Batch Number:
20250605-ANOX1TSF

ALTRAFLORA
NATURAL EXTRACTS

Manufacturing Date:
05.06.2025

TECHNICAL DATA SHEET

Product Information



Product Name: Rosemary SFE extract (origin: Turkey), PN AF-ANOX1TSF

Scientific name: *Rosmarinus officinalis*

Parts utilized for extraction: Leaves (dry)

Appearance: Dark-brown, viscous solution

Aroma: Absent

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
Carnosic acid Carnosol	HPLC (in-house method)	>10% <1%	10.57% 0.84%
Volatiles (borneol, bornyl acetate, camphor, 1,8-cineole, verbenone)	GC-MS and GC-FID (in-house method)	<0.5% (combined)	0.3%
DPPH radical scavenging IC_{50} value	UV-vis (in-house method)	<50 ppm	28 ppm
Total Phenolic Content (mg g^{-1} GAE)	UV-vis (in-house method)	>80 mg g^{-1}	143 mg g^{-1}
Loss on drying (%)	Ph. Eur. (2.8.17)	<5%	3.4%
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) Yeast & mold (cfu/g) *Escherichia coli* *Salmonella* *Pseudomonus aeruginosus* *Staphylococcus aureus*	ISO 4833-1 ISO 21527-2 ISO 16649-2 ISO 6579 ISO 13720 ISO 6888-1	<10000 <100 N.D. (in 1 g) N.D. (in 25 g) N.D. (in 1 g) N.D. (in 1 g)	Complies Complies N.D. N.D. N.D. N.D.

Additional Data

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

Carrier: Deodorized sunflower oil. This product does not contain additives.
Rosemary SFE extract (*Rosmarinus officinalis*), product number AF-ANOX1TSF

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Packaging: 1–5 kg/bottle, 10–25–50 kg/drum; **Shelf life:** 24 months

Dosage and use: Add **0.05–0.5% by weight** to impart an antioxidant effect based on food category. Some representative categories are listed in the table below. The product may be used to stabilise most oil-rich foods such as dairy products, meat products (for general prevention of lipid oxidation), cereals, and natural pigments.

Description	Maximum Use level (%)	Corresponding CA dose (mg/kg)*
Colouring	1.0 (10 g/kg)	1000
Flavouring	1.0 (10 g/kg)	1000
Edible oils (free of water)	0.05 (0.5 g/kg)	50
Flour products (incl. noodles and pasta)	0.05 (0.5 g/kg)	50
Bread and bakery products	0.04 (0.4 g/kg)	40
Raw meat and poultry	0.04 (0.4 g/kg)	40
Fermented meat products	0.04 (0.4 g/kg)	40
Sausage (raw)	0.04 (0.4 g/kg)	40
Sausage (dried)	0.10 (1 g/kg)	100
Sauces, dressings	0.10 (1 g/kg)	100
Seasoning and condiments	0.20 (2 g/kg)	200
Processed eggs and egg products	0.20 (2 g/kg)	200
Mustard	0.10 (1 g/kg)	100
Soups	0.05 (0.5 g/kg)	50
Chewing gum	0.20 (2 g/kg)	200
Dehydrated milk	0.20 (2 g/kg)	200
Dehydrated milk (for ice cream only)	0.03 (0.3 g/kg)	30
Food supplements	0.40 (4 g/kg)	400
Processed potato products	0.20 (2 g/kg)	200
Fruit and vegetable preparations (excluding compote)	0.2 (2 g/kg)	200

*CA = Carnosic acid; CRN = carnosol. Based on a guaranteed **10% content of CA** in extract.

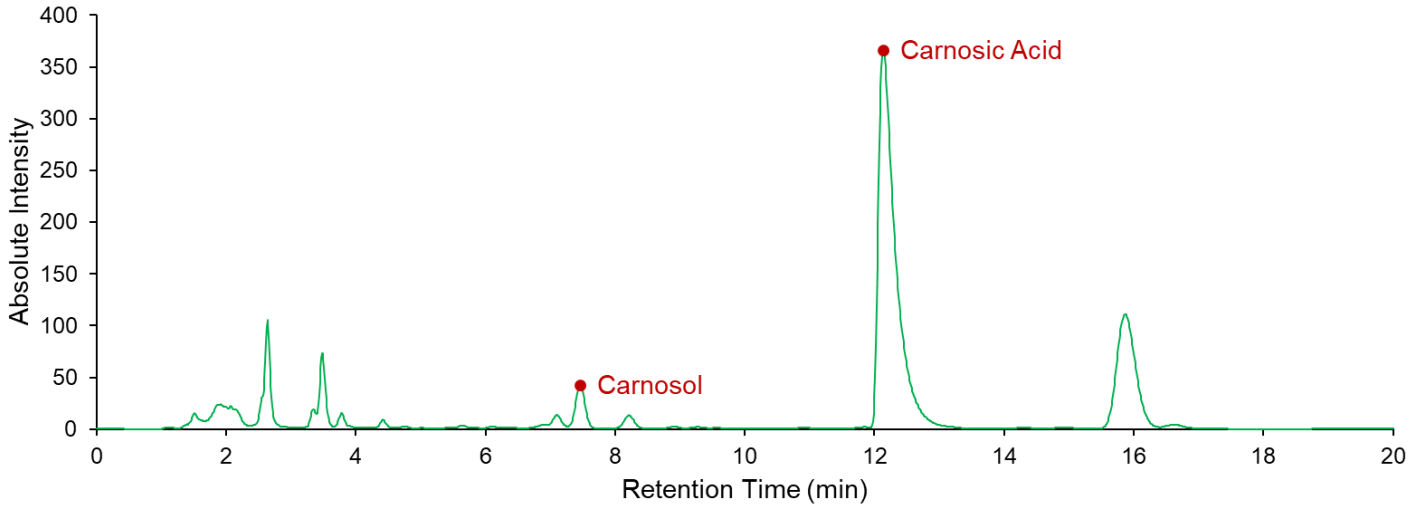
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Chromatogram (HPLC-DAD)



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