

Client



Source



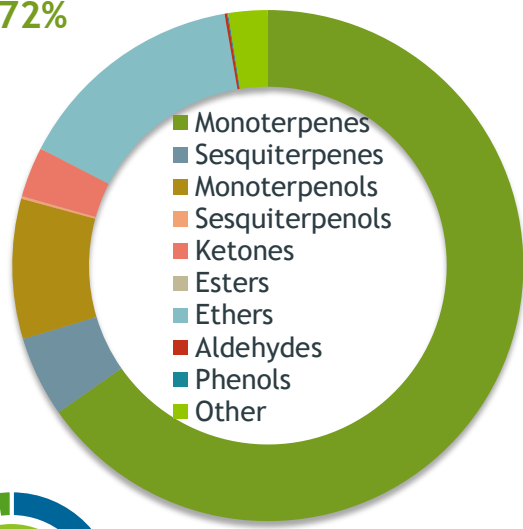
Palo Santo (*Bursera graveolens*)
EC-59239

Sample

Palo Santo (*Bursera graveolens*)
Batch #:..... EC-59239
Type:..... Essential Oil
CAS Number:... 959130-05-3
Nature's Gift

Monoterpenes

64.72%



Client

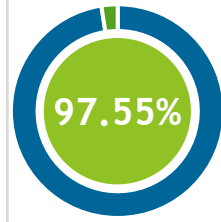


Website



Primary

62.02% | Limonene
14.54% | Menthofuran
7.08% | alpha-Terpineol



Percentage Identified

Result



Conclusion

No adulterants, diluents, or contaminants were detected via this method. This oil meets the expected profile for genuine Essential Oil of Palo Santo (*Bursera graveolens*)

Internal Number: | EVS-4926



Essential Validation Services

747 SW 2nd Ave IMB 12 Suite 306
Gainesville, FL 32601

317.361.5044 |
<https://essentialvalidationservices.com/>

Alan Christen

Monoterpenes	64.72%	64.72%
Sesquiterpenes	5.06%	5.06%
Monoterpenols	8.78%	8.78%
Sesquiterpenols	0.17%	0.17%
Ketones	3.14%	3.14%
Esters	0.02%	0.02%
Ethers	14.59%	14.59%
Aldehydes	0.16%	0.16%
Phenols	0.06%	0.06%
Other	2.47%	2.47%

ESSENTIAL VALIDATION SERVICES | 747 SW 2ND AVE GAINESVILLE, FLORIDA 32601 | 317-361-5044

- Essential Oil testing is performed by using qualitative GC-MS. Method: SOP.T.01 Client Method
- This report may not be published without the consent of Essential Validation Services.
- Chromatograph image may be requested
- This report is valid for 1 year from the analyzed date

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Palo Santo (*Bursera graveolens*)

EC-59239

Total Percentage		97.55%		
Number	RT	Area %	Compound Name	Chemical Family
1	5.27	0.09%	(E)-2-Hexenal	Aliphatic Aldehyde
2	7.97	0.12%	alpha-Pinene	Monoterpene
3	8.68	0.04%	3-Methyl cyclohexanone	Aliphatic Ketone
4	9.50	0.01%	Sabinene	Monoterpene
5	9.66	0.01%	beta-Pinene	Monoterpene
6	10.05	0.17%	6-Methyl-5-hepten-2-one	Aliphatic Ketone
7	10.25	0.44%	Myrcene	Monoterpene
8	10.79	0.03%	Pseudolimonene	Monoterpene
9	10.88	0.12%	alpha-Phellandrene	Monoterpene
10	11.36	0.01%	alpha-Terpinene	Monoterpene
11	11.70	1.76%	para-Cymene	Monoterpene
12	12.01	62.02%	Limonene	Monoterpene
13	13.20	0.02%	gamma-Terpinene	Monoterpene
14	14.41	0.03%	Isoterpinolene	Monoterpene
15	14.62	0.13%	para-Cymenene	Monoterpene
16	15.14	0.07%	Linalool	Monoterpenol
17	15.63	0.01%	1,3,8-para-Menthatriene	Monoterpene
18	16.05	0.30%	cis-para-Mentha-2,8-dien-1-ol	Monoterpenol
19	16.54	0.05%	cis-Limonene oxide	Monoterpene Ether
20	16.73	0.37%	trans-para-Mentha-2,8-dien-1-ol	Monoterpenol
21	17.25	0.01%	neo-Isopulegol	Monoterpenol
22	17.33	0.15%	cis-beta-Terpineol	Monoterpenol
23	17.59	0.38%	Isomenthone	Monoterpene Ketone
24	17.71	0.01%	Isopulegol	Monoterpenol
25	17.98	14.54%	Menthofuran	Monoterpene Ether
26	18.16	0.06%	beta-Terpineol	Monoterpenol
27	18.27	0.03%	delta-Terpineol	Monoterpenol
28	18.34	0.02%	para-Mentha-1,5-dien-8-ol	Monoterpenol
29	18.49	0.05%	(Z)-isocitral	Monoterpene Aldehyde
30	18.65	0.35%	Pinocamphone	Monoterpene Ketone
31	18.72	0.04%	Terpinen-4-ol	Monoterpenol
32	18.91	0.06%	para-Methylacetophenone	Simple Phenolic
33	19.08	0.16%	trans-para-Mentha-1(7),8-dien-2-ol	Monoterpenol
34	19.29	0.01%	Menthol	Monoterpenol
35	19.45	7.08%	alpha-Terpineol	Monoterpenol

