Batch Number:
20260907-CTBG1FRG

ALTRAFLORA
NATURAL EXTRACTS

Manufactured:
07.09.2026

TECHNICAL DATA SHEET

Product Information

Product Name: Bergamot food fragrance oil (cold-pressed), PN AF-CTBG1FRG

Scientific name: *Citrus bergamia*

Parts utilized for extraction: Fruit peel (fresh)

Appearance: Clear, colourless to 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:			
α-Pinene	GC-FID, area normalisation (AF-LABGC003)	> 1.5 %	2.21 %
β-Pinene		> 5.0 %	7.13 %
Limonene		> 40.0 %	48.82 %
γ-Terpinene		> 3.0 %	4.27 %
Linalool		> 7.5 %	10.41 %
Linalyl acetate		> 15.0 %	21.90 %
TOTAL		**> 85.0 %**	**94.74 %**
Identified compounds (GC-FID area)	GC-FID, area normalisation (AF-LABGC003)	min. 95 %	99.48 %
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.

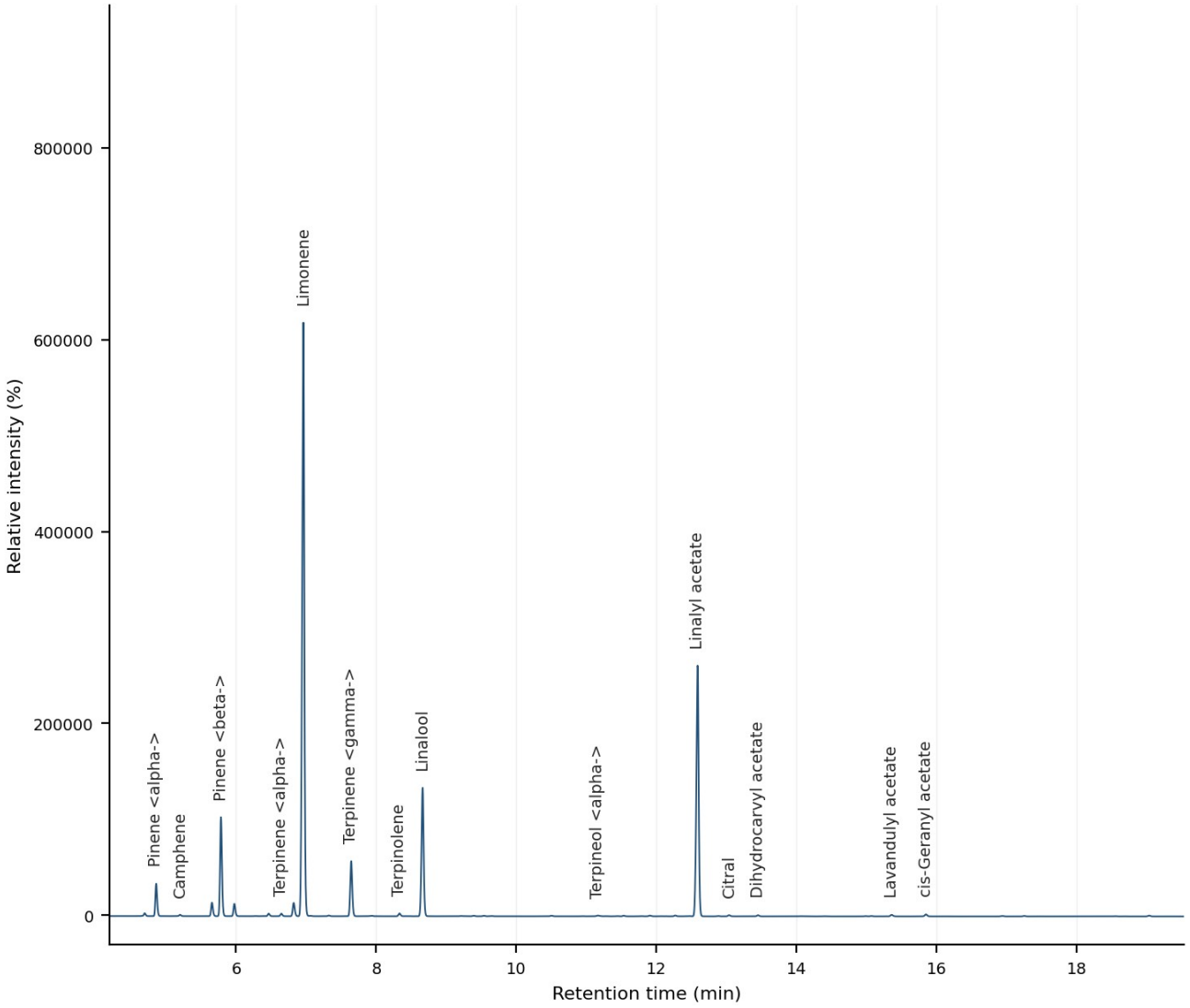
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Chromatogram



Additional Data

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

Carrier: Fractionated coconut oil (caprylic/capric triglyceride, MCT).

Packaging: 10 g, 15 g and 30 g amber glass bottles with food-grade fine-mist spray head.

Shelf life: 24 months

Dosage and use: Bergamot is the signature top note of Earl Grey tea flavouring and of Eau de Cologne. In flavour work it lifts confectionery, black tea blends, bitter aperitifs and citrus desserts; in fragrance it gives a bright, sparkling opening with more floral persistence than lemon or orange. 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. Compositional figures in the Extract Specification and the chromatographic profile refer to the essential-oil fraction of the product, determined by GC-FID area normalisation; the carrier is stated separately above.

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Full chromatographic profile (GC-FID)

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

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