqueous phase by	All poultry for laying or breeding	-	-	54		
			Pigs for fattening	-	-	77		
			Pigs for fattening of minor <i>Suidae</i>	-	-	65		
			Piglets (suckling and weaned) of all <i>Suidae</i>	-	-	65		
			All <i>Suidae</i> for reproduction	-	-	95		

⁴ Natural sources of flavourings - Report No. 2 (2007).

		decantation.	Calves for fattening	6 months	-	100	<p>remains below the content that would result from using the authorised feed additive with the highest content of those substances at its maximum or recommended maximum content for the 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 the 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 breathing eye and skin protective equipment.</p>	
		CAS number: 8000-34-8 EINECS: 284-638-7 ⁵ FEMA number:2325 CoE number:188	Sheep and goats	-	-	100		
		<u>Specifications</u>	Cattle for fattening; other ruminants for fattening except sheep, goats and calves for fattening up to 6 months old; <i>Camelidae</i> for fattening	-	-	100		
		Eugenol: 80-95 % β -caryophyllene: 4-17 % Eugenyl acetate: \leq 1% Estragole: \leq 0,01% Methyleugenol: \leq 0,03%	All other ruminants; all other <i>Camelidae</i>	-	-	92		
		Analytical method⁶	<i>Equidae</i>	-	-	100		
		For the determination of eugenol (phytochemical marker) in the feed additive:	Rabbits	-	-	57		
		– Gas chromatography coupled with flame ionisation detection (GC-FID) (ISO 3141)	Salmonids and minor fin fish	-	-	100		
			Dogs	-	-	100		
			Cats	-	-	28		
			Ornamental fish	-	-	100		
			Other species and categories	-	-	28		

⁵ Here it only refers to the essential oil from leaves of *Syzygium aromaticum* (L.) Merr. & L.M. Perry.

⁶ 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.

Identification 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 authorisation	
					mg active substance /kg of complete feed with a moisture content of 12%				
Category: Sensory additives. Functional group: Flavouring compounds									
2b188ii-eo	Beta-caryophyllene-rich fraction of clove leaf essential oil	Additive composition Essential oil obtained from the leaves of <i>Syzygium aromaticum</i> (L.) Merr. & L.M. Perry Liquid form	Turkeys for fattening	-	-	34	1. The additive shall be incorporated into the feed in the form of a premixture. 2. In the directions for use of the additive and premixtures, the storage conditions and stability to heat treatment shall be indicated. 3. Simultaneous use of beta-caryophyllene-rich fraction of clove leaf essential oil with other feed additives is permitted provided that the combined content of <i>p</i> -allylalkoxybenzenes (methyleugenol, estragole, elemicin, safrole, myristicin, dillapiole, and apiole)	[to be completed by the OP: insert precise date 10 years from the date of entry into force of this Regulation.]	
			Chickens for fattening and minor poultry for fattening	-	-	26			
			All poultry reared for laying or breeding	-	-	38			
		Characterisation of the active substance	Ornamental birds	-	-	38			
			All poultry for laying or breeding	-	-	38			
			Pigs for fattening	-	-	54			
		Beta-caryophyllene-rich fraction of clove leaf essential oil:	Pigs for fattening of minor <i>Suidae</i>	-	-	46			
			Piglets (suckling and weaned) of all <i>Suidae</i>	-	-	46			
			All <i>Suidae</i> for reproduction	-	-	67			
		Essential oil, as defined by the Council of Europe ⁷ , obtained from the leaves of <i>Syzygium aromaticum</i> (L.) Merr. & L.M. Perry by fractional distillation of clove leaf oil itself.	Calves for fattening	6 months	-	114			
			Sheep and goats	-	-	101			
			Cattle for fattening; other ruminants for fattening except	-	-	101			
		<u>Specifications</u> β-caryophyllene: 70-90 % Estragole: ≤ 0,01% Methyleugenol: ≤ 0,06%							

⁷ Natural sources of flavourings - Report No. 2 (2007).

		Analytical method⁸ For the determination of β -caryophyllene (phytochemical marker) in the feed additive: Gas chromatography coupled with flame ionisation detection (GC-FID) (ISO 11024)	sheep, goats and calves for fattening up to 6 months old; <i>Camelidae</i> for fattening				in feed materials and compound feed remains below the content that would result from using the authorised feed additive with the highest content of those substances at its maximum or recommended maximum content for the relevant animal species or category. 4. For users of the additive and premixtures, feed business operators shall establish operational procedures and organisational measures to address the 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 breathing eye and skin protective equipment.	
			All other ruminants; all other <i>Camelidae</i>	-	-	65		
			<i>Equidae</i>	-	-	101		
			Rabbits	-	-	40		
			Salmonids and minor fin fish	-	-	112		
			Dogs	-	-	50		
			Cats	-	-	20		
			Ornamental fish	-	-	50		
			Other species and categories	-	-	20		

⁸ 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.

