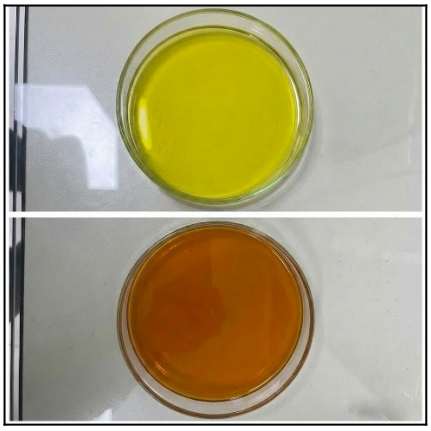
Batch Number:
20260102-ZNGO1TSF

ALTRAFLORA
NATURAL EXTRACTS

Manufacturing Date:
02.01.2026

TECHNICAL DATA SHEET

Product Information



Product Name: Ginger Root SFE extract (origin: Turkey), PN AF-ZNGO1TSF

Scientific name: *Zingiber officinale*

Parts utilized for extraction: Rhizomes (dry)

Appearance: Yellow-green transparent oil

Aroma: Slightly sweet and pungent with notes of pepper, citrus, and fruit

Solubility: Soluble in oil, insoluble in water

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
Zingiberene	GC-FID (in-house method)	>35 %	37.87 %
Zingerone	GC-FID (in-house method)	<3.0 %	2.30 %
Gingerols and Shogaols:			
6-Gingerol	HPLC-DAD (in-house method)	<15 %	10.68 %
8-Gingerol		<5 %	3.11 %
10-Gingerol		<15 %	12.19 %
6-Shogaol		<1 %	0.58 %
TOTAL		**<30 %**	**26.56 %**
Total volatile oil content (%)	Gravimetric method	>60 %	70.5 %
Loss on drying (%)	Ph. Eur. (2.8.17)	<5 %	3.2 %
DPPH radical scavenging IC_{50} value	UV-vis (in-house method)	<100 ppm	84.1 ppm
Total Phenolic Content (mg g^{-1} GAE)	UV-vis (in-house method)	>70 mg g^{-1}	128.2 mg g^{-1}
Arsenic (As) Lead (Pb)	ICP-OES (In-house method)	N.D. (< 3 ppm) N.D. (< 2 ppm)	N.D. N.D.
Total aerobic microbial count (cfu/g)	ISO 4833-1 ISO 21527-2	<10000 <100	Complies Complies

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

Batch Number:
20260102-ZNGO1TSF

ALTRAFLORA
NATURAL EXTRACTS

Manufacturing Date:
02.01.2026

Analysis	Method	Specification	Result
Yeast & mold (cfu/g)	ISO 16649-2	N.D. (in 1 g)	N.D.
Escherichia coli	ISO 6579	N.D. (in 25 g)	N.D.
Salmonella	ISO 13720	N.D. (in 1 g)	N.D.
Pseudomonus aeruginosus	ISO 6888-1	N.D. (in 1 g)	N.D.
Staphylococcus aureus			

