

**CERTIFICATE OF ANALYSIS
COA**

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

Product Name:	CO ₂ Total Extract
Product Use:	Raw materials for industry
Scientific Name:	<i>Salvia officinalis</i>
Country of origin:	Albania
Company Name:	Esencial®
CAS Number:	84082-79-1
INCI Name:	<i>Salvia officinalis</i> CO ₂ Total Extract

Lot #	TOT191010
Batch #	191008-C
Manufacturing Date-	08.10.2019
Best Before Date-	08.10.2028

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

**CERTIFICATE OF ANALYSIS
COA**

PROPERTIES	SPECIFICATIONS	RESULTS	METHOD
Appearance:	Dark brown	CONFORMS	Visual
Physical state	Solid	CONFORMS	Organoleptic
Odor:	Natural and fresh fragrance	CONFORMS	Organoleptic
Relative Density (g/ml):	-	1.12 at 20°C	ISO 279:1998 (E)
Solubility:	Soluble in lipophilic fluids such as essential oils and vegetable oils.	CONFORMS	
Avid Value:	-	80.4	ISO 124:1999 (E)
Flash Point:	-	> 118 °C	
Boiling point:	-	99 °C	ISO/TR 11018 (E)
Melting point :	-	60 °C	
Loss of drying:	≤5.0%	4.16 %	ISO 212:2007(E)
Residual Solvents:	no	CONFORMS	GC-FID
Total ashes:	-	2.6%	WHO
Shelf life:		9 years	
Storage:	Keep in a tightly closed container in a cool and dry place, protected from sunlight.		

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	

CERTIFICATE OF ANALYSIS
COA

COMPONENTS Range %

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

	Compound	%
1	β - Pinene	1.59
2	β - thujone	6.5
3	Camphene	5.46
4	Linalol	2.37
5	Camphor	19.18
6	Limonene	2.82
7	Brnyl acetat	2.66
8	Linalyl acetat	2
9	α - pinene	3.09
10	Humulene	7.58
11	1.8 cineole	8.13
12	Ocinene	1.44
13	Terpinene	2.67
14	Trans ocimene	1.38
15	Para cymene	1.89
16	α - thujone	22.28
17	Terpinolene	2.7
18	β - caryophyllene	2.69
19	Caryophyllene oxide	2.35
20	Viridflorol	1.22

**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 metabolic	Results	Method
<i>Phenoloc acid</i>	<i>1850 mg/gr extract</i>	<i>HPLC</i>
Rosmarinic acid	1458 mg/gr extract	HPLC
Caffeic acid	13 mg/gr extract	HPLC
<i>Flavonoid</i>	<i>315 mg/gr extract</i>	<i>HPLC</i>
Apigenin	1,2 mg/gr extract	HPLC
Luteolin	14.5 mg/gr extract	HPLC
Myricetina	41 mg/gr extract	HPLC
Quercetin	4,5 mg/gr extract	HPLC
Rutin	175 mg/gr extract	HPLC

**CERTIFICATE OF ANALYSIS
COA**

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, prior to 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-----

