

Client



Source

Copaiba Balsam (*Copaifera officinalis*)

BR-59415 - Brazil

Sample	Copaiba Balsam (<i>Copaifera officinalis</i>) Identification #: BR-59415 Type: Essential Oil CAS Number: 8001-61-4 <i>Nature's Gift</i>																					
Properties	Country Of Origin: Brazil Specific Gravity: NT Refractive Index: NT																					
Primary	<u>33.47%</u> <u>29.58%</u> <u>7.81%</u>	<u>beta-Caryophyllene</u> <u>Carotol</u> <u>alpha-Humulene</u>																				
Result		Conclusion <p>No adulterants, diluents, or contaminants were detected via this method. This oil meets the expected profile for genuine Essential Oil of Copaiba Balsam (<i>Copaifera officinalis</i>)</p>																				
	12/9/2024 	Internal Number: EVS-6436																				
	Essential Validation Services 747 SW 2nd Ave IMB 12 Suite 306 Gainesville, FL 32601 317.361.5044 https://essentialvalidationservices.com/ 	<p>Sesquiterpenes 92.85%</p> <ul style="list-style-type: none"> ■ Monoterpenes ■ Sesquiterpenes ■ Monoterpenols ■ Sesquiterpenols ■ Ketones ■ Esters ■ Ethers ■ Aldehydes ■ Phenols ■ Other <p>Percentage Identified</p> <table border="1"> <tr> <td>Monoterpenes</td> <td>0.13%</td> </tr> <tr> <td>Sesquiterpenes</td> <td>92.85</td> </tr> <tr> <td>Monoterpenols</td> <td>0.00%</td> </tr> <tr> <td>Sesquiterpenols</td> <td>34.56%</td> </tr> <tr> <td>Ketones</td> <td>0.66%</td> </tr> <tr> <td>Esters</td> <td>0.03%</td> </tr> <tr> <td>Ethers</td> <td>1.06%</td> </tr> <tr> <td>Aldehydes</td> <td>0.00%</td> </tr> <tr> <td>Phenols</td> <td>0.00%</td> </tr> <tr> <td>Other</td> <td>-</td> </tr> </table>	Monoterpenes	0.13%	Sesquiterpenes	92.85	Monoterpenols	0.00%	Sesquiterpenols	34.56%	Ketones	0.66%	Esters	0.03%	Ethers	1.06%	Aldehydes	0.00%	Phenols	0.00%	Other	-
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Total Percentage		129.89%		
Number	RT	Area %	Compound Name	Chemical Family
1	11.95	0.02%	Menthene	Monoterpene
2	12.51	0.08%	(Z)-beta-Ocimene	Monoterpene
3	16.68	0.03%	Alloocimene	Monoterpene
4	25.91	0.89%	delta-Elemene	Sesquiterpene
5	26.42	1.31%	alpha-Cubebene	Sesquiterpene
6	27.25	0.04%	Longicyclene	Sesquiterpene
7	27.33	0.18%	alpha-Ylangene	Sesquiterpene
8	27.67	5.93%	alpha-Copaene	Sesquiterpene
9	28.16	0.54%	beta-Cubebene	Sesquiterpene
10	28.26	2.23%	beta-Elemene	Sesquiterpene
11	28.70	0.50%	Cyperene	Sesquiterpene
12	28.97	0.06%	alpha-Cedrene	Sesquiterpene
13	29.69	33.47%	beta-Caryophyllene	Sesquiterpene
14	29.95	3.75%	gamma-Elemene	Sesquiterpene
15	30.16	7.01%	trans-alpha-Bergamotene	Sesquiterpene
16	30.24	0.23%	Aromadendrene	Sesquiterpene
17	30.42	0.63%	(Z)-beta-Farnesene	Sesquiterpene
18	30.68	0.22%	epi-beta-Santalene	Sesquiterpene
19	30.75	0.24%	beta-Copaene	Sesquiterpene
20	30.99	7.81%	alpha-Humulene	Sesquiterpene
21	31.11	0.74%	allo-Aromadendrene	Sesquiterpene
22	31.36	0.10%	gamma-Gurjunene	Sesquiterpene
23	31.63	0.16%	trans-Cadina-1(6),4-diene	Sesquiterpene
24	31.81	2.68%	gamma-Murolene	Sesquiterpene
25	32.02	6.52%	Germacrene D	Sesquiterpene
26	32.13	0.85%	Zingiberene	Sesquiterpene
27	32.28	1.12%	beta-Selinene	Sesquiterpene
28	32.39	0.17%	Viridiflorene	Sesquiterpene
29	32.56	1.29%	alpha-Selinene	Sesquiterpene
30	32.72	0.98%	alpha-Murolene	Sesquiterpene
31	32.87	0.71%	cis-alpha-Bisabolene	Sesquiterpene
32	33.19	4.53%	beta-Bisabolene	Sesquiterpene
33	33.28	1.38%	gamma-Cadinene	Sesquiterpene
34	33.56	3.91%	delta-Cadinene	Sesquiterpene
35	33.68	0.29%	Zonarene	Sesquiterpene



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Number	RT	Area %	Compound Name	Chemical Family
36	33.743	0.61%	beta-Sesquiphellandrene	Sesquiterpene
37	33.86	0.09%	trans-gamma-Bisabolene	Sesquiterpene
38	34.03	0.23%	trans-Cadina-1,4-diene	Sesquiterpene
39	34.17	0.47%	Selina-3,7(11)-diene	Sesquiterpene
40	34.41	0.60%	trans-alpha-Bisabolene	Sesquiterpene
41	34.51	0.03%	cis-Sesquisabinene hydrate	Monoterpene Ester
42	34.67	0.07%	Elemol	Sesquiterpenol
43	34.97	0.38%	Germacrene B	Sesquiterpene
44	35.38	0.13%	Maaliol	Sesquiterpenol
45	35.62	0.54%	31.73 Caryolan-8-ol	0.00
46	35.70	0.05%	Spathulenol	Sesquiterpenol
47	35.85	0.69%	Caryophyllene oxide	Sesquiterpene Ether
48	36.16	0.04%	Gleenol	Sesquiterpenol
49	36.34	0.12%	Viridiflorol	Sesquiterpenol
50	36.45	0.05%	32.70 Cubeban-11-ol	0.00
51	36.73	0.14%	Ledol	Sesquiterpenol
52	36.91	0.10%	Humulene epoxide II	Sesquiterpene Ether
53	37.37	0.96%	Junenol	Sesquiterpenol
54	37.64	0.16%	1,10-di-epi-Cubenol	Sesquiterpenol
55	37.86	0.03%	1-epi-Cubenol	Sesquiterpenol
56	38.20	0.21%	T-Cadinol	Sesquiterpenol
57	38.28	0.31%	T-Muurolol	Sesquiterpenol
58	38.37	0.40%	alpha-Muurolol	Sesquiterpenol
59	38.69	0.54%	alpha-Cadinol	Sesