Batch Number:
20260904-JUCO2DST

ALTRAFLORA
NATURAL EXTRACTS

Manufactured:
04.09.2026

TECHNICAL DATA SHEET

Product Information

Product Name: Juniper berry essential oil, myrcene-standardised (origin: Turkey), PN AF-JUCO2DST

Scientific name: *Juniperus communis*

Parts utilized for extraction: Berries (cones), dried

Appearance: Colourless to pale yellow mobile liquid

Aroma: Characteristic fresh, resinous and woody, with a fuller green-herbaceous body than the non-standardised grade

Solubility: Insoluble in water; soluble in ethanol and fixed oils

Raw Material Specification

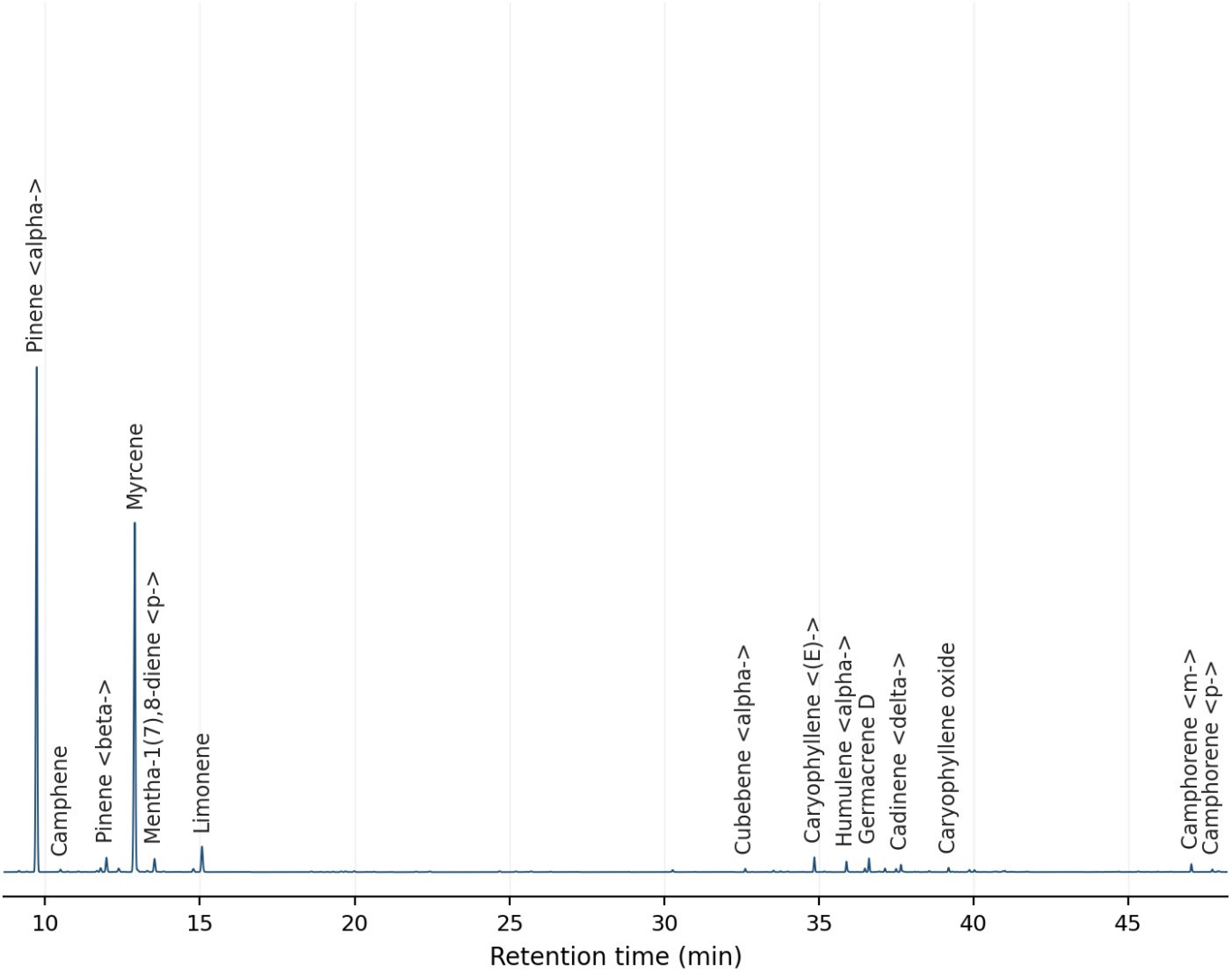
Analysis	Method	Result
Total ash for herb	Ph. Eur. (2.4.16)	<4%
Pesticides	GC/MS, LC-MS/MS	Complies with Ph. Eur. (2.8.13)
Aflatoxins (G1, G2, B1, B2)	AOAC 999.07	Complies with Ph. Eur. (2.8.18)
Ochratoxin A	AOAC 2004.10	Complies with Ph. Eur. (2.8.22)
Benzo(a)pyrene (PAH)	JOSS 2002 25, pp. 96–100	<10 ppb

