

**CERTIFICATE OF ANALYSIS
COA**

Mobile Phone:	(+355692430707)
Website:	www.esencial.al
Email:	contact@esencial.al

Product Name:	Rosa canina CO ₂ Total Extract
Product Use:	Raw materials for industry
Scientific Name:	<i>Rosa canina</i>
Country of origin:	Albania
Company Name:	Esencial®
INCI Name:	<i>Rosa canina</i> Extract

Lot #	TOT210222
Batch #	210229-C
Manufacturing Date-	02/2021
Best Before Date-	02/2030

Part Used:	Rose Hip
Extraction Method:	SCFE CO ₂
Quality:	100% Pure and Natural

**CERTIFICATE OF ANALYSIS
COA**

PROPERTIES	SPECIFICATIONS	RESULTS	METHOD
Appearance:	Dark Redish	CONFORMS	Visual
Physical state	Viscous liquid	CONFORMS	Organoleptic
Odor:	Natural and fresh fragrance	CONFORMS	Organoleptic
Relative Density (g/ml):	-	0.9 at 20°C	ISO 279:1998 (E)
Solubility:	Soluble in lipophilic fluids such as essential oils and vegetable oils.	CONFORMS	
Flash Point:	-	> 104 °C	
Boiling point:	-	80 °C	ISO/TR 11018 (E)
Melting point :	-	65 °C	
Loss of drying:	≤5.0%	0.15%	ISO 212:2007(E)
Residual Solvents:	no	CONFORMS	GC-FID
Total ashes:	-	1.6%	WHO
Shelf life:		9 years	
Storage:	Keep in tightly closed container in a cool and dry place, protected from sunlight.		

CERTIFICATE OF ANALYSIS
COA

COMPONENTS Range %

Identification	Conforms to reference standard	CONFORMS	GC-FID
-----------------------	--------------------------------	----------	--------

	<u>Compound</u>	<u>%</u>
1	(Z)-3-hexenol	0.1
2	a-pinene	1.7
3	b-pinene	0.2
4	1.8-cineol	1
5	Linalool	1.8
6	2-phenethyl alcohol	12.6
7	Eugenol	4.7
8	Tetradecane	5.9
9	b-caryophyllene	0.4
10	Caryophyllene oxide	0.3
11	Hexadecane	9.7
12	1-heptadecene	1.1
13	Heptadecane	1.6
14	Octadecane	5.3
15	1-nonadecene	0.8
16	Nonadecane	20.8
17	n-eicosane	6.9
18	n-heneicosane	6.9
19	Docosane	8.6
20	Tricosane	2.6
21	Tetracosane	1.2
22	Pentacosane	1.7
23	Hexacosane	2.4
24	Heptacosane	1.7

**CERTIFICATE OF ANALYSIS
COA**

BaP	Limit 0.18 µg/kg	NOT DETECTED	Elissa
TOTAL PAHs (BaP, BaA, BbF,CHR)	Limit 0.2 µg/kg	NOT DETECTED	Elissa
PESTICIDES	Limit 0.01 mg/kg	NOT DETECTED	Elissa
AFLATOXINS B1	Limit 2 µg/kg	CONFORMS	Elissa
TOTAL AFLATOXIN (B1, B2, G1, G2)	Limit 4 µg/kg	CONFORMS	Elissa

Secondary metabolites	Results	Method
<i>Flavonoids</i>		
Quercetina	2 mg/gr extract	HPLC
<i>Polyphenols</i>	<i>560 mg/gr extract</i>	<i>HPLC</i>
<i>Fatty acids</i>		
Linoleic acid	(52.45%)	GC-Fid
Linolenic acid	(20.55%)	GC-Fid
Oleic acid	(19.81%)	GC-Fid
Palmitic acid	(3.64%)	GC-Fid
Stearic acid	(2.34%)	GC-Fid
Arachidic acid	(0.95%)	GC -Fid

HEAVY METAL TESTS SPECIFICATIONS RESULTS METHOD

Lead (Pb)	≤5.0 ppm	0.28 ppm	ISO 11212 Spectrofotometry
Cadmium (Cd)	≤1.0 ppm	0.12 ppm	
Arsenic (As)	≤1.5 ppm	0.10 ppm	
Mercury (Hg)	≤0.1 ppm	<0.04 ppm	

**CERTIFICATE OF ANALYSIS
COA**

MICROBIAL ANALYSIS	SPECIFICATIONS	RESULTS	METHOD
---------------------------	-----------------------	----------------	---------------

Bacterial Count			
<i>Staphylococcus aureus</i>	< 1000 CFU/g	CONFORMS	ISO 21149
<i>Escherichia coli</i>	< 1000 CFU/g	CONFORMS	
<i>Pseudomonas aeruginosae</i>	< 1000 CFU/g	CONFORMS	
Yeast and Mould			
<i>Candida albicans</i>	< 100 CFU/g	CONFORMS	ISO 16212
<i>Aspergillus fumigatus</i>	< 100 CFU/g	CONFORMS	

COMMENTS

This CO₂ total extract is a 100% pure and natural product. It does not contain any artificial ingredients or adulteration of any kind to the best of our knowledge. The analysis and statements herein constitute the most complete information available to Esencial®. This product is guaranteed by to Esencial® be of excellent quality.

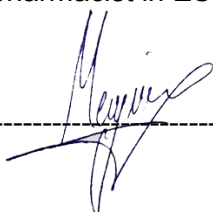
DISCLAIMER: Please refer to all relevant technical information specific to the product before use. The information contained in this document is obtained from current and reliable sources Esencial® provides the information contained herein, but makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose.

Prepared By: Ms. Megi Pashollari

Revised by: Mrs. Lindita Vrushi

Production pharmacist in ESENCIAL®

Biochemist in ESENCIAL®

Signature 

Signature 