

Client



Source

Black Pepper (*Piper nigrum*)

IN-59465 - India

Sample

Black Pepper (*Piper nigrum*)

Identification #: IN-59465

Type:..... Essential Oil

CAS Number:... 8006-82-4

Nature's Gift

Properties

Country Of Origin India

Specific Gravity NT

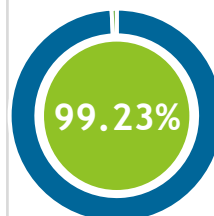
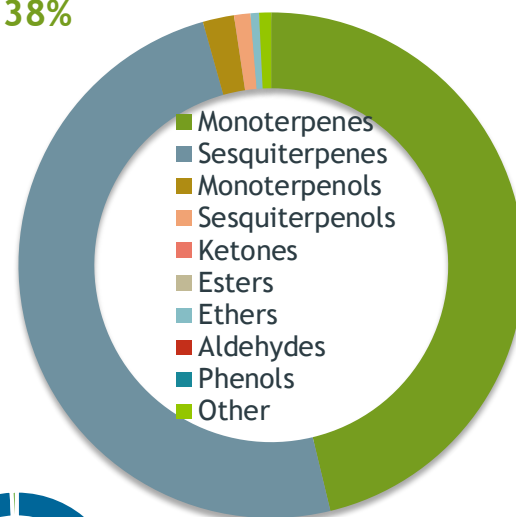
Refractive Index NT

Primary

21.41% beta-Caryophyllene14.56% Limonene8.61% beta-Pinene

Sesquiterpenes

49.38%



Percentage Identified

Result



6/19/2025

Conclusion

No adulterants, diluents, or contaminants were detected via this method. This oil meets the expected profile for genuine Essential Oil of Black Pepper (*Piper nigrum*)

Internal Number: | EVS-6781



Essential Validation Services

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Berthoud, CO 80513

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<https://essentialvalidationservices.com/>

Monoterpenes	46.22%	46.22
Sesquiterpenes	49.38%	49.38
Monoterpenols		2.00%
Sesquiterpenols		1.05%
Ketones		0.00%
Esters		0.00%
Ethers		0.54%
Aldehydes		0.00%
Phenols		0.00%
Other		0.77%

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Total Percentage		99.23%		
Number	RT	Area %	Compound Name	Chemical Family
1	7.90	1.43%	alpha-Thujene	Monoterpene
2	8.16	6.32%	alpha-Pinene	Monoterpene
3	8.75	0.17%	Camphene	Monoterpene
4	9.72	8.18%	Sabinene	Monoterpene
5	9.89	8.61%	beta-Pinene	Monoterpene
6	10.44	1.47%	Myrcene	Monoterpene
7	10.98	0.01%	Pseudolimonene	Monoterpene
8	11.09	0.73%	alpha-Phellandrene	Monoterpene
9	11.19	2.72%	delta-3-Carene	Monoterpene
10	11.55	0.42%	alpha-Terpinene	Monoterpene
11	11.89	0.32%	para-Cymene	Monoterpene
12	12.14	14.56%	Limonene	Monoterpene
13	12.47	0.02%	(Z)-beta-Ocimene	Monoterpene
14	12.92	0.15%	(E)-beta-Ocimene	Monoterpene
15	13.39	0.70%	gamma-Terpinene	Monoterpene
16	13.91	0.27%	trans-Sabinene hydrate	Monoterpenol
17	14.45	0.04%	Isoterpinolene	Monoterpene
18	14.61	0.37%	Terpinolene	Monoterpene
19	15.34	0.52%	Linalool	Monoterpenol
20	16.38	0.05%	cis-para-Menth-2-en-1-ol	Monoterpenol
21	18.94	0.99%	Terpinen-4-ol	Monoterpenol
22	19.63	0.17%	alpha-Terpineol	Monoterpenol
23	25.84	2.03%	delta-Elemene	Sesquiterpene
24	26.34	0.52%	alpha-Cubebene	Sesquiterpene
25	27.16	0.18%	alpha-Ylangene	Sesquiterpene
26	27.56	6.10%	alpha-Copaene	Sesquiterpene
27	28.07	0.54%	beta-Cubebene	Sesquiterpene
28	28.16	0.62%	beta-Elemene	Sesquiterpene
29	28.84	0.22%	alpha-Gurjunene	Sesquiterpene
30	29.42	21.41%	beta-Caryophyllene	Sesquiterpene
31	29.77	0.27%	beta-Copaene	Sesquiterpene
32	30.03	0.04%	alpha-Guaiene	Sesquiterpene
33	30.55	0.22%	trans-Muurola-3,5-diene	Sesquiterpene
34	30.79	1.70%	alpha-Humulene	Sesquiterpene
35	30.87	0.44%	(E)-beta-Farnesene	Sesquiterpene

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