



## GC-MS Analysis

<b>Product Name</b>	<b>Pine Es.Oil</b>				
<b>Product Type</b>	<b>Essential oil</b>				
<b>Botanical Name</b>	<b><i>Pinus sylvestris</i></b>				
<b>Batch N°</b>	<b>PS2023002B</b>				
<b>Label name</b>	<b>GREEK PINE ORGANIC ESSENTIAL OIL</b>				
<b>Density at 20°C (g/cm<sup>3</sup>)</b>	<b>0.861</b>				
<b>Refractive index</b>	<b>1.471</b>				
<b>Optical rotation at 20°C</b>	<b>-28.0°</b>				
<b>Production Date</b>	<b>October 2022</b>				
<b>Shelf Life</b>	<b>5 years</b>				
<b>Origin</b>	<b>Greece</b>				
<b>Production</b>	<b>Steam Distillation</b>				
<b>Plant Part</b>	<b>Needles</b>				
Time	Compounds	CAS N°	%	Chemical Family	IFRA 49th Restriction
13.62	Alpha-Pinene	80-56-8	59.14	Monoterpene	
14.58	Camphene	79-92-5	1.66	Monoterpene	
20.75	Beta-pinene	18172-67-3	8.62	Monoterpene	
22.8	Beta-Myrcene	123-35-3	4.39	Monoterpene	
24.78	Para-cymene	99-87-6	1.02	Monoterpene	
25.5	Limonene	138-86-3	8.14	Monoterpene	Cosmetic Allergen
48.6	Alpha-terpineol	98-55-5	0.42	Alcohol	

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**vessel**  
essential oils

50.54	Delta-3-Carene	13466-78-9	9.26	Sesquiterpene
51.52	Camphene	79-92-5	1.66	Sesquiterpene
53.62	Terpinolene	586-62-9	1.15	Sesquiterpene
54.6	Beta-Caryophyllene	87-44-5	1.77	Sesquiterpene
55.88	Beta-phellandrene	555-10-2	1.15	Sesquiterpene
65.04	Bornyl Acetate	5655-61-8	0.61	Monoterpenic Ester
67.03	Caryophyllene oxide	1139-30-6	0.07	Sesquiterpene
Total			99.06	

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