



vessel
essential oils

GC-MS Analysis			
Product Name		Black PepperEs.Oil	
Product Type		Essential oil	
Botanical Name		<i>Piper nigrum</i>	
Batch N°		PE2023001B	
Label name		BLACK PEPPER ORGANIC ESSENTIAL OIL FROM SRI LANKA	
Density at 20°C (g/cm³)		0.870	
Refractive Index at 20°C		1.480	
Optical rotation at 20°C		-7.60°	
Production Date		June 2022	
Shelf Life		5 years	
Origin		Sri Lanka	
Cultivation		Certified organic	
Production		Steam Distillation	
Plant Part		Fruits	
a/a	Compounds	%	IFRA 49th Restriction
1	Alpha-Pinene	14.30	
2	Sabinene	0.24	
3	Beta-Pinene	14.08	
4	Myrcene	1.96	
5	Alpha-Phellandrene	1.13	
6	3-Carene	14.94	
7	Limonene	21.72	Cosmetic Allergen
8	Beta-Phellandrene	1.39	

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9	Alpha-Thujene	0.70
10	Terpinolene	0.53
11	Linalool	0.30
12	Terpinen-4-ol	0.22
13	Delta-Elemene	1.69
14	Alpha-Copaene	3.00
15	Alpha-Cubebene	0.15
16	Beta-Cubebene	0.26
17	Beta-Elemene	0.27
18	Trans-beta-Caryophyllene	14.08
19	Beta-Copaene	0.10
20	Bicyclogermacrene	0.51
21	Alpha-Muurolene	0.49
22	Beta-bisabolene	0.92
23	Cubedol	0.25
24	Delta-Cadinene	1.21
25	Caryophyllene Oxide	0.50
26	Tau-Muurool	0.10
Total		95.04

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