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

Batch Number:
20260102-ZNGO1TSF

Manufacturing Date:
02.01.2026

Additional Data

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

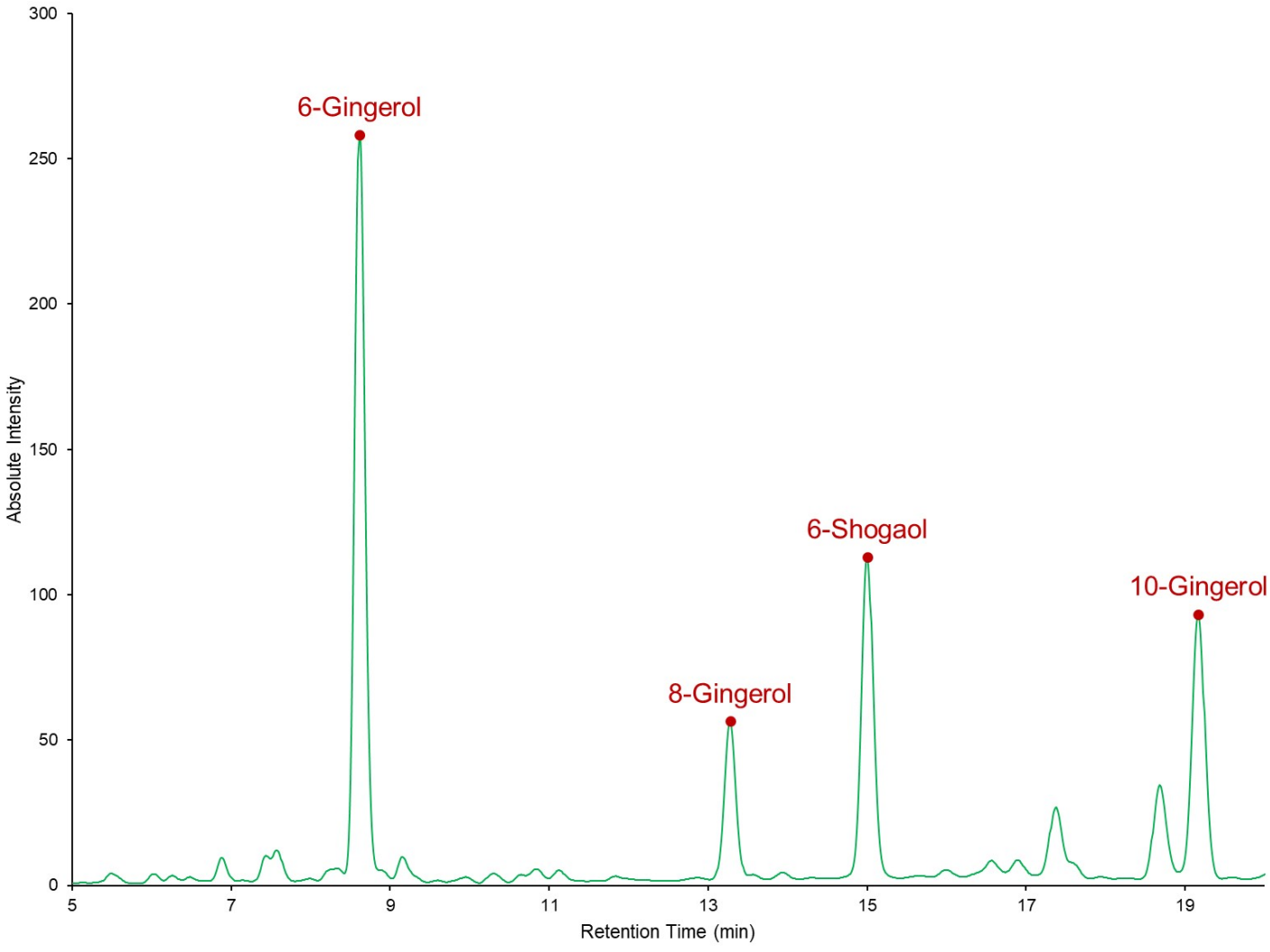
Carrier: None. This is a pure dried extract that is soluble in fixed oils and other lipophilic carriers.

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

Shelf life: 12 months

Dosage and use: This volatile essential oil component fraction of the total ginger rhizome extract is rich in sesquiterpenes (zingiberene, β-bisabolene, ar-curcumene) and monoterpenes (geranial, neral, camphene) that deliver the characteristic aroma of ginger. The food and beverage industry employs ginger oleoresin extensively in soft drinks, confectionery, baked goods, sauces, and savoury seasonings where consistent flavour delivery and ease of incorporation outweigh whole spice alternatives. Nutraceutical applications focus on digestive health, anti-nausea formulations, joint support, and anti-inflammatory supplements, with products often standardized to gingerol content. Cosmetic formulators incorporate it into warming massage oils, stimulating scalp treatments, and oral care products where its antimicrobial properties complement sensory appeal.

