



COMMISSION IMPLEMENTING REGULATION (EU) 2024/260

of 12 January 2024

concerning the authorisation of cumin essential oil from *Cuminum cyminum* L., sweet fennel tincture from *Foeniculum vulgare* Mill. ssp. *vulgare* var. *dulce*, dong quai tincture from *Angelica sinensis* (Oliv.) Diels, parsley tincture from *Petroselinum crispum* (Mill.) Fuss, star anise tincture from *Illicium verum* Hook f., asafoetida essential oil from *Ferula-assa-foetida* L., dill herb essential oil from *Anethum graveolens* L. and dill tincture from *Anethum graveolens* L. as feed additives for certain animal species

(Text with EEA relevance)

THE EUROPEAN COMMISSION,

Having regard to the Treaty on the Functioning of the European Union,

Having regard to Regulation (EC) No 1831/2003 of the European Parliament and of the Council of 22 September 2003 on additives for use in animal nutrition ⁽¹⁾, and in particular Article 9(2) thereof,

Whereas:

- (1) Regulation (EC) No 1831/2003 provides for the authorisation of additives for use in animal nutrition and for the grounds and procedures for granting such authorisation. Article 10(2) of that Regulation provides for the re-evaluation of additives authorised pursuant to Council Directive 70/524/EEC ⁽²⁾.
- (2) The substances cumin essential oil from *Cuminum cyminum* L., sweet fennel tincture from *Foeniculum vulgare* Mill. ssp. *vulgare* var. *dulce*, parsley tincture from *Petroselinum crispum* (Mill.) Fuss, star anise tincture from *Illicium verum* Hook f., dill tincture from *Anethum graveolens*, dong quai tincture from *Angelica sinensis* (Oliv.) Diels, asafoetida essential oil from *Ferula-assa-foetida* L., and dill herb essential oil from *Anethum graveolens* L. were authorised without a time limit in accordance with Directive 70/524/EEC as feed additives for all animal species. These substances were subsequently entered in the Register of Feed Additives as existing products belonging to the category 'sensory additives' and to the functional group 'flavouring compounds', in accordance with Article 10(1), point (b), of Regulation (EC) No 1831/2003.
- (3) In accordance with Article 10(2) of Regulation (EC) No 1831/2003 in conjunction with Article 7 thereof, an application was submitted for the authorisation of cumin essential oil from *Cuminum cyminum* L., sweet fennel tincture from *Foeniculum vulgare* Mill. ssp. *vulgare* var. *dulce*, parsley tincture from *Petroselinum crispum* (Mill.) Fuss, star anise tincture from *Illicium verum* Hook f., dill tincture from *Anethum graveolens*, dong quai tincture from *Angelica sinensis* (Oliv.) Diels, asafoetida essential oil from *Ferula-assa-foetida* L., and dill herb essential oil from *Anethum graveolens* L. for all animal species, requesting the additives to be classified in the additive category 'sensory additives' and in the functional group 'flavouring compounds'. That application was accompanied by the particulars and documents required under Article 7(3) of Regulation (EC) No 1831/2003. The applicant subsequently withdrew the application for authorisation of dong quai tincture from *Angelica sinensis* (Oliv.) Diels as regards the use for all animal species except poultry, horses dogs and cats, for authorisation of asafoetida essential oil from *Ferula-assa-foetida* L. as regards the use for all animal species except dogs and cats and for authorisation of dill herb essential oil from *Anethum graveolens* L. as regards all animal species except dogs and cats.

⁽¹⁾ OJ L 268, 18.10.2003, p. 29.

⁽²⁾ Council Directive 70/524/EEC of 23 November 1970 concerning additives in feedingstuffs (OJ L 270, 14.12.1970, p. 1).

