



GC-MS Analysis					
Product Name			Pine Es,Oil		
Product Type			Essential oil		
Label name			PINE CEMBRA ESSENTIAL OIL		
Botanical Name			<i>Pinus cembra</i>		
Batch N°			E1001113		
Density at 20°C (g/cm <sup>3</sup> )			0,857		
Refractive Index			1,474		
Optical rotation at 20°C			-16,4		
Cultivation			Conventional		
Production Date			November 2022		
Shelf Life			5 years		
Origin			Austria		
Production			Steam Distillation		
Plant Part			Twigs/Leaves		
Time	Compounds	CAS N°	%	Chemical Family	IFRA 49th Restriction
13,62	Alpha-Pinene	80-56-8	34,41	Monoterpene	
14,58	Camphene	79-92-5	0,89	Monoterpene	
20,75	Beta-pinene	18172-67-3	13,74	Monoterpene	
22,8	Beta-Myrcene	123-35-3	6,82	Monoterpene	
24,78	Para-cymene	99-87-6	2,41	Monoterpene	
25,5	Limonene	138-86-3	10,95	Monoterpene	Cosmetic Allergen
48,6	Alpha-terpineol	98-55-5	0,55	Alcohol	
50,54	Delta-3-Carene	13466-78-9	8,32	Sesquiterpene	
53,62	Terpinolene	586-62-9	1,3	Sesquiterpene	
54,6	Beta-Caryophyllene	87-44-5	4,09	Sesquiterpene	
55,88	Beta-phellandrene	555-10-2	10,8	Sesquiterpene	
65,04	Bornyl Acetate	5655-61-8	0,71	Monoterpenic Ester	
67,03	Caryophyllene oxide	1139-30-6	0,07	Sesquiterpene	
<b>Total</b>			<b>95,06</b>		

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