



GC-MS Analysis					
Product Name		Sweet Fennel Es.Oil			
Product Type		Essential oil			
Botanical Name		<i>Foeniculum vulgare var. dulce</i>			
Batch N°		E1001137			
Label name		GREEK SWEET FENNEL ORGANIC ESSENTIAL OIL			
Refractive Index at 20°C		1.520			
Optical Rotation (°)		+16°			
Specific Gravity (g/mL) at 20°C		0.943			
Production Date		October 2022			
Shelf Life		5 years			
Origin		Greece			
Cultivation		Certified organic			
Production		Steam Distillation			
Plant Part		Seeds			
Time	Compounds	CAS N°	%	Chemical Family	IFRA 49th Restriction
13.67	Alpha-Pinene	80-56-8	15.84	Monoterpene	
16.29	Camphene	79-92-5	0.29	Monoterpene	
19	Beta-Pinene	127-91-3	1.44	Monoterpene	
19.86	Sabinene	3387-41-5	0.27	Monoterpene	
22.75	Beta-Myrcene	123-35-3	2.08	Monoterpene	
23	Alpha-Phellandrene	99-83-2	8.14	Monoterpene	

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essential oils

25.41	Limonene	138-86-3	2.27	Monoterpene	Cosmetic Allergen
26.13	Beta-Phellandrene	555-10-2	1.14	Monoterpene	
27.88	Cis-Beta-Ocimene	3338-55-4	0.34	Monoterpene	
28.85	Gamma-Terpinene	99-85-4	1.13	Monoterpene	
30.61	Para-Cymene	99-87-6	0.48	Monoterpene	
40.27	Fenchone	1195-79-5	10.8	Monoterpenic ketone	
48.66	Camphor	76-22-2	0.26	Monoterpenic ketone	
58.09	Estragole	140-67-0	2.1	Phenylpropanoid	Dermal Sens. and Systemic Tox.
63.4	Cis-Anethole	25679-28-1	0.17	Phenylpropanoid	
67.7	Trans-Anethole	4180-23-8	51.89	Phenylpropanoid	
78.59	Para-Anisaldehyde	123-11-5	0.06	Aromatic aldehyde	Dermal Sens. and Systemic Tox.
Total			98,70		

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