Batch Number:
20260907-MEPI1FRG

ALTRAFLORA
NATURAL EXTRACTS

Manufactured:
07.09.2026

TECHNICAL DATA SHEET

Product Information

Product Name: English mint food fragrance oil, PN AF-MEPI1FRG

Scientific name: *Mentha balsamea*

Parts utilized for extraction: Aerial parts (dried)

Appearance: Clear, colourless to pale-yellow mobile liquid

Aroma: Sharp, cooling and sweetly minty with a clean menthol lift

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:			
Menthol	GC-FID, area normalisation (AF-LABGC003)	28 – 40 %	30.70 %
Menthone		15 – 32 %	24.88 %
Limonene		1.0 – 15.0 %	10.88 %
Isomenthone		2.0 – 10.0 %	7.61 %
Neomenthyl acetate		1.0 – 5.0 %	2.45 %
β-Pinene		max. 3.0 %	1.45 %
α-Pinene		max. 3.0 %	1.24 %
TOTAL		**min. 75 %**	**79.21 %**
Identified compounds (GC-FID area)	GC-FID, area normalisation (AF-LABGC003)	min. 88 %	91.07 %
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.

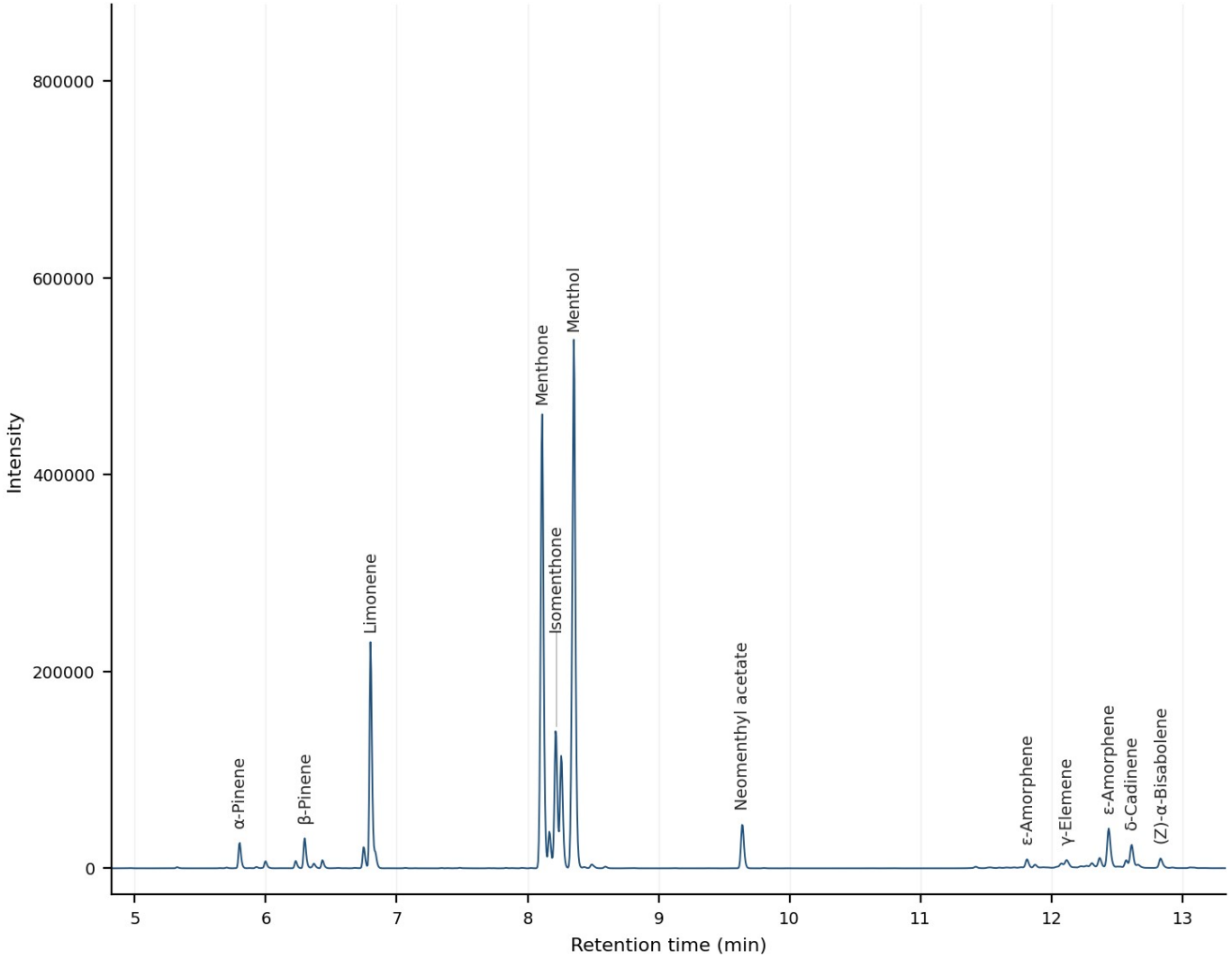
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Chromatogram



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: English mint is used across confectionery, chewing gum, chocolate, dairy and beverage flavouring, in oral-care fragrance, and in cooling personal-care and household products. Menthol and menthone together define the profile; the menthol level governs the perceived cooling, while menthone and isomenthone supply the herbal-minty depth. The material is powerful — small additions carry a long way, and overdosing reads as harsh rather than fresh. 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 (%)
2,5-Diethyltetrahydrofuran	41239-48-9	5.324	0.06
α-Thujene	2867-05-2	5.702	0.04
α-Pinene	**80-56-8**	**5.801**	**1.24**
cis-3-Methylcyclohexanol	5454-79-5	5.930	0.07
3-Methylcyclohexanone	591-24-2	5.999	0.37
Sabinene	3387-41-5	6.229	0.35
β-Pinene	**127-91-3**	**6.298**	**1.45**
Menthomenthene	500-00-5	6.368	0.26
4-Methyl-3-heptanol	14979-39-6	6.434	0.39
p-Cymene	99-87-6	6.749	0.99
Limonene	**138-86-3**	**6.801**	**10.88**
δ-2-Carene	554-61-0	7.481	0.04
Menthone	**10458-14-7**	**8.111**	**24.88**
Isomenthone	**491-07-6**	**8.215**	**7.61**
Menthol	**1490-04-6**	**8.353**	**30.70**
Neomenthol	2216-52-6	8.490	0.23
Neoisocarquejanol	31104-61-7	8.594	0.09
Neomenthyl acetate	**2230-87-7**	**9.640**	**2.45**
(E)-Caryophyllene	13877-93-5	11.421	0.14
α-Duprezianene	214895-45-1	11.530	0.10
Isogermacrene D	317819-80-0	11.715	0.08
ε-Amorphene	54932-90-0	11.813	0.65
Isogermacrene D	317819-80-0	11.938	0.15
γ-Muurolene	30021-74-0	12.076	0.41
γ-Elemene	29873-99-2	12.116	0.73
Decahydro-1,6-dimethyl-4-(propan-2-yl)naphthalene	29788-41-8	12.268	0.18
Viridiflorene	21747-46-6	12.368	0.71
ε-Amorphene	54932-90-0	12.437	2.80
γ-Cadinene	38357-83-4	12.570	0.46
δ-Cadinene	16729-01-4	12.612	1.84
(Z)-α-Bisabolene	29837-07-8	12.833	0.72

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