Batch Number:
20261017-MEAR1EML

ALTRAFLORA
NATURAL EXTRACTS

Manufactured:
17.10.2026

TECHNICAL DATA SHEET

Product Information

Product Name: Japanese mint food fragrance — water-dispersible, PN AF-MEAR1EML

Scientific name: *Mentha arvensis*

Parts utilized for extraction: Aerial parts (dried)

Appearance: Milky-white to pale-yellow oil-in-water emulsion

Aroma: Fresh, strongly cooling and minty with a dry, herbaceous edge

Solubility: Dispersible in water (oil-in-water emulsion); miscible with ethanol

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 %	30.09 %
Menthone		15 – 32 %	26.60 %
Isomenthone		5.0 – 13.0 %	9.39 %
Limonene		1.0 – 15.0 %	8.29 %
β-Pinene		max. 6.0 %	4.68 %
Isomenthol		1.0 – 6.0 %	4.10 %
α-Pinene		max. 5.0 %	3.75 %
Menthyl acetate		1.0 – 5.0 %	2.49 %
TOTAL		**min. 80 %**	**89.39 %**
Identified compounds (GC-FID area)	GC-FID, area normalisation (AF-LABGC003)	min. 90 %	98.50 %
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.

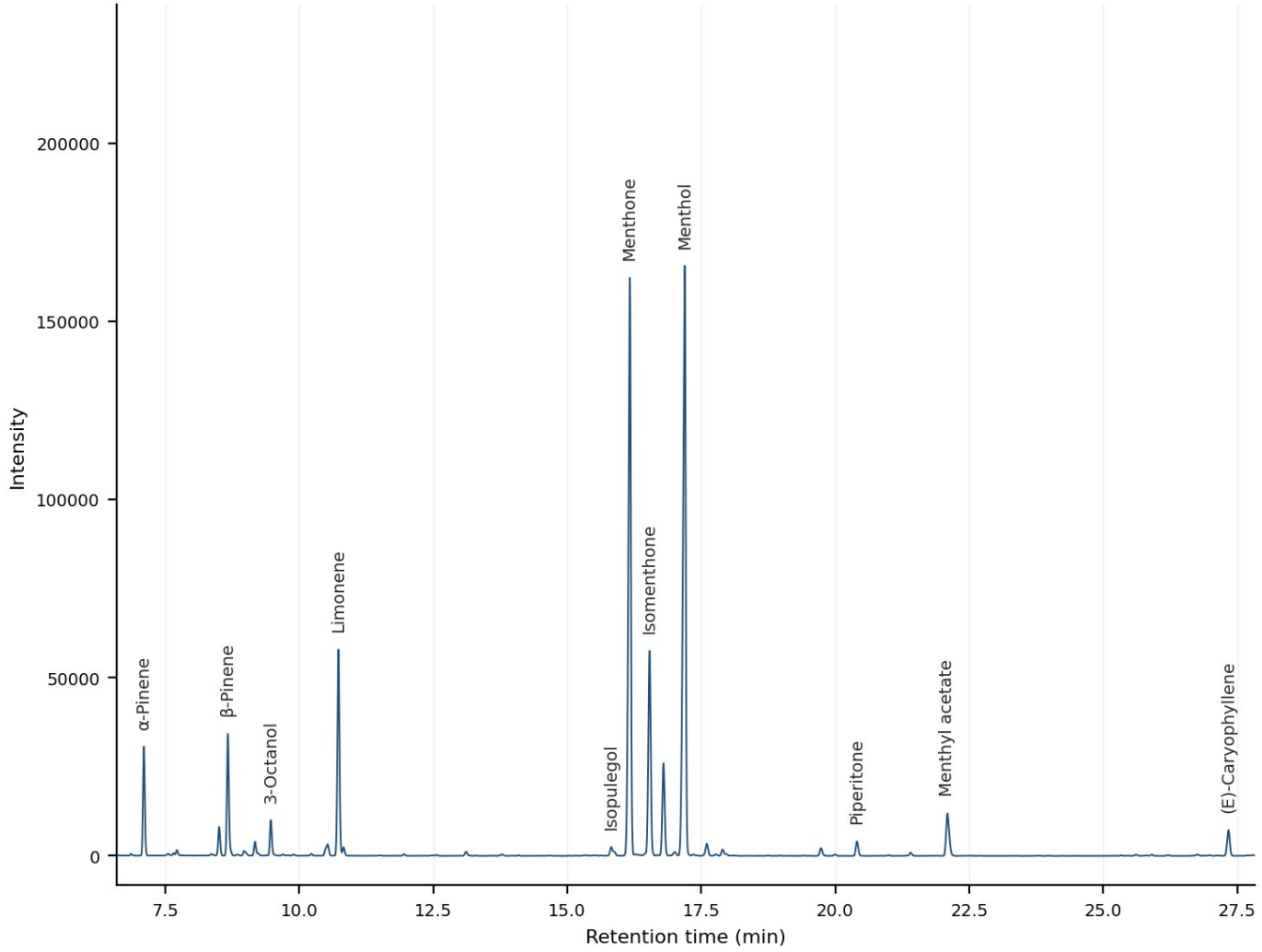
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Chromatogram



Additional Data

Storage conditions: Store refrigerated (2–8 °C); keep away from intense light and high heat. Shake well before use.

Carrier: Lecithin (E322(i)) and water. The Japanese mint essential oil is emulsified in this lecithin / water base.

Packaging: 1–5 kg/bottle, 10–25–50 kg/drum.

Shelf life: 12 months (unopened, refrigerated)

Dosage and use: A water-dispersible form of Japanese mint (Mentha arvensis) fragrance oil, emulsified in a lecithin / water base for direct incorporation into aqueous food and beverage systems without a pre-solubilization step — beverages, syrups, dairy drinks, confectionery and oral-care formulations. Menthol and menthone together define the profile; the menthol level governs the perceived cooling, while menthone and isomenthone supply the herbal-minty depth. Japanese mint reads drier and more directly cooling than English mint, with less sweetness. 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 (%)
α-Thujene	2867-05-2	6.864	0.06
α-Pinene	**80-56-8**	**7.101**	**3.75**
cis-3-Methylcyclohexanol	5454-79-5	7.555	0.09
Camphene	79-92-5	7.659	0.09
3-Methylcyclohexanone	591-24-2	7.717	0.21
Sabinene	3387-41-5	8.506	1.07
β-Pinene	**127-91-3**	**8.669**	**4.68**
Menthomenthene	500-00-5	8.973	0.28
trans-p-Menthane + myrcene	1678-82-6	9.175	0.62
3-Octanol	589-98-0	9.470	1.37
δ-2-Carene	554-61-0	10.227	0.07
p-Cymene	99-87-6	10.530	0.69
Limonene	**138-86-3**	**10.732**	**8.29**
1,8-Cineole	470-82-6	10.827	0.33
Terpinolene	586-62-9	13.114	0.21
Isopulegol	89-79-2	15.821	0.58
Menthone	**10458-14-7**	**16.169**	**26.60**
Isomenthone	**491-07-6**	**16.536**	**9.39**
Isomenthol	**3623-52-7**	**16.797**	**4.10**
Menthol	**1490-04-6**	**17.193**	**30.09**
Neoisomenthol	491-02-1	17.605	0.61
α-Terpineol	98-55-5	17.899	0.30
Pulegone	89-82-7	19.735	0.38
Piperitone	89-81-6	20.406	0.68
1-Decanol	112-30-1	21.408	0.15
Menthyl acetate	**16409-45-3**	**22.094**	**2.49**
(E)-Caryophyllene	13877-93-5	27.338	1.31

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