Batch Number:
20260907-CTSI1FRG

ALTRAFLORA
NATURAL EXTRACTS

Manufactured:
07.09.2026

TECHNICAL DATA SHEET

Product Information

Product Name: Sweet orange food fragrance oil (cold-pressed), PN AF-CTSI1FRG

Scientific name: *Citrus sinensis*

Parts utilized for extraction: Fruit peel (fresh)

Appearance: Clear, colourless to pale-orange mobile liquid

Aroma: Fresh, sweet and juicy citrus, true to ripe orange peel

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

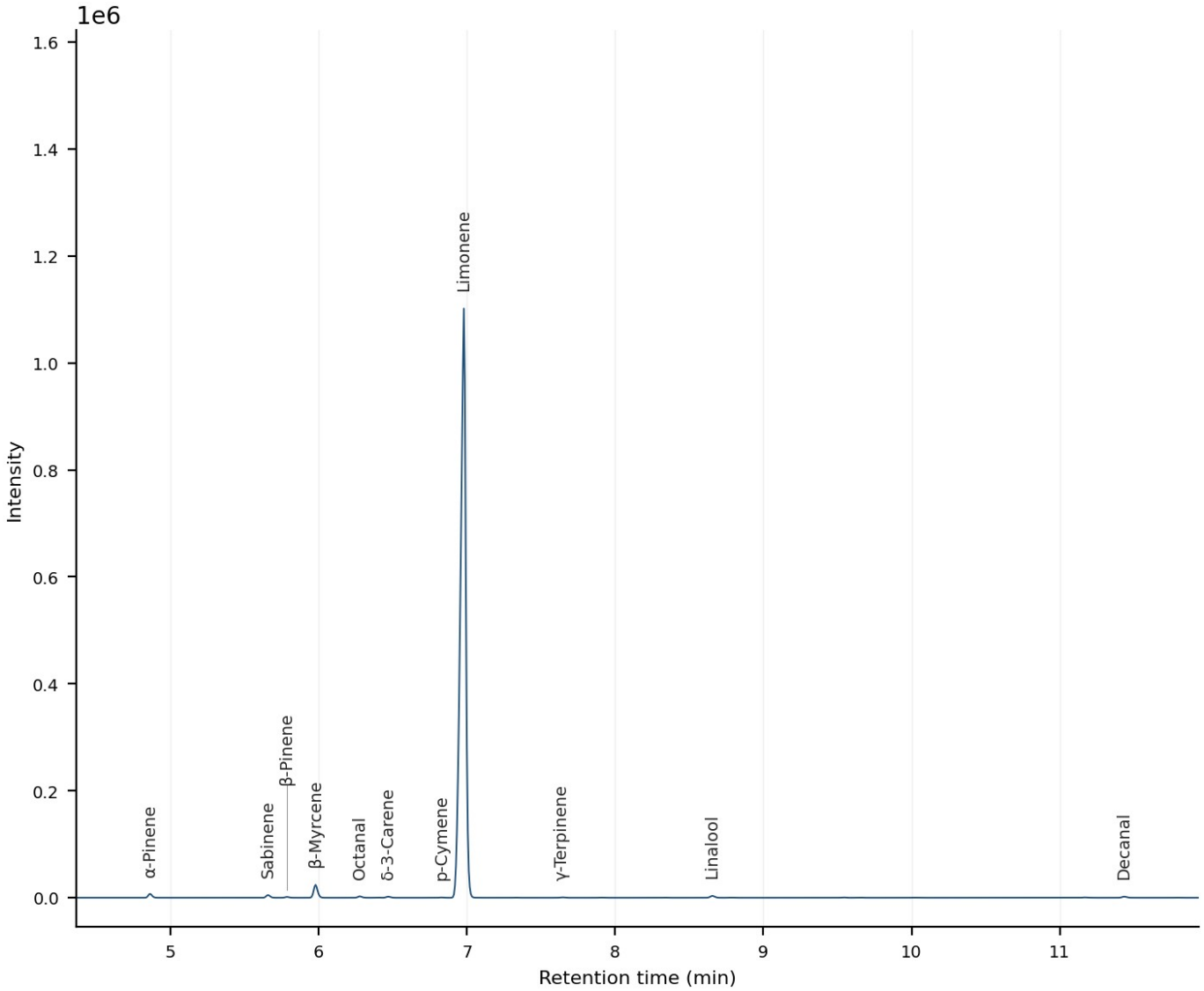
Analysis	Method	Specification	Result
Major components:			
Limonene	GC-FID, area normalisation (AF-LABGC003)	min. 90 %	96.43 %
β-Myrcene		min. 1.0 %	1.59 %
α-Pinene		max. 1.0 %	0.46 %
Sabinene		max. 1.0 %	0.33 %
Linalool		max. 1.0 %	0.27 %
TOTAL		**min. 95 %**	**99.08 %**
Identified compounds (GC-FID area)	GC-FID, area normalisation (AF-LABGC003)	min. 98 %	99.78 %
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: Sweet orange is the most widely used citrus fragrance in food work — confectionery, bakery, dairy, soft drinks and syrups — and is equally at home in candles, soaps and cleaning fragrances. The profile is overwhelmingly d-limonene, which gives the immediate juicy lift but also makes the material prone to oxidation: keep containers closed, cold and full. As with all expressed citrus peel oils, observe the photosensitivity guidance applicable to leave-on skin products. 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-Pinene	**80-56-8**	**4.863**	**0.46**
Sabinene	**3387-41-5**	**5.659**	**0.33**
β-Pinene	127-91-3	5.787	0.10
β-Myrcene	**123-35-3**	**5.980**	**1.59**
Octanal	124-13-0	6.277	0.18
δ-3-Carene	13466-78-9	6.469	0.15
p-Cymene	99-87-6	6.829	0.04
Limonene	**138-86-3**	**6.980**	**96.43**
γ-Terpinene	99-85-4	7.644	0.06
Linalool	**78-70-6**	**8.656**	**0.27**
Decanal	112-31-2	11.435	0.17

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