



CERTIFICATE OF ANALYSIS (COA)

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Rosemary Essential Oil

PRODUCT INFORMATION

Product Name: Rosemary Essential Oil
Common Name: Rosemary Antioxidant CO₂ – Organic
Botanical Name: *Salvia rosmarinus*

Country of Origin: Morocco
Cultivation Method: Certified Organic (USDA, NOP)
Product Type: CO₂ Total Extract

Extraction Method: Supercritical Fluid Extraction
Plant Part: Leaves
Recommended Use: Antioxidant for Body/Skin Care
SKU: 1105

BATCH INFORMATION

Lot Number: 35
Manufacturing Date: January 2024
Best Before Date: January 2029

PHYSICAL & ANALYTICAL SPECIFICATIONS

Parameter	Specification	Result
Specific Gravity @ 20 °C	N/A	N/A
Refractive Index @ 20 °C	N/A	1.4828
Optical Rotation @ 20 °C	N/A	N/A
Physical Appearance	Viscous Liquid	Conforms
Colour	Dark Brown	Conforms



Parameter	Specification	Result
Odour	Mild scent of rosemary	Conforms
Solubility	Soluble in fixed oils; insoluble in water and alcohol	—

SPECIAL USE INSTRUCTIONS

Dilute before use. May require gentle heating to liquefy.

PRIMARY CONSTITUENTS

Phenolic Diterpenes

The supplied COA states that the product is standardised with 60–65% Organic Sunflower Oil.

COMPONENT ANALYSIS

Component	Specification / Range	Result
Rosmanol	N/A	0.08%
7-Methyl-Rosmanol	N/A	0.04%
Carnosol	N/A	0.36%
Carnosic Acid	>6%	7.5%
12-O-Methyl-Carnosic Acid	N/A	0.30%
Sum of Phenolic Diterpenes (calculated as Carnosic Acid)	N/A	8.3%
Reference AO Compounds: Carnosol + Carnosic Acid (calculated as Carnosic Acid)	7–10%	7.9%
Betulinic Acid	N/A	0.24%
Ursolic Acid	N/A	0.12%
Oleanolic Acid	N/A	0.06%
Total Volatile Flavor Compounds	<2%	0.42%
Total Content of Borneol, Bornyl Acetate, Camphor, 1,8-Cineole and Verbenone	N/A	0.10%
Content of Water	<1%	0.22%
Residual Content of Ethanol	<0.5%	0.33%
Methyl Eugenol	<0.0025%	N/A

The analytical table on page 1 of the supplied COA reports these component concentrations and specification ranges.



ANTIOXIDANT ACTIVE CONTENT

The principal antioxidant diterpenes reported in this batch include:

Carnosic Acid: 7.5%

Carnosol: 0.36%

Rosmanol: 0.08%

7-Methyl-Rosmanol: 0.04%

12-O-Methyl-Carnosic Acid: 0.30%

Sum of Phenolic Diterpenes: 8.3%

Reference AO Compounds – Carnosol + Carnosic Acid:

Specification: 7–10%

Result: 7.9%

PURITY & COMPOSITION STATEMENT

The source documentation describes the CO₂ Total Extract as a 100% pure and natural product and states that it does not contain artificial ingredients or adulteration to the best of the manufacturer's knowledge.

For clarity, the same COA also states that the commercial product is standardised with 60–65% Organic Sunflower Oil. Therefore, this standardisation information forms part of the declared composition of the supplied material and has been retained in this Aromology COA.

QUALITY ASSESSMENT

Physical Appearance: Conforms

Colour: Conforms

Odour: Conforms

Source Quality Comment: Odour quality is excellent.

Based on the reported analytical results, the specified parameters for Carnosic Acid, Reference AO Compounds, Total Volatile Flavor Compounds, Water Content and Residual Ethanol are within their respective stated specification ranges.

STORAGE & HANDLING

Store in tightly closed original packaging in suitable cool conditions, protected from excessive heat and light.

The supplied COA specifically advises:

Dilute before use. May require gentle heating to liquefy.



QUALITY STATEMENT

This Certificate of Analysis has been prepared in AROMOLOGY format using the supplied batch-specific Certificate of Analysis for Rosemary Essential Oil – Organic, Lot 35.

The analytical results, specifications and compositional information have been retained from the supplied documentation and have not been independently tested or altered by Aromology.

Source Document Created: 09 January 2019

Source Document Updated: 10 March 2025

Authorised by:

Fozia Khot
Director