

Nature's Gift®

Balancing Body, Mind and Spirit
with Pure Essential Oils Since 1995

316 Old Hickory Blvd East, Madison, TN 37115
Tel (615)612-4270 fax (615)860-9171
sold@naturesgift.com

www.naturesgift.com

Certificate of Analysis

Rosemary Antioxidant (organic)

Batch # GE-59174

lab no. 31049
production: February 2021 retest: February 2026
raw material: *Rosmarinus officinalis* - Leaves, dried, from organic farming
country of origin of raw material: Morocco, Greece
country of origin of product: Germany
D/E - ratio: 2,8 - 4,0 kg raw material yield 1 kg product.

Product contains: about 60 % Sunflower oil (organic)

Sensory Check

feature	reference	result
Appearance:	Dark brown and at room temperature viscous liquid product	meets
Odour:	weak odour	meets

Analytical Check

feature	method	limits	value unit
Rosmanol	21.028.06, HPLC	n.s.	0,02 %
7-Methyl-Rosmanol	21.028.06, HPLC	n.s.	0,07 %
Carnosol	21.028.06, HPLC	n.s.	0,52 %
Carnosic Acid	21.028.06, HPLC	> 6	8,1 %
12-O-Methyl-Carnosic Acid	21.028.06, HPLC	n.s.	1,0 %
Sum of phenolic diterpenes (calculated as Carnosic Acid)	21.028.06, HPLC	n.s.	9,7 %
Reference AO Compounds Carnosol + Carnosic Acid (calc. as Carnosic Acid)	21.028.06, HPLC	7 - 10	8,6 %
Betulinic Acid	21.028.06, HPLC	n.s.	1,3 %
Ursolic Acid	21.028.06, HPLC	n.s.	0,32 %
Oleanolic Acid	21.028.06, HPLC	n.s.	0,06 %
Total volatile flavour compounds	21.135.02, GCMS, quantitative	< 2	0,76 % (g/ 100g)
Reference Volatiles Borneol, Bornyl acetate, Camphor, 1,8-Cineol, Verbenone	21.135.02, GCMS, quantitative	n.s.	0,41 %
Content of water	21.220.01, Karl Fischer method	< 1	0,29 %
Residual content of ethanol	21.025.05, GCFID	< 0,5	0,18 %
Methyl Eugenol	GCMS	< 0,0025	meets %

n.s. = not specified

n.d. = not detected

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Certificate of Analysis

Rosemary Antioxidant (organic)

Batch # GE-59173

Analytical Check

feature	method	limits	value unit
Antioxidative activity compared with 500 ppm alpha tocopherol (Rancimat test in lard at 120°C and 15 Liter/ hour air flow)			
Dosage Rosemary Antioxidant Relation to 500 ppm alpha tocopherol			
200 ppm	same activity		
500 ppm	1,3 times stronger activity		

The product meets specifications no. 027.010_08_AS and 66.165.12;
date of analysis: 2021.02.17

Digitally signed by Anja Cawellius
Reason: Quality Control
Date: 2021.02.17 14:57:53 +01'

This computerized CoA has digital signature validated by Nature's Gift.

The data in this report of analysis have been determined carefully and to the best of our knowledge. Depending on transport and storage conditions the indicated data can be subject to certain changes which are outside of our influence. Hence the report has not the meaning of a guaranty in the legal sense and does not dispense the customer from making his own quality control before using the product.