

GC-MS Analysis					
Product Name		Fir Needle, Austria Es.Oil			
Product Type		Essential oil			
Label name		FIR NEEDLE AUSTRIA ESSENTIAL OIL			
Botanical Name		<i>Abies alba</i>			
Batch N°		NA2023001B			
Density at 20°C (g/cm³)		0.885			
Refractive Index		1.472			
Optical rotation at 20°C		+16.71°			
Cultivation		Wild harvesting			
Production Date		June 2022			
Shelf Life		5 years			
Origin		Austria			
Production		Steam distillation			
Plant Part		Needles and branches			
Time	Compounds	CAS N°	%	Chemical Family	IFRA 49th Restriction
12.43	Alpha-pinene	80-56-8	6.95	Monoterpene	
13.52	Camphene	79-92-5	7.31	Monoterpene	
14.02	Beta-pinene	127-91-3	7.98	Monoterpene	
15.75	Beta-myrcene	123-35-3	1.17	Monoterpene	
16.89	Delta-3-Carene	13466-78-9	7.34	Monoterpene	
20.32	Limonene	5989-27-5	32.64	Monoterpene	Cosmetic



vessel
essential oils

				Allergen
23.1	Beta-phellandrene	555-10-2	2.22	Sesquiterpene
26.12	Bornyl acetate	76-49-3	11.73	Monoterpenic ester
30.12	Alpha-terpinyl acetate	80-26-2	4.17	Monoterpenic ester
32.12	Trans-beta-caryophyllene	87-44-5	1.30	Sesquiterpene
32.98	Alpha-copaene	3856-25-5	2.75	Sesquiterpene
33.41	Dodecanal	112-54-9	1.14	Sesquiterpene
34.18	Alpha-humulene	6753-98-6	0.38	Sesquiterpene
34.90	Alpha-himachalene	3853-83-6	0.68	Sesquiterpene
35.20	Alpha-murolene	10208-80-7	0.07	Sesquiterpene
35.69	Epsilon-Cadinene	27542-04-7	0.59	Sesquiterpenoid
37.90	Beta-himachalene	1461-03-6	2.10	Sesquiterpene
Total			90.52	

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