Extract Specification

Analysis	Method	Specification	Result
Major components:			
Pinene <alpha->	GC-FID / GC-MS (in-house method)	40 - 55 %	46.90 %
Myrcene		> 35 %	36.32 %
Limonene		2 - 5 %	2.85 %
Pinene <beta->		> 1.0 %	1.46 %
Mentha-1(7),8-diene <p->		> 1.0 %	1.37 %
Caryophyllene <(E)->		> 1.0 %	1.20 %
TOTAL		**> 85 %**	**90.10 %**
Identified compounds (GC-FID area)	GC-FID / GC-MS (in-house method)	> 95 %	98.28 %
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.

Zafer Mahallesi, 1033/2 Sokak, No: 16/A, Merkezefendi/DENİZLİ || www.altraflora.com

Chromatogram



Additional Data

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

Carrier: None. This is a pure, undiluted essential oil.

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

Shelf life: 24 months

Dosage and use: This grade is standardised to a minimum myrcene content of 35 % and is intended for customers who formulate against a fixed myrcene specification — flavour houses building reproducible gin and bitters bases, and fragrance and cosmetic manufacturers requiring batch-to-batch consistency in the monoterpene profile. It is used at the same levels as the non-standardised grade: typically 0.1–1.0 % in cosmetic formulations and well below 0.05 % in flavour applications. Not recommended for use during pregnancy.

Zafer Mahallesi, 1033/2 Sokak, No: 16/A, Merkezefendi/DENİZLİ || www.altraflora.com

Batch Number:
20260904-JUCO2DST

ALTRAFLORA
NATURAL EXTRACTS

Manufactured:
04.09.2026

Full chromatographic profile (GC-FID)

Name	CAS	RT (min)	Content (%)
3-Methylapopinene	4889-83-2	9.153	0.12
Thujene <alpha->	2867-05-2	9.404	0.05
Pinene <alpha->	**80-56-8**	**9.726**	**46.90**
Camphene	79-92-5	10.495	0.27
Thuja-2,4(10)-diene	36262-09-6	10.728	0.06
Santolina triene	2153-66-4	11.076	0.07
Pinene <beta->	**127-91-3**	**11.978**	**1.46**
Fenchene <alpha->	471-84-1	12.375	0.44
Myrcene	**123-35-3**	**12.895**	**36.32**
cis-2,6-Dimethyl-2,6-octadiene	2492-22-0	13.301	0.13
Mentha-1(7),8-diene <p->	**499-97-8**	**13.534**	**1.37**
Carene <delta-3->	13466-78-9	13.820	0.08
Cymene <para->	99-87-6	14.788	0.35
Limonene	**138-86-3**	**15.068**	**2.85**
Isogeranial	55722-59-3	19.709	0.07
Terpinen-4-ol	562-74-3	24.685	0.11
Terpineol <alpha->	98-55-5	25.212	0.10
Bornyl acetate	76-49-3	30.278	0.20
Cubebene <alpha->	31141-66-9	32.625	0.28
Copaene <alpha->	138874-68-7	33.538	0.14
cis-Geranyl acetate	141-12-8	33.767	0.07
Caryophyllene <(E)->	**13877-93-5**	**34.858**	**1.20**
Copaene <beta->	147515-11-5	35.181	0.06
Humulene <alpha->	6753-98-6	35.896	0.89
Muurolene <gamma->	30021-74-0	36.488	0.29
Germacrene D	105453-16-5	36.624	1.12
Muurolene <gamma->	30021-74-0	36.962	0.06
Muurolene <alpha->	10208-80-7	37.141	0.29
Cadinene <gamma->	38357-83-4	37.499	0.25
Cadinene <delta->	16729-01-4	37.657	0.66
Valencene<13-hydroxy->	438536-20-0	38.569	0.11
Caryophyllene oxide	1139-30-6	39.196	0.36
Germacra-4(15),5,10(14)-trien-1-alpha-ol	81968-62-9	39.322	0.07
Humulene epoxide II	19888-34-7	39.869	0.21
6-Isopropenyl-4,8a-dimethyl-octahydronaphthalen-2-ol	-	40.032	0.18
Cadinol <tau->	5937-11-1	40.751	0.05
Copaen-4-alfa-ol <beta->	126060-41-1	40.950	0.11
Muurolene <14-hydroxy-alpha->	105661-29-8	41.734	0.06
Camphorene <m->	20016-73-3	47.042	0.61
Camphorene <p->	20016-72-2	47.719	0.23

Zafer Mahallesi, 1033/2 Sokak, No: 16/A, Merkezefendi/DENİZLİ || www.altraflora.com