Chromatogram (HPLC-DAD)



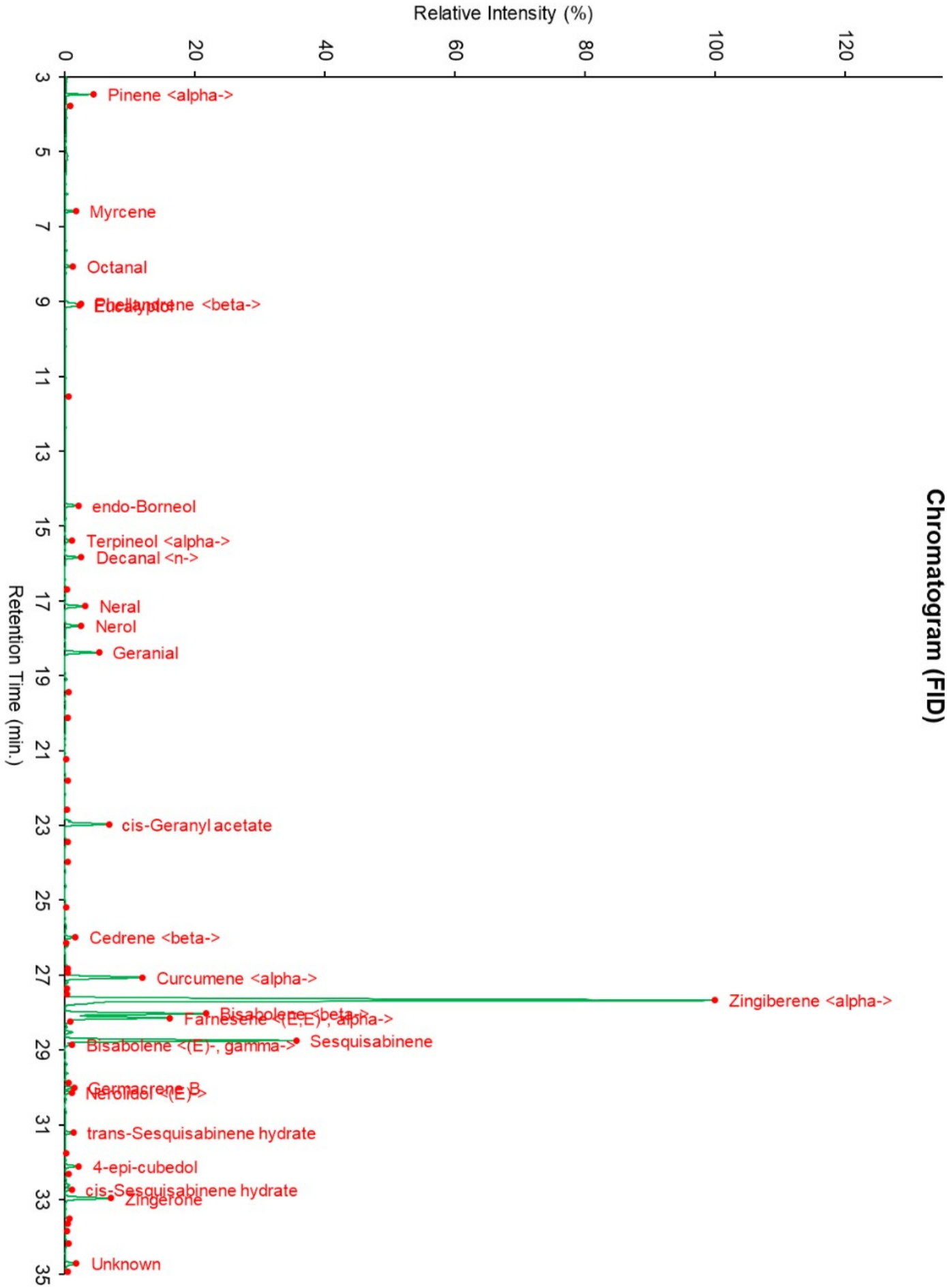
Zafer Mahallesi, 1033/2 Sokak, No: 16/A, Merkezefendi/DENİZLİ || www.altraflora.com

Batch Number:
20260102-ZNGO1TSF

ALTRAFLORA
NATURAL EXTRACTS

Manufacturing Date:
02.01.2026

Chromatogram (GC-FID)



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