- (4) The applicant requested the additives to be authorised for use also in water for drinking. In addition, for dong quai tincture from *Angelica sinensis* (Oliv.) Diels the request for authorisation for poultry was only for a use in water for drinking. However, Regulation (EC) No 1831/2003 does not allow the authorisation of 'flavouring compounds' for use in water for drinking. Therefore, the use of those additives in water for drinking should not be allowed.
- (5) The European Food Safety Authority ('the Authority') concluded in its opinions of 22 November 2022 ⁽³⁾ that, under the proposed conditions of use, cumin essential oil from *Cuminum cyminum* L., sweet fennel tincture from *Foeniculum vulgare* Mill. ssp. *vulgare* var. *dulce*, dong quai tincture from *Angelica sinensis* (Oliv.) Diels, parsley tincture from *Petroselinum crispum* (Mill.) Fuss, star anise tincture from *Illicium verum* Hook f., dill herb essential oil from *Anethum graveolens* L. and dill tincture from *Anethum graveolens* L., are safe for the target species, consumers and the environment. As regards asafoetida essential oil from *Ferula-assa-foetida* L., the Authority considered that the substance is safe for dogs and cats and that there is no evidence of concern for the environment. The Authority also concluded that dill herb essential oil, cumin essential oil, dill tincture, sweet fennel tincture, asafoetida oil, dong quai tincture, parsley tincture and star anise tincture should be considered as irritant to skin and eyes, and as dermal and respiratory sensitisers. The Authority concluded that when handling the cumin essential oil, dill herb essential oil, dill tincture, sweet fennel tincture and star anise tincture, exposure of unprotected users to estragole (and dillapiole) cannot be excluded and that therefore, to reduce the risk, the exposure of the users should be minimised. In addition, the Authority concluded that when handling parsley tincture, the exposure of unprotected users to apiole, elemicin and myristicin cannot be excluded and that therefore, to reduce the risk, the exposure of the users should be minimised. The Authority further concluded that since the substances are recognised to flavour food and since their function in feed would be essentially the same as that in food, no further demonstration of efficacy is considered necessary. It also verified the report on the method of analysis of the feed additives in feed submitted by the Reference Laboratory set up by Regulation (EC) No 1831/2003.
- (6) In view of the above, the Commission considers that cumin essential oil from *Cuminum cyminum* L., sweet fennel tincture from *Foeniculum vulgare* Mill. ssp. *vulgare* var. *dulce*, dong quai tincture from *Angelica sinensis* (Oliv.) Diels, parsley tincture from *Petroselinum crispum* (Mill.) Fuss, star anise tincture from *Illicium verum* Hook f., asafoetida oil from *Ferula-assa-foetida* L., dill herb essential oil from *Anethum graveolens* L. and dill tincture from *Anethum graveolens* L. satisfy the conditions provided for in Article 5 of Regulation (EC) No 1831/2003 for certain animal species. Accordingly, the use of these substances should be authorised for those animal species. The Commission considers that safety reasons do not require the setting of maximum contents for asafoetida essential oil from *Ferula-assa-foetida* L. and for dill herb essential oil from *Anethum graveolens* L.. The large margin of exposure and the lack of substances of concern permit to establish maximum recommended contents. In order to allow better control, the recommended maximum content should be indicated on the label of the feed additives. Where such contents are exceeded, certain information should be indicated on the label of the premixtures concerned. For cumin essential oil from *Cuminum cyminum* L., sweet fennel tincture from *Foeniculum vulgare* Mill. ssp. *vulgare* var. *dulce*, parsley tincture from *Petroselinum crispum* (Mill.) Fuss, star anise tincture from *Illicium verum* Hook f., dong quai tincture from *Angelica sinensis* (Oliv.) Diels and dill tincture from *Anethum graveolens* L., the Commission considers that the presence of substances of concern requires to set a maximum content in complete feed and to limit the combination of these additives with others containing the same substances of concern. In addition, the Commission considers that appropriate protective measures should be taken to prevent adverse effects on the health of the users of the additives.
- (7) Since safety reasons do not require the immediate application of the modifications to the conditions of authorisation of the substances concerned, it is appropriate to provide for a transitional period for interested parties to prepare themselves to meet the new requirements resulting from the authorisation.
- (8) The measures provided for in this Regulation are in accordance with the opinion of the Standing Committee on Plants, Animals, Food and Feed,

⁽³⁾ EFSA Journal 2022;20(12):7690, EFSA Journal 2023;21(1):7691, EFSA Journal 2022;20(12):7692, EFSA Journal 2023;21(1):7693, EFSA Journal 2023;21(1):7694, EFSA Journal 2022;20(12):7695, EFSA Journal 2022;20(12):7689, EFSA Journal 2022;20(12):7688.

