Batch Number:
20260814-LANG1DST

ALTRAFLORA
NATURAL EXTRACTS

Manufactured:
14.08.2026

TECHNICAL DATA SHEET

Product Information

Product Name: Lavender essential oil (origin: Turkey), PN AF-LANG1DST

Scientific name: *Lavandula angustifolia*

Parts utilized for extraction: Flowering tops (fresh)

Appearance: Clear, pale-yellow mobile liquid

Aroma: Characteristic fresh floral, herbaceous, recalling the flowering tops

Solubility: Insoluble in water, soluble in ethanol and fixed oils

Raw Material Specification

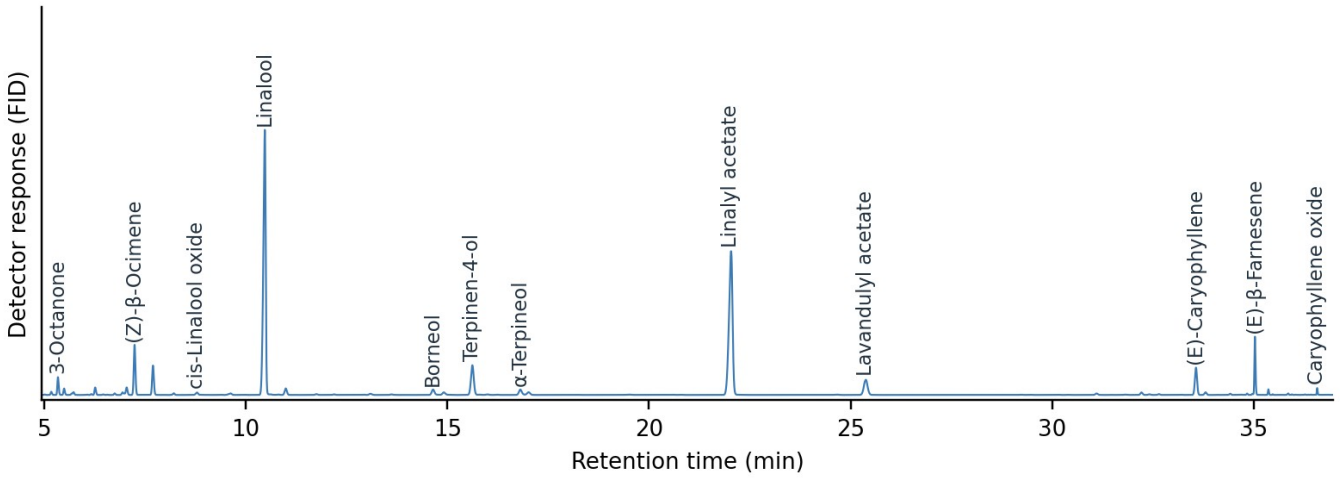
Analysis	Method	Result
Total ash for herb	Ph. Eur. (2.4.16)	<4%
Pesticides	GC/MS, LC-MS/MS	Complies with Ph. Eur. (2.8.13)
Aflatoxins (G1, G2, B1, B2)	AOAC 999.07	Complies with Ph. Eur. (2.8.18)
Ochratoxin A	AOAC 2004.10	Complies with Ph. Eur. (2.8.22)
Benzo(a)pyrene (PAH)	JOSS 2002 25, pp. 96–100	<10 ppb

Extract Specification

Analysis	Method	Specification	Result
Major components:			
Linalool	GC-FID, area normalisation (AF-LABGC003)	20.0 – 43.0 %	35.59 %
Linalyl acetate		25.0 – 47.0 %	29.11 %
Terpinen-4-ol		max. 8.0 %	4.86 %
cis-β-Ocimene		1.0 – 10.0 %	4.76 %
trans-β-Ocimene		0.5 – 6.0 %	2.92 %
Lavandulyl acetate		max. 8.0 %	3.28 %
1,8-Cineole		max. 3.0 %	0.81 %
Camphor		max. 0.3 %	n.d.
TOTAL IDENTIFIED		**min. 95 %**	**98.23 %**
Conformity with ISO 3515:2002 (chromatographic profile, clause 4.10)	GC-FID vs ISO 3515:2002 (AF-LABDP001)	Conforms	Conforms
Arsenic (As)	ICP-OES (In-house method)	N.D. (< 1 ppm)	N.D.
Cadmium (Cd)		N.D. (< 3 ppm)	N.D.
Lead (Pb)		N.D. (< 1 ppm)	N.D.
Mercury (Hg)		N.D. (< 0.1 ppm)	N.D.
Total aerobic microbial count (cfu/g)	ISO 4833-1	<10000	Complies
Yeast & mold (cfu/g)	ISO 21527-2	<100	Complies
Escherichia coli	ISO 16649-2	N.D. (in 1 g)	N.D.
Salmonella	ISO 6579	N.D. (in 25 g)	N.D.
Pseudomonas aeruginosa	ISO 13720	N.D. (in 1 g)	N.D.
Staphylococcus aureus	ISO 6888-1	N.D. (in 1 g)	N.D.

