Batch Number:
20260106-GLGL1TSF

ALTRAFLORA
NATURAL EXTRACTS

Manufacturing Date:
06.01.2026

TECHNICAL DATA SHEET

Product Information



Product Name: Licorice root SFE extract (origin: Turkey), PN AF-GLGL1TSF

Scientific name: *Glycyrrhiza glabra*

Parts utilized for extraction: Roots and rhizomes (dry)

Appearance: Dark amber viscous oil

Aroma: Characteristic

Solubility: Immiscible with water

Raw Material Specification

Analysis	Method	Result
Total ash for herb	Ph. Eur. (2.4.16)	<3%
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
Glabridin (CAS 59870-68-7)	HPLC-DAD (in-house method)	>2.0 %	2.17 %
Glycyrrhizic acid (CAS 1405-86-3)	HPLC-DAD (in-house method)	<0.2 %	N.D.
Loss on drying (%)	Ph. Eur. (2.8.17)	<5%	2.3 %
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.
Pseudomonus aeruginosus	ISO 13720	N.D. (in 1 g)	N.D.
Staphylococcus aureus	ISO 6888-1	N.D. (in 1 g)	N.D.

Additional Data

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

Carrier: None. This is a pure extract obtained using supercritical CO_2.

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

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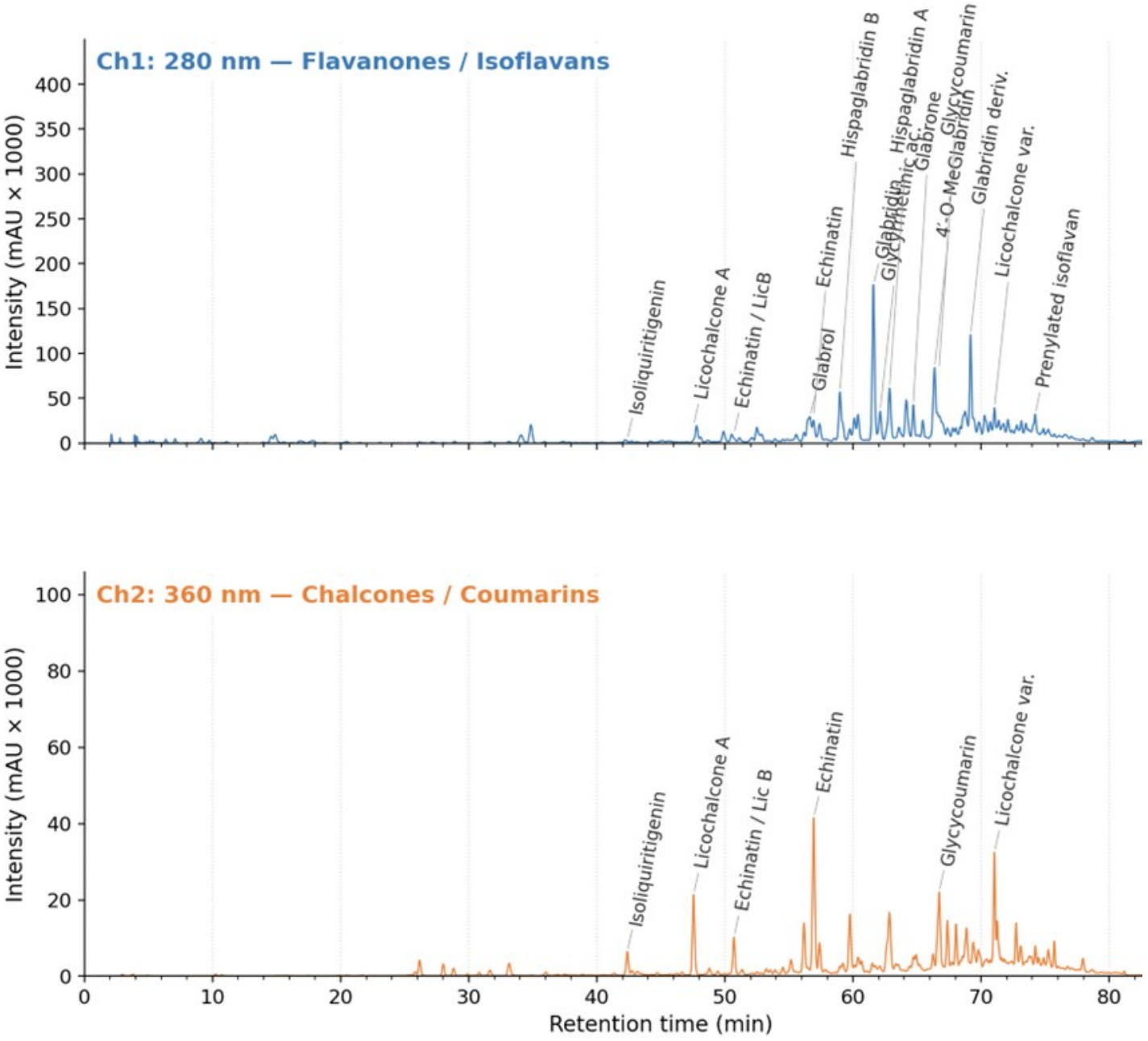
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Shelf life: 24 months

Dosage and use: The food and confectionery industry employs licorice extract as a natural sweetener and flavoring agent. Nutraceutical applications focus on digestive health and hepatoprotection. The cosmetic industry values glabridin for skin-brightening, while antioxidant and anti-inflammatory properties support anti-aging and soothing skincare. Oral care products leverage antimicrobial activity against cariogenic bacteria.

HPLC-DAD chromatograms



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