



CERTIFICATE OF ANALYSIS  
COA

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**Product Name:** Satureja montana CO<sub>2</sub> Total Extract

**Product Use:** Raw materials for industry

**Scientific Name:** *Satureja montana*

**Country of origin:** Albania

**Company Name:** Esencial®

**INCI Name:** *Satureja montana* Extract

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**Lot #** TOT191008

**Batch #** 191004-C

**Manufacturing Date-** 10/2019

**Best Before Date-** 10/2028

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**Part Used:** Winter savory

**Extraction Method:** SCFE CO<sub>2</sub>

**Quality:** 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):	-	0.9 at 20°C	ISO 279:1998 (E)
Solubility:	Soluble in lipophilic fluids such as essential oils and vegetable oils.	CONFORMS	
Avid Value:	-	81.85	ISO 124:1999 (E)
Flash Point:	-	> 104 °C	
Boiling point:	-	80 °C	ISO/TR 11018 (E)
Melting point :	-	55 °C	
Loss of drying:	≤5.0%	0.4%	ISO 212:2007(E)
Residual Solvents:	no	CONFORMS	GC-FID
Total ashes:	-	4.0%	WHO
Shelf life:		9 years	
Storage:	Keep in tightly closed container in a cool and dry place, protected from sunlight. These are best stored in the refrigerator 2 - 10°C.		



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	<b><u>Compound</u></b>	<b><u>%</u></b>
1	$\beta$ -Myrcene	7.81
2	p-Cymene	5.86
3	$\beta$ -Phellandrene	6.09
4	Cis- $\beta$ -ocimene	2.38
5	Linalool	1.63
6	Camphor	6.86
7	Borneol	9.64
8	Thymol	3.86
9	Carvacrol	4.35
10	Trans- $\beta$ -caryophyllene	10.08
11	Germacrene D	10.44
12	Spathulenol	3.47
13	Caryophyllene oxide	5.29
14	Eucalyptol	10.54
15	$\gamma$ -Terpinene	11.7

**COMPONENTS Range %**

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<b>Identification</b>	Conforms to reference standard	CONFORMS	GC-FID
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<u>HEAVY METAL TESTS</u>	<u>SPECIFICATIONS</u>	<u>RESULTS</u>	<u>METHOD</u>
Lead (Pb)	≤5.0 ppm	0.3 ppm	ISO 11212 Spectrofotometry
Cadmium (Cd)	≤1.0 ppm	0.05 ppm	
Arsenic (As)	≤1.5 ppm	0.05 ppm	
Mercury (Hg)	≤0.1 ppm	<0.04 ppm	

<u>MICROBIAL ANALYSIS</u>	<u>SPECIFICATIONS</u>	<u>RESULTS</u>	<u>METHOD</u>
Bacterial Count			
<i>Staphylococcus aureus</i>	< 1000 CFU/g	CONFORMS	



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

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

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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



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comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose.

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