

**TECHNICAL DATASHEET****Part 1: General Information**

<b>Product:</b>	Lavender dry extract > 8.0% polyphenols
<b>Code:</b>	3519208
<b>Botanic name:</b>	Lavandula angustifolia Mill. (Syn) Lavandula angustifolia subsp. angustifolia, Lavandula officinalis Chaix
<b>INCI name:</b>	LAVANDULA ANGUSTIFOLIA FLOWER EXTRACT
<b>CAS number:</b>	90063-37-9
<b>EINECS/ELINCS number:</b>	289-995-2
<b>Extraction solvent:</b>	water / ethanol
<b>Carrier and/or auxiliary substances:</b>	maltodextrin (from corn) added until stated assay
<b>Botanic family:</b>	Lamiaceae (Labiatae)
<b>Product origin:</b>	Italy
<b>Origin of the raw material used for this product:</b>	Balkans (e.g. Albania)
<b>Growing condition:</b>	cultivated
<b>Vegetable period:</b>	at flowering
<b>Collection period:</b>	spring-summer
<b>Part of plant used:</b>	flowers
<b>Preparation type:</b>	dry extract
<b>Intended use:</b>	as raw material (ingredient) intended for manufacturing of food and a wide range of final products

**Active substances of the plant:**

polyphenols  $\geq 8.0\%$ , essential oil (the main component is R-linalyl acetate, linalool, terpinene-4-ol and lavandulyl acetate), tannins, rosmarinic acid, flavonoids, traces of phytosterols and triterpenes

**Biologic marker:**

polyphenols, essential oil

**Physiologic and healthcare applications:**

Digestive. Spasmolytic, carminative (used in IBS, bloating and flatulence), Relief of mild symptoms of mental stress and anxiety, sleep aid. Topical use: cleansing, deodorant, masking, refreshing, tonic.

**Toxicological data:**

vegetal extract of natural origin: no toxic indication is actually available.

**Contra-indications; warnings:**

none known

**Eventual particular notes:**

The possible variation of colour from batch to batch does not affect the final quality of the extract, indeed, it demonstrates its naturalness;  
combinations with other sedative and/or carminative herbs may be beneficial

**Preservatives:**

absent

**Antioxidants:**

absent

**Storage conditions:**

store in a well closed container away from moisture and direct sun light

**Retest Date:**

three years from manufacturing date

1	21/06/2024	Dott.ssa L.Colombo
REV.	DATE	WRITTEN QA

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**PART 2: Technical Specification**

(Analytical methods from Ph. Eur current edition, except where otherwise specified; mentioned Regs. include subs. amendments and updates)

**Product:** Lavender dry extract > 8.0% polyphenols  
**Code:** 3519208  
**E/D Ratio:** up to stated assay

**TECHNICAL DATASHEET**

Description:	hygroscopic powder
Colour:	greenish-brown
Odor:	characteristic
Taste:	characteristic
TLC:complies with the analysis performed on the raw material	complies *
Assay:Total polyphenols, as Gallic acid (spectrofotometric method, Folin- Ciocalteu)	>= 8,0 % w/w
Assay:	total essential oil: <= 1.0% w/w (upon request)
Assay:	camphor: <= 2.5% w/w (upon request)
Bulk density:	350 - 550 g/l
Loss on drying:	<= 7,0 % w/w
pH:	4,0 - 6,0
Hydrosolubility Solubility in cold or hot water	partially watersoluble
Heavy metals:	< 20 ppm (method C Ph. Eur. current edition)
Lead (Reg. No (EU) 2023/915 and subs. amendments and updates):	<= 3,0 ppm*
Cadmium (Reg. No (EU) 2023/915 and subs. amendments and updates):	<= 1,0 ppm*
Mercury (Reg. No (EU) 2023/915 and subs. amendments and updates):	<= 0,1 ppm*
Residual solvents:	complies to Ph. Eur. current edition and Directive 2009/32/EC*
Pesticides:	complies to Ph. Eur. current edition and Reg. 2005/396/EC and amendments concerning pesticides residues searched (with reference to E/D ratio)*
Aflatoxins:	Aflatoxin B1: < 2 ppb* Aflatoxin B1,B2,G1,G2: < 4 ppb*
Benzo(a)pyrene (Reg. No (EU) 2023/915 and subs. amendments and updates)	<= 10,0 ppb*
Sum of 4 PAHs: Reg. No (EU) 2023/915 and subs. amendments and updates	<= 50,0 ppb*
Pyrrolizidine alkaloids: Reg. No (EU) 2023/915 and subs. amendments and updates	<= 400 ppb*
Microbiological quality (Ref. Ph. Eur. current edition depending on the intended use)	
Bacterial count (TAMC: ref. 5.1.8, cat. B oral use):	<= 5 x 10.000 ufc/g
Yeasts and Moulds (TYMC: ref. 5.1.8, cat. B oral use):	<= 5 x 100 ufc/g
Pathogens (ref. 5.1.8, cat. B oral use):	Salmonella: absent in 25 g* Escherichia coli: absent in 1 g*
Bile-tolerant gram-negative bacteria (ref. 5.1.8, cat. B oral use):	<= 100 ufc/g*
Note:	DNA CERTIFIED RAW MATERIAL
	GMO: Free from GMO (Reg. (EC) 1829/2003 and 1830/2003) BSE/TSE FREE - GLUTEN FREE ALLERGENS: Free from substances or products causing allergies or intolerances (Reg. (EU) 1169/2011 Annex II)

(\*analysis performed on the basis of the specific self-control plan. TLC is performed on raw material.

The data reported in this Technical Data Sheet (excluding analytical ones) are taken from literature, among which (if applicable) Italian ministerial guidelines for physiological effects and CosIng (European Commission database for information on cosmetic substances).

Our extracts must be considered as raw materials (ingredients), produced in a food manufacturing site and they are non intended to be used by the final Consumer.

EPO srl guarantees that extracts are completely conforming to local and European legal frameworks. If belonging to specific category, otherwise the Customers must check the intended use (including the final formulation) and legal requirements for their final product at local a regional level

-The drug extract ratio (DER) is intended as drug (final) extract ratio, included any excipient, as per Ph. Eur. current edition "Monographs on herbal drug extracts"

- Herbal extracts with assay are intended as standardised extracts, unless otherwise specified

- In standardised extract the excipient is added for adjust the content of constituent(s) (assay) and for guarantee the final DER in extracts based on this parameter

- Concerning the pesticides residues, the stated conformity includes an uncertainty of measurement(according to SANTE') and processing factor coming from manufacturing process. MRL (Maximum Residue Levels) are not applied to extract, but it is applied to vegetal raw material.

1	20/06/2024	Dott.ssa A.Colace	Dott.ssa L.Colombo	Dott.ssa S. Vicentini
REV.	DATE	WRITTEN CQ	VERIFIED QA	APPROVED DT

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