

**CERTIFICATE OF ANALYSIS  
COA**

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

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<b>Lot #</b>	TOT 191013/16
<b>Batch #</b>	190919-C
<b>Manufacturing Date-</b>	19.09.2019
<b>Best Before Date-</b>	19.09.2028

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<b>Part Used:</b>	Flower
<b>Extraction Method:</b>	SCFE CO <sub>2</sub>
<b>Quality:</b>	100% Pure and Natural

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<b>PROPERTIES</b>	<b>SPECIFICATIONS</b>	<b>RESULTS</b>	<b>METHOD</b>
Appearance:	Dark brown	CONFORMS	Visual
Physical state	Solid	CONFORMS	Organoleptic
Odor:	Natural and fresh fragrance	CONFORMS	Organoleptic
Relative Density (g/ml):	-	0.98-1.02 at 20°C	ISO 279:1998 (E)
Solubility:	Soluble in lipophilic fluids such as essential oils and vegetable oils.	CONFORMS	
Avid Value:	-	63.99	ISO 124:1999 (E)
Flash Point:	-	> 120 °C	
Boiling point:	-	102 °C	ISO/TR 11018 (E)
Melting point :	-	55 °C	
Loss of drying:	≤5.0%	0.9 %	ISO 212:2007(E)
Residual Solvents:	no	CONFORMS	GC-FID
Total ashes:	-	1.6%	WHO
Shelf life:		9 years	
Storage:	Keep in a tightly closed container in a cool and dry place, protected from sunlight.		

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

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**COMPONENTS Range %**

<b>Identification</b>	Conforms to reference standard	CONFORMS	GC-FID
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	<b>Compound</b>	<b>%</b>
1	Camphenol	23.68
2	Ethyl tetradecanoate	22.12
3	Ethyl dodecanoate	12.05
4	Camphor	10.14
5	Caryophyllene oxide	13.05
6	Tricosane	3.84
7	b-Eugenol	3.87
8	Limonene	6.73
9	Pentacosane	2.61
10	Alfa- farensene	1.07
11	Ethyl hexadecanoate	0.84

Secondary metabolites	Results	Method
<i>Total phenolics</i>	<i>71 mg/gr extract</i>	<i>HPLC</i>
<i>Flaconoides</i>	<i>0,05 mg/gr extract</i>	<i>HPLC</i>
<i>Myristic acid etil ester</i>	<i>22,12 %</i>	<i>GC-FID</i>
<i>Lauric acid etil ester</i>	<i>12,05 %</i>	<i>GC-FID</i>

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<b>MICROBIAL ANALYSIS</b>	<b>SPECIFICATIONS</b>	<b>RESULTS</b>	<b>METHOD</b>
<b>Bacterial Count</b>			
<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	
<b>Yeast and Mould</b>			
<i>Candida albicans</i>	< 100 CFU/g	CONFORMS	ISO 16212
<i>Aspergillus fumigatus</i>	< 100 CFU/g	CONFORMS	

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**COMMENTS**

This CO<sub>2</sub> 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.

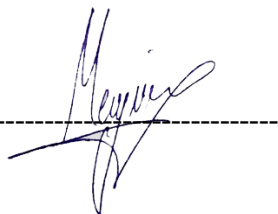
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Revised by: Mrs. Lindita Vrushi

Production pharmacist in ESENCIAL®

Biochemist in ESENCIAL®

Signature



Signature