HAS ADOPTED THIS REGULATION:

Article 1

Authorisation

The substances specified in the Annex, belonging to the additive category 'sensory additives' and to the functional group 'flavouring compounds', are authorised as additives in animal nutrition, subject to the conditions laid down in that Annex.

Article 2

Transitional measures

1. The substances specified in the Annex and premixtures containing those substances, which are produced and labelled before 4 August 2024 in accordance with the rules applicable before 4 February 2024 may continue to be placed on the market and used until the existing stocks are exhausted.
2. Compound feed and feed materials containing the substances specified in the Annex which are produced and labelled before 4 February 2025 in accordance with the rules applicable before 4 February 2024 may continue to be placed on the market and used until the existing stocks are exhausted if they are intended for food-producing animals.
3. Compound feed and feed materials containing the substances specified in the Annex which are produced and labelled before 4 February 2026 in accordance with the rules applicable before 4 February 2024 may continue to be placed on the market and used until the existing stocks are exhausted if they are intended for non-food producing animals.

Article 3

Entry into force

This Regulation shall enter into force on the twentieth day following that of its publication in the *Official Journal of the European Union*.

This Regulation shall be binding in its entirety and directly applicable in all Member States.

Done at Brussels, 12 January 2024.

For the Commission
The President
Ursula VON DER LEYEN

Identification 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 authorisation
					mg /kg of active substance complete feed with a moisture content of 12 %			
Category: Sensory additives. Functional group: Flavouring compounds								
2b161-eo	Cumin essential oil	<i>Additive composition</i> Cumin essential oil obtained from fruits of <i>Cuminum cyminum</i> L. Liquid form <i>Characterisation of the active substance</i> Cumin essential oil obtained by steam distillation of fruits of <i>Cuminum cyminum</i> L. as defined by the Council of Europe ⁽¹⁾. <i>Specifications</i> — Cuminaldehyde (4-isopropylbenzaldehyde): 15-46 % — γ-Terpinene: 13-32 % — β-Pinene (pin-2(10)-ene):7-20 % — α-Pinene (pin-2(3)-ene) :0,3-2 % — Estragole: maximum 0,05 % — Dillapiole: maximum 0,05 % CAS number: 8014-13-9 FEMA number: 2343 CoE number: 161 <i>Analytical method</i> ⁽²⁾ For the determination of alpha-pinene and cuminaldehyde (phytochemical markers) in the feed additive: gas chromatography coupled to flame ionisation detection (GC-FID)	All animal species	-	-	15	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. Mixture of cumin essential oil with other botanical additives is permitted provided that the amounts of estragole and dillapiole in feed materials and compound feed are lower than the one resulting from the use of a single additive at the maximum or recommended content for the species or animal 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.	4.2.2034

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

⁽²⁾ 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.

(²) 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	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								
2b92456-t	Dong quai tincture	Additive composition	Horses	-	-	123	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. Mixture of dong quai tincture with other botanical additives is permitted provided that the amounts of furocoumarins and safrole in feed materials and compound feed are lower than the one resulting from the use of a single additive at the maximum or recommended content for the species or animal 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.	4.2.2034
		Dong quai tincture obtained from the roots of <i>Angelica sinensis</i> (Oliv.) Diels	Dogs		481			
		Liquid form	Cats		184			
		Characterisation of the active substance						
		Dong quai tincture obtained from the roots of <i>Angelica sinensis</i> (Oliv.) Diels by extraction with water/ethanol solvent as defined by the Council of Europe ⁽¹⁾ .						
		Specifications						
		Dry matter content: maximum 10 %						
		— Ferulic acid: 0,004-0,007 %						
		— Chlorogenic acid: 0,001-0,006 %						
		— Safrole: maximum 0,0001 %						
		— Furocoumarins: maximum 0,0001 %						
		Analytical method ⁽²⁾						
		For the determination of ferulic acid and chlorogenic acid (phytochemical markers) in the feed additive: high performance liquid chromatography coupled with diode array detection (HPLC-DAD)						