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Chromatogram



Additional Data

Storage conditions: Store in cool and dry place, keep away from intense light and high heat.

Carrier: None. This is a pure, undiluted essential oil.

Packaging: 1–5 kg/bottle, 10–25–50 kg/drum.

Shelf life: 24 months

Dosage and use: Lavender essential oil is used in cosmetic and personal-care formulations for its calming aroma and skin-soothing properties, as a natural flavour in confectionery and beverages, and as a fragrance ingredient in candles, soaps and household products. Typical use levels are 0.1–1.0 % in leave-on cosmetics and 0.5–3.0 % in rinse-off products; the oil should be diluted in a carrier before skin contact. The composition is dominated by linalool and linalyl acetate, which together account for roughly two thirds of the oil.

Conformity with ISO 3515:2002

All thirteen constituents of the ISO 3515:2002 normative chromatographic profile (clause 4.10, Table 1, “other origins”) are within the limits of the standard; this product conforms.

Constituent	ISO 3515:2002 limit	Result	Conformity
Limonene	max. 1.0 %	0.27 %	Complies
1,8-Cineole	max. 3.0 %	0.81 %	Complies
β-Phellandrene	max. 1.0 %	n.d.	Complies
cis-β-Ocimene	1.0 – 10.0 %	4.76 %	Complies
trans-β-Ocimene	0.5 – 6.0 %	2.92 %	Complies
3-Octanone	max. 3.0 %	1.38 %	Complies
Camphor	max. 1.5 %	n.d.	Complies
Linalol	20.0 – 43.0 %	35.59 %	Complies
Linalyl acetate	25.0 – 47.0 %	29.11 %	Complies
Lavandulol	max. 3.0 %	0.42 %	Complies
Terpinen-4-ol	max. 8.0 %	4.86 %	Complies
Lavandulyl acetate	max. 8.0 %	3.28 %	Complies
α-Terpineol	max. 2.0 %	0.93 %	Complies

n.d. = not detected. Conformity assessed by GC-FID area normalisation against clause 4.10 only; clauses 4.4–4.9 (density, refractive index, optical rotation, miscibility, acid and ester value) are outside the scope of this data sheet.

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Full chromatographic profile (GC-FID)

Name	CAS	RT (min)	Content (%)
1-Hexanol	111-27-3	2.763	0.08
α-Thujene	2867-05-2	3.839	0.13
α-Pinene	80-56-8	4.019	0.23
Camphene	79-92-5	4.415	0.11
1-Octen-3-ol	3391-86-4	5.175	0.26
3-Octanone	106-68-3	5.341	1.38
β-Myrcene	123-35-3	5.493	0.53
3-Octanol	589-98-0	5.727	0.35
Hexyl acetate	142-92-7	6.264	0.65
p-Cymene	99-87-6	6.747	0.14
Limonene	138-86-3	6.941	0.27
1,8-Cineole	**470-82-6**	**7.045**	**0.81**
(Z)-β-Ocimene	3338-55-4	7.241	4.76
(E)-β-Ocimene	3779-61-1	7.697	2.92
γ-Terpinene	99-85-4	8.212	0.18
cis-Linalool oxide	5989-33-3	8.790	0.33
trans-Linalool oxide	34995-77-2	9.624	0.27
Linalool	**78-70-6**	**10.471**	**35.59**
1-Octen-3-yl acetate	2442-10-6	10.991	0.85
3-Octyl acetate	4864-61-3	12.185	0.08
Borneol	507-70-0	14.644	0.88
Lavandulol	58461-27-1	14.911	0.42
Terpinen-4-ol	**562-74-3**	**15.619**	**4.86**
α-Terpineol	98-55-5	16.808	0.93
Hexyl butyrate	2639-63-6	17.014	0.50
Linalyl acetate	**115-95-7**	**22.035**	**29.11**
Lavandulyl acetate	**25905-14-0**	**25.378**	**3.28**
Geranyl acetate	141-12-8	32.647	0.10
(E)-Caryophyllene	13877-93-5	33.566	3.44
α-Santalene	512-61-8	33.803	0.33
(E)-β-Farnesene	18794-84-8	35.027	3.68
β-Copaene	18252-44-3	35.361	0.34
γ-Muurolene	30021-74-0	35.853	0.11
Caryophyllene oxide	1139-30-6	36.571	0.33

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