

GC-MS Analysis					
Product Name		Douglas Fir Needle, Es.Oil			
Product Type		Essential oil			
Label name		DOUGLAS FIR NEEDLE ESSENTIAL OIL FROM CANADA			
Botanical Name		<i>Pseudotsuga menziesii</i>			
Batch N°		DF2023001B			
Density at 20°C (g/cm³)		0.869			
Refractive Index		1.473			
Optical rotation at 20°C		17.53°			
Cultivation		Wild harvesting			
Production Date		June 2022			
Shelf Life		5 years			
Origin		Canada			
Production		Steam distillation			
Plant Part		Needles and branches			
Time	Compounds	CAS N°	%	Chemical Family	IFRA 49th Restriction
11.94	Alpha-Thujene	2867-05-2	1.01	Monoterpene	
12.43	Alpha-pinene	80-56-8	13.03	Monoterpene	
13.52	Camphene	79-92-5	1.07	Monoterpene	
13.96	Sabinene	3387-41-5	8.68	Monoterpene	
14.83	Beta-pinene	127-91-3	33.39	Monoterpene	
15.44	Myrcene	123-35-3	2.05	Monoterpene	



vessel
essential oils

16.89	Delta-3-Carene	13466-78-9	4.57	Monoterpene
20.32	Limonene	5989-27-5	2.60	Monoterpene Cosmetic Allergen
21.15	Alpha-terpinene	99-86-5	2.70	Sesquiterpene
23.1	Beta-phellandrene	555-10-2	1.45	Sesquiterpene
23.85	Gamma-terpinene	99-85-4	4.63	Sesquiterpene
24.32	Terpinolene	586-62-9	14.59	Sesquiterpene
24.93	Para-Cymenene	99-87-6	0.20	Sesquiterpene
25.34	Terpinen-4-ol	2438-10-0	3.49	Sesquiterpene
26.03	Bornyl Acetate	76-49-3	0.51	Monoterpenic ester
26.12	Citronellyl acetate	150-84-5	1.68	Monoterpenic ester
32.12	Geranyl acetate	105-87-3	0.86	Monoterpenic ester
Total			96.51	

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