Batch Number:
20260610-CTBG1EO

ALTRAFLORA
NATURAL EXTRACTS

Manufactured:
10.06.2026

TECHNICAL DATA SHEET

Product Information

Product Name: Bergamot essential oil (cold-pressed), PN AF-CTBG1EO

Scientific name: *Citrus bergamia*

Parts utilized for extraction: Fruit peel (fresh)

Appearance: Pale yellow-green mobile liquid

Aroma: Fresh, citrus, sweet-floral with a balsamic base

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)	<5%
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:			
Pinene <alpha->	GC-FID (in-house method)	>1.5 %	2.21 %
Pinene <beta->		>5.0 %	7.13 %
Limonene		>40.0 %	48.82 %
Terpinene <gamma->		>3.0 %	4.27 %
Linalool		>7.5 %	10.41 %
Linalyl acetate		>15.0 %	21.90 %
TOTAL		**>85.0 %**	**94.74 %**
Loss on drying (%)	Ph. Eur. (2.8.17)	<5%	<5%
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.

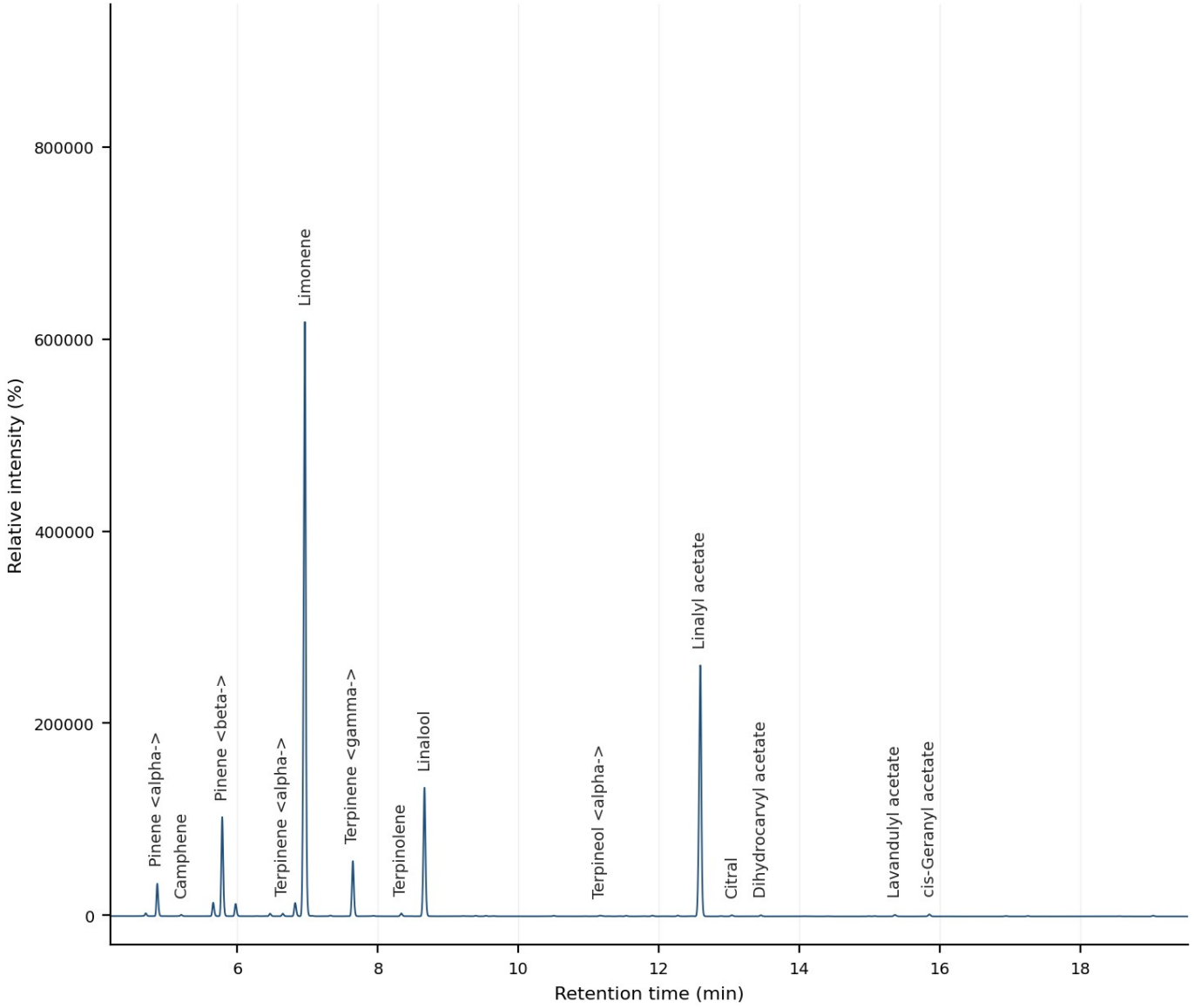
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Chromatogram