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

⁽²⁾ 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	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

2b2835-t	Parsley tincture	<i>Additive composition</i> Parsley tincture obtained from the seeds of <i>Petroselinum crispum</i> (Mill.) Fuss Liquid form <i>Characterisation of the active substance</i> Parsley tincture obtained from the seeds of <i>Petroselinum crispum</i> (Mill.) Fuss by extended extraction with water/ethanol solvent as defined by the Council of Europe ⁽¹⁾. <i>Specifications</i> Dry matter content: maximum 0,9 % — Total polyphenols: 0,018-0,022 % — Total flavonoids: 0,004-0,012 % — Apiole: maximum 0,0092 % — Elemicin: maximum 0,0016 % — Myristicin: maximum 0,0011 % FEMA number:2835 ⁽²⁾ <i>Analytical method ⁽³⁾</i> For the characterisation of the feed additive: — spectrophotometry for the determination of total polyphenols and — high performance thin-layer chromatography (HPTLC) for the determination of total flavonoids, myristicin and apiole .	All animal species except horses	-	-	50	- The additive shall be incorporated into the feed in the form of a premixture. - In the directions for use of the additive and premixtures, the storage conditions and stability to heat treatment shall be indicated. - Mixture of parsley tincture with other botanical additives is permitted provided that the amounts of apiole, elemicin and myristicin in feed materials and compound feed are lower than the one resulting from the use of a single additive at the maximum or recommended content for the species or animal category. - 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.	4.2.2034
			Horses			200		

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

⁽²⁾ This number corresponds to parsley.

⁽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.

Identification 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 authorisation
					mg active substance /kg of complete feed with a moisture content of 12 %			

Category: Sensory additives. Functional group: Flavouring compounds

2b2095-t	Star anise tincture	<i>Additive composition</i> Star anise tincture obtained from the fruit (pericarp and seeds) of <i>Illicium verum</i> Hook f.	All animal species except horses Horses	-	-	50	— The additive shall be incorporated into the feed in the form of a premixture. — In the directions for use of the additive and premixtures, the storage conditions and stability to heat treatment shall be indicated. — Mixture of star anise tincture with other botanical additives is permitted provided that the amounts of estragole and safrole in feed materials and compound feed are lower than the one resulting from the use of a single additive at the maximum or recommended content for the species or animal category. — 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.	4.2.2034
		Liquid form <i>Characterisation of the active substance</i> Star anise tincture obtained from the fruit (pericarp and seeds) of <i>Illicium verum</i> Hook f. by extended extraction with water/ethanol solvent as defined by the Council of Europe ⁽¹⁾ <i>Specifications</i> Dry matter content: maximum 2,2 % — Total polyphenols: 0,21-0,31 % — Total flavonoids: 0,022-0,024 % — Rutin: 0,0024–0,0044 % — Anethole: 0,0172–0,0182 % — Estragole: maximum 0,00039 % — Safrole: maximum 0,0010 % FEMA number:2095 ⁽²⁾ Analytical method ⁽³⁾ For the characterisation of the feed additive: — spectrophotometry for the determination of total polyphenols and — high performance thin-layer chromatography (HPTLC) for the determination of total flavonoids and anethole				200		

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

⁽²⁾ This number corresponds to star anise.

⁽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.

