

**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>Cistus incanus</i>
<b>Country of origin:</b>	Albania
<b>Company Name:</b>	Esencial <sup>®</sup>
<b>INCI Name:</b>	<i>Cistus incanus</i> CO <sub>2</sub> Total Extract

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<b>Lot #</b>	TOT191020-1
<b>Batch #</b>	191222-C
<b>Manufacturing Date-</b>	02.10.2019
<b>Best Before Date-</b>	02.10.2028

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<b>Part Used:</b>	Leaf and 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):	-	1.19 at 20°C	ISO 279:1998 (E)
Solubility:	Soluble in lipophilic fluids such as essential oils and vegetable oils.	CONFORMS	
Avid Value:	-	92.04	ISO 124:1999 (E)
Flash Point:	-	> 130 °C	
Boiling point:	-	107 °C	ISO/TR 11018 (E)
Melting point :	-	67 °C	
Loss of drying:	≤5.0%	0.33%	ISO 212:2007(E)
Residual Solvents:	no	CONFORMS	GC-FID
Total ashes:	-	3.0%	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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**COMPONENTS Range %**

<b>Identification</b>	Conforms to reference standard	CONFORMS	GC-FID
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	<b><u>Volatile Compounds</u></b>	<b><u>%</u></b>
1	a-Thujene	1.04
2	Sabinene	0.99
3	a-Pinene	21.56
4	Camphene	8.08
5	Myrcene	0.76
6	Cymene	1.97
7	Limonene	2.20
8	1.8 - Cineole	3.50
9	Terpinene	3.37
10	Camphor	19.07
11	Borneol	7.36
12	Menthol	1.64
13	Nerol	4.21
14	Neral	2.26
15	Terpineol	13.05
16	Bornyl	1.18
17	Linalyl acetate	5.26
18	Thynol	2.49

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Secondare metabolites	Rezults	Method
<b><i>Flavanols</i></b>	650 mg/gr ectrat	HPLC
Quercetin	95 mg/gr ectrat	HPLC
Kaempferol	54 mg/gr ectrat	HPLC
Myricetin	68 mg/gr ectrat	HPLC

**MICROBIAL ANALYSIS                      SPECIFICATIONS                      RESULTS                      METHOD**

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

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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

**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.

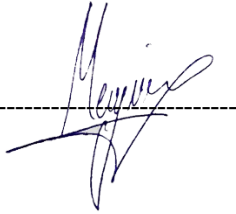
Prepared By: Ms. Megi Pashollari

Revised by: Mrs. Lindita Vrushi

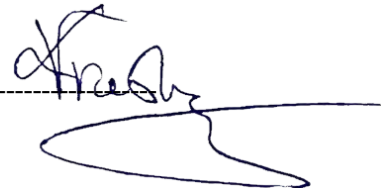
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