

**CERTIFICATE OF ANALYSIS
COA**

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

Lot #	TOT210219
Batch #	210303-C
Manufacturing Date-	03.03.2021
Best Before Date-	03.03.2030

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

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

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Appearance:	Red	CONFORMS	Visual
Physical state	Creamy	CONFORMS	Organoleptic
Odor:	Natural and fresh fragrance	CONFORMS	Organoleptic
Relative Density (g/ml):	-	1.220 at 20°C	ISO 279:1998 (E)
Solubility:	Soluble in lipophilic fluids such as essential oils and vegetable oils.	CONFORMS	
Avid Value:	-	56.26	ISO 124:1999 (E)
Flash Point:	-	> 130 °C	ISO/TR 11018 (E)
Boiling point:	-	105 °C	
Melting point :	-	-8 °C	
Loss of drying:	≤5.0%	3.1%	ISO 212:2007(E)
Residual Solvents:	no	CONFORMS	GC-FID
Total ashes:	-	2.3%	WHO
Shelf life:		9 years	
Storage:	Keep in a tightly closed container in a cool and dry place, protected from sunlight. These are best stored in the refrigerator 2 - 10°C.		

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 aeroginosae</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	

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COMPONENTS Range %

Identification	Conforms to reference standard	CONFORMS	GC-FID
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	<u>Compound</u>	<u>%</u>
1	heptadecane	0.17
2	octadecane	0.12
3	palmitic acid (hexadecanoic)	0.22
4	methyl 11-(3-pentyl-2-oxiranyl) undecanoate	0.13
5	1-octadecanamine	3.92
6	7,11-hexadecadienal	0.2
7	oxacyclohexadecan-2-one	0.48
8	1-acetoxynonadecane	0.88
9	9,12-octadecadien-1-ol	0.2
10	tetradecylcyclohexane	0.32
11	oleic acid	0.1
12	heneicosane	0.7
13	nonivamide	7.98
14	nordihydrocapsaicin	0.65
15	capsaicin	36.82
16	dihydrocapsaicin	16.33
17	N-vanillyldecanamide	2.72
18	homocapsaicin	0.18
19	docosane	0.9
20	homocapsaicin II	1.12
21	homodihydrocapsaicin	3.49
22	pentacosane	1.4
23	β -tocopherol	0.1
24	γ -tocopherol	0.2
25	hexatriacontane	0.84
26	vitamin E	5.71
27	ergost-5-en-3-ol	0.39
28	β -sitosterol	0.6
29	α -amyrin	1.02
30	β -amyrin	1.5
31	Lupeol	0.12

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<i>Secundare metabolotes</i>		
<u>Capsaicinoid</u>	<u>Rezultats</u>	<u>Methods</u>
Capsaicin	36,82 %	HPLC
Dihidrocapsaicina	16,33 %	HPLC
Nonivamide	7,39 %	HPLC
N-vanillyldecanamide	2,72 %	HPLC
Nordihidrocapsaicina	0,65 %	HPLC
Homodihidrocapsaicina	3,49 %	HPLC
Homocapsaicina	1,12 %	HPLC
<u>Vitamin E (Phytosterol)</u>		
a-tocopherol	5,71 %	HPLC
β -tocopherol	0,1 %	HPLC
γ -tocopherol	0,2 %	HPLC
B-sitosterol	0,6 %	HPLC
<u>Fatty acid</u>		
Oleic acid	0,1 %	HPLC
Palmitic acid	0,22 %	HPLC

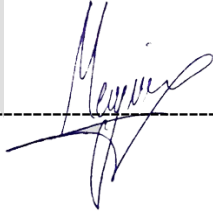
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COMMENTS: This CO₂ total extract is a 100% pure and natural product. It does not contain any artificial ingredients or adulteration of any kind to the best of our knowledge. The analysis and statements herein constitute the most complete information 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.

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Signature _____



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