Identification 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 authorisation
					mg active substance/kg of complete feed with a moisture content of 12 %			

Category: Sensory additives. Functional group: Flavouring compounds

2b196-eo	Asafoetida essential oil	<i>Additive composition</i> Asafoetida essential oil obtained from the rhizome of <i>Ferula-assa-foetida</i> L. Liquid form <i>Characterisation of the active substance</i> Asafoetida essential oil obtained by steam distillation of dried gum resin of the cut rhizome of <i>Ferula assa-foetida</i> L. as defined by the Council of Europe ⁽¹⁾. <i>Specifications</i> — (E)-2-Butyl 3-(methylthio)-2-propenyl disulfide: 20-45 % — (E)-sec-Butyl propenyl disulfide: 8-25 % — (Z)-sec-Butyl propenyl disulfide: 8-24 % — Di-sec-Butyl disulfide: 4-16 % CAS number: 9000-04-8 FEMA number: 2108 CoE number: 196 <i>Analytical method ⁽²⁾</i> For the determination of (E)-sec-butyl propenyl disulfide (phytochemical marker) in the feed additive: gas chromatography coupled to flame ionisation detection (GC-FID)	Cats Dogs	-	-	-	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. On the label of the additive, the following shall be indicated: “Recommended maximum content of the active substance per kg of complete feeding-stuff with a moisture content of 12 %: — 1,5 mg for dogs — 0,2 mg for cats” 4. The functional group, the identification number, the name and the added amount of the active substance shall be indicated on the label of the premixture where the use level on the label of the premixture would result in exceeding the level referred to in point 3. — 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.	4.2.2034
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⁽¹⁾ Natural sources of flavourings – Report No 2 (2007).

⁽²⁾ 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	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								
2b42-eo	Dill herb essential oil	<i>Additive composition</i> Dill herb essential oil obtained from stems and leaves of <i>Anethum graveolens</i> L. Liquid form <i>Characterisation of the active substance</i> Dill herb essential oil obtained from stems and leaves of <i>Anethum graveolens</i> L. by steam distillation as defined by the Council of Europe ⁽¹⁾. <i>Specifications</i> — Carvone: 28-45 % — Limonene: 16-35 % — α-Phellandrene: 16-31 % — Dill ether (3,6-Dimethyl-2,3,3a,4,5,7a-hexahydrobenzofuran): 4-9 % — Estragole: maximum 0,0003 % — Myristicin: maximum 0,005 % — Apiole: maximum 0,0003 % — Dillapiole: maximum 0,01 % CAS number:8006-75-5 FEMA number: 2383 CoE number: 42 <i>Analytical method</i> ⁽²⁾ For the determination of carvone (phytochemical marker) in the feed additive: gas chromatography coupled to flame ionisation detection (GC-FID)	Dogs Cats	-	-	-	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. On the label of the additive, the following shall be indicated: “Recommended maximum content of the active substance per kg of complete feeding-stuff with a moisture content of 12 %: — 7 mg for dogs — 5 mg for cats” 4. The functional group, the identification number, the name and the added amount of the active substance shall be indicated on the label of the premixture where the use level on the label of the premixture would result in exceeding the level referred to in point 3. 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.	4.2.2034

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

⁽²⁾ 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	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								
2b42-t	Dill tincture	<i>Additive composition</i> Dill tincture obtained from the fruit of <i>Anethum graveolens</i> L. Liquid form	All animal species except horses	-	-	50	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. Mixture of dill tincture with other botanical additives is permitted provided that the amounts of estragole in feed materials and compound feed are lower than the one resulting from the use of a single additive at the maximum or recommended level for the species or animal 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.	4.2.2034
		<i>Characterisation of the active substance</i> Dill tincture obtained from the dried fruit of <i>Anethum graveolens</i> L. by extended extraction with a water/ethanol solvent as defined by the Council of Europe ⁽¹⁾ . <i>Specifications</i> Dry matter content: maximum 1,1 % — Total polyphenols: 0,02-0,03 % — Flavonoids:0,01-0,02 % — Carvone: 0,001-0,005 % — Estragole: maximum 1,2 mg/kg FEMA number: 2382 CoE number: 42 <i>Analytical method</i> ⁽²⁾ For the characterisation of the feed additive (dill tincture): — spectrophotometry for the determination of total polyphenols and — high performance thin-layer chromatography (HPTLC) for the determination of total flavonoids and the phytochemical marker carvone	Horses		200			

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

⁽²⁾ 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.