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Product Name:	Sambucus nigra CO ₂ Total Extract		
Product Use:	Raw materials for industry		
Scientific Name:	Sambucus nigra		
Country of origin:	Albania		
Company Name:	Esencial ®		
INCI Name:	Sambucus nigra flower Extract		
Lot #	TOT190318		
Batch #	191009-C		
Manufacturing Date-	uring Date- 10/2019		
Best Before Date-	10/2028		
Part Used:	Elderflower		
Extraction Method:	SCFE CO ₂		
Quality:	100% Pure and Natural		



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):	-	1.2 at 20°C	ISO 279:1998 (E)
Solubility:	Soluble in lipophilic fluids such as essential oils and vegetable oils.	CONFORMS	
Avid Value:	-	72.3	ISO 124:1999 (E)
Flash Point:	-	> 104 °C	
Boiling point:	-	80 °C	ISO/TR 11018 (E)
Melting point :	-	60 °C	
Loss of drying:	≤5.0%	0.4%	ISO 212:2007(E)
Residual Solvents:	no	CONFORMS	GC-FID
Total ashes:	1-111111	4.0%	WHO
Shelf life:	1311 / 1	9 years	7
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.			



COMPONENTS Range %

Identification	Conforms to reference standard	CONFORMS	GC-FID	

	<u>Compound</u>	<u>%</u>
1	3-Hexanone	6.2
2	2-Hexanone	10.5
3	3-Hexanol	4
4	2-Hexanol	6.2
5	cis-Rose oxide	2.2
6	Nonanal	1.3
7	Tetradecane	1.2
8	trans-Linalool oxide	2.9
9	Hotrienol	2.6
10	Hexanoic acid	2.1
11	Nonadecane	12.3
12	Eicosane	3.5
13	Anisaldehyde	3.9
14	Heneicosane	18.8
15	Tricosane	17.3
16	(E)-Anethol	1.4
17	2-Ethyl hexanoic acid	1.7
18	2-Phenoxyethanol	1.9



HEAVY METAL TESTS	SPECIFICATIONS	RESULTS	METHOD	
Lead (Pb)	≤5.0 ppm	0.3 ppm		
Cadmium (Cd)	≤1.0 ppm	0.05 ppm	ISO 11212	
Arsenic (As)	≤1.5 ppm	0.05 ppm	Spectrofotometry	
Mercury (Hg)	≤0.1 ppm	<0.04 ppm		

MICROBIAL ANALYSIS	<u>SPECIFICATIONS</u>	RESULTS	METHOD
Bacterial Count			
Staphylococcus aureus	< 1000 CFU/g	CONFORMS	ISO 21149
Escherichia coli	< 1000 CFU/g	CONFORMS	
Pseudomonas aeroginosae	< 1000 CFU/g	CONFORMS	
Yeast and Mould			
Candida allbicans	< 100 CFU/g	CONFORMS	laa laasa
Aspergilius fumigatus	< 100 CFU/g	CONFORMS	ISO 16212
			
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BaP	Limit 0.18 µg/kg	NOT DETECTED	Ph. Eur.
TOTAL PAHs	Limit 0.2 µg/kg	NOT DETECTED	Ph. Eur.
(BaP, BaA, BbF,CHR)			
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



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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