



## Certificate of Analysis

### Rosemary Antioxidant Extract (organic)

Batch #GE-58933

lab no.:	26737
production: March 2019	retest: March 2024
raw material:	<i>Rosmarinus officinalis</i> - Leaves, dried, from organic farming
country of origin of raw material:	Spain
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.	0,021 %
7-Methyl-Rosmanol	21.028.06, HPLC	n.s.	0,052 %
Carnosol	21.028.06, HPLC	n.s.	0,64 %
Carnosic Acid	21.028.06, HPLC	> 6	7,9 %
12-O-Methyl-Carnosic Acid	21.028.06, HPLC	n.s.	0,59 %
Sum of phenolic diterpenes (calculated as Carnosic Acid)	21.028.06, HPLC	n.s.	9,2 %
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.	0,66 %
Ursolic Acid	21.028.06, HPLC	n.s.	0,06 %
Oleanolic Acid	21.028.06, HPLC	n.s.	0,03 %
Total volatile flavour compounds	21.135.02, GCMS, quantitative	< 2	0,58 % (g/ 100g)
Total content of Borneol, Bornyl acetate, Camphor, 1,8-Cineol, Verbenone	21.135.02, GCMS, quantitative	n.s.	0,28 %
Content of water	21.220.01, Karl Fischer method	< 1	0,47 %
Residual content of ethanol	21.025.04, GCFID	< 0,5	0,05 %

n.s. = not specified

n.d. = not detected



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#### 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		

Storage conditions: Store in a cool, dry place!

Digitally signed by Anja Cawelius  
Reason: Quality Control  
Date: 2019.03.05 16:10:12 +01'00'

The product meets specifications no. 16.166.08/66.165.11; date of analysis: 2019.03.05

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

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.