Additional Data

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

Carrier: None. This is a pure cold-pressed essential oil.

Packaging: 50 mL – 1 L amber glass; 5–25 kg lacquered steel drum.

Shelf life: 24 months

Dosage and use: Bergamot oil is the signature top note of Eau de Cologne and of Earl Grey tea flavourings. Fine-fragrance and personal-care formulators use it for a bright, sparkling citrus opening with more floral persistence than lemon or orange. In flavour work it lifts confectionery, black tea blends and bitter aperitifs. Aromatherapy applications emphasise mood elevation and relaxation. Note that expressed bergamot oil contains photosensitising furocoumarins; for leave-on skin products either observe the applicable dermal limit or specify a bergapten-reduced (FCF) grade.

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Full chromatographic profile (GC-FID)

Name	CAS	Category	RT (min)	Content (%)
Thujene <alpha->	2867-05-2	Monoterpenoids	4.695	0.21
Pinene <alpha->	**80-56-8**	**Monoterpenoids**	**4.859**	**2.21**
Camphene	79-92-5	Monoterpenoids	5.200	0.11
Sabinene	3387-41-5	Monoterpenoids	5.655	0.97
Pinene <beta->	**127-91-3**	**Monoterpenoids**	**5.784**	**7.13**
Myrcene	123-35-3	Monoterpenoids	5.975	0.89
3-Carene	13466-78-9	Monoterpenoids	6.465	0.19
Terpinene <alpha->	99-86-5	Monoterpenoids	6.646	0.20
Cymene <para->	99-87-6	Monoterpenoids	6.822	1.05
Limonene	**138-86-3**	**Monoterpenoids**	**6.960**	**48.82**
Terpinene <gamma->	**99-85-4**	**Monoterpenoids**	**7.643**	**4.27**
Terpinolene	586-62-9	Monoterpenoids	8.332	0.23
Linalool	**78-70-6**	**Monoterpenoids**	**8.662**	**10.41**
Terpinyl acetate <beta->	10198-23-9	Monoterpenoids	9.392	0.05
Isononyl acetate	58430-94-7	Esters	10.501	0.05
Terpineol <alpha->	98-55-5	Monoterpenoids	11.162	0.10
Octyl acetate	112-14-1	Monoterpenoids	11.533	0.05
Linalyl acetate	**115-95-7**	**Monoterpenoids**	**12.588**	**21.90**
Citral	5392-40-5	Monoterpenoids	13.035	0.10
Dihydrocarvyl acetate	20405-60-1	Esters	13.448	0.10
Lavandulyl acetate	25905-14-0	Monoterpenoids	15.356	0.14
cis-Geranyl acetate	141-12-8	Monoterpenoids	15.846	0.19
Bergamotene <alpha-, cis->	18252-46-5	Sesquiterpenoids	17.249	0.04
Bisabolene <beta->	4891-79-6	Sesquiterpenoids	19.031	0.07

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