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Palo Santo (Bursera graveolens)
EC-59239

Number	RT	Area %	Compound Name	Chemical Family
36	19.532	0.22%	cis-Dihydrocarvone	Monoterpenol
37	20.53	0.47%	trans-Carveol	Monoterpenol
38	20.93	0.07%	Verbenone	Monoterpene Ketone
39	21.12	0.23%	16.94 Carveol<cis->	0.00
40	21.32	0.98%	Pulegone	Monoterpene Ketone
41	21.59	0.93%	Carvone	Monoterpene Ketone
42	22.01	0.02%	Linalyl acetate	Monoterpene Ester
43	22.97	0.02%	Perilla aldehyde	Monoterpene Aldehyde
44	25.66	0.17%	delta-Elemene	Sesquiterpene
45	26.15	0.21%	alpha-Cubebene	Sesquiterpene
46	27.36	0.17%	alpha-Copaene	Sesquiterpene
47	27.58	0.01%	2-epi-alpha-Funebrene	Sesquiterpene
48	27.99	0.37%	beta-Elemene	Sesquiterpene
49	28.56	0.01%	alpha-Chamipinene	Sesquiterpene
50	28.97	0.07%	alpha-Cedrene	Sesquiterpene
51	29.12	0.16%	beta-Cubebene	Sesquiterpene
52	29.60	0.17%	beta-Cedrene	Sesquiterpene
53	29.76	0.13%	Thujopsene	Sesquiterpene
54	29.92	0.02%	gamma-Elemene	Sesquiterpene
55	30.13	0.19%	beta-Humulene	0.00
56	30.27	0.19%	beta-Barbatene	Sesquiterpene
57	30.40	0.38%	Aromadendrene	Sesquiterpene
58	30.62	0.03%	alpha-Humulene	Sesquiterpene
59	30.73	0.03%	(E)-beta-Farnesene	Sesquiterpene
60	31.49	0.55%	cis-Cadina-1(6),4-diene	Sesquiterpene
61	31.69	1.54%	Germacrene D	Sesquiterpene
62	31.85	0.04%	cis-Muuroala-4(14),5-diene	Sesquiterpene
63	31.99	0.10%	gamma-Gurjunene	Sesquiterpene
64	32.47	0.18%	alpha-Amorphene	Sesquiterpene
65	32.82	0.21%	29.03 Farnesene<(E,E)-alpha->	0.00
66	32.89	0.06%	beta-Bisabolene	Sesquiterpene
67	33.01	0.20%	28.53 Muuroala-4(14),5-diene<trans->	0.00
68	33.25	0.35%	beta-Cadinene	Sesquiterpene
69	33.45	0.02%	Mint lactone	Monoterpene Lactone
70	33.56	0.10%	epi-alpha-Selinene	Sesquiterpene
71	33.78	0.01%	beta-Curcumene	Monoterpene

