Batch Number:
20260611-LIMO1TPR

ALTRAFLORA
NATURAL EXTRACTS

Manufactured:
11.06.2026

TECHNICAL DATA SHEET

Product Information

Product Name: d-Limonene, natural citrus-derived isolate, PN AF-LIMO1TPR

Scientific name: *Citrus spp.*

Parts utilized for extraction: Citrus peel oil (fractionated)

Appearance: Colourless to pale yellow mobile liquid

Aroma: Clean, light citrus, characteristic orange-peel top note

Solubility: Insoluble in water, miscible with 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:			
Myrcene	GC-FID (in-house method)	>1.5 %	1.70 %
Limonene		>85.0 %	97.24 %
TOTAL		**>85.0 %**	**98.94 %**
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.

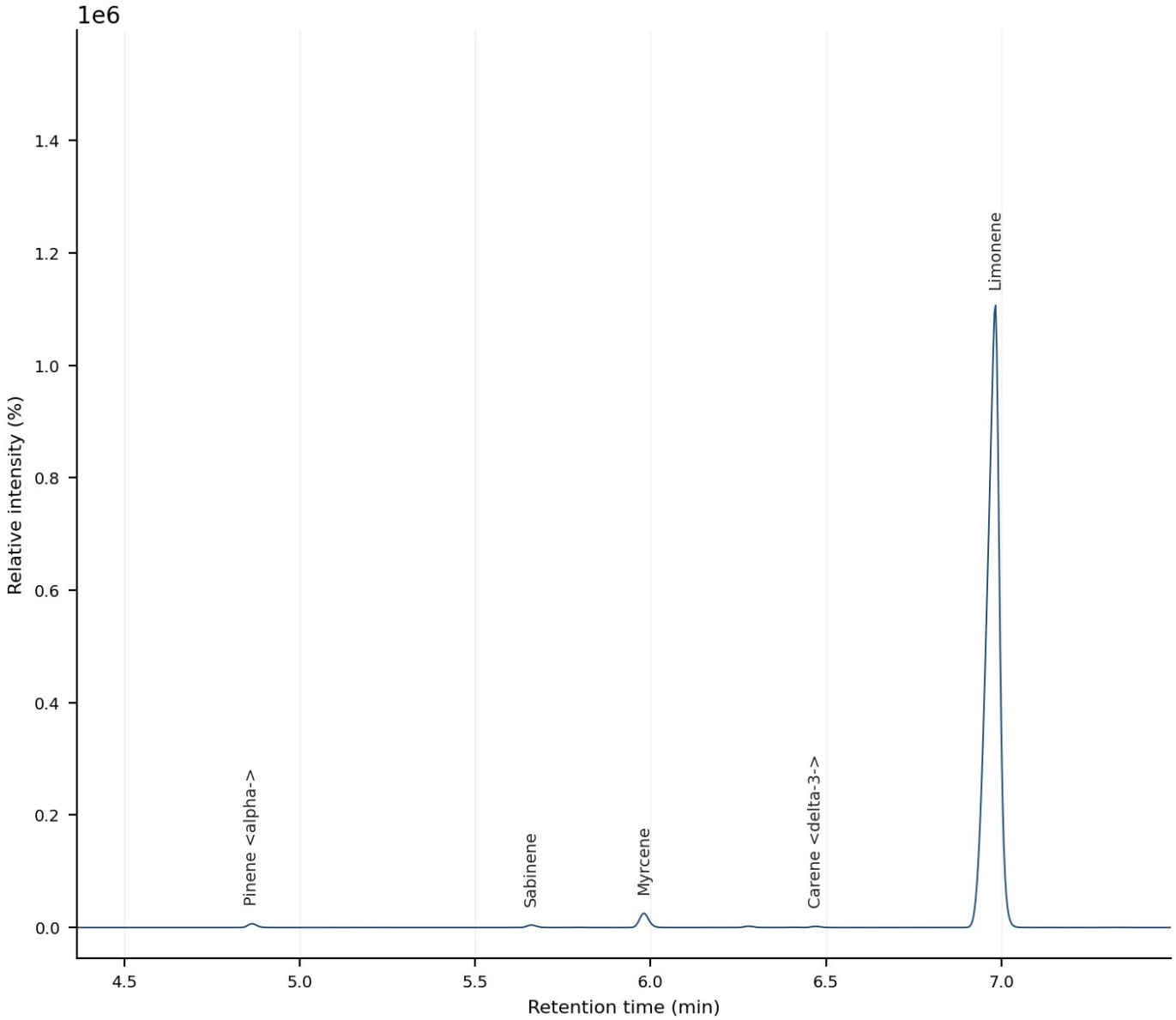
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Chromatogram



Additional Data

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

Carrier: None. This is a distilled natural isolate with no added solvent, antioxidant or diluent.

Packaging: 5–25 kg lacquered steel drum; 190 kg drum on request.

Shelf life: 12 months

Dosage and use: d-Limonene is used as a natural solvent and degreaser in industrial and household cleaning, as a bio-based replacement for chlorinated solvents, and as a citrus flavour and fragrance component where a clean limonene note is wanted without the heavier oxygenated fraction of a whole peel oil. It also serves as a feedstock for carvone and other terpene derivatives. Because limonene autoxidises to sensitising hydroperoxides, store under inert gas where practical and keep cool, dark and well-sealed; check peroxide value before use in skin-contact products.

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Full chromatographic profile (GC-FID)

Name	CAS	Category	RT (min)	Content (%)
Pinene <alpha->	80-56-8	Monoterpenoids	4.864	0.44
Sabinene	3387-41-5	Monoterpenoids	5.660	0.30
Myrcene	**123-35-3**	**Monoterpenoids**	**5.981**	**1.70**
Octanal	124-13-0	Ketones & Aldehydes	6.279	0.17
Carene <delta-3->	13466-78-9	Monoterpenoids	6.471	0.15
Limonene	**138-86-3**	**Monoterpenoids**	**6.982**	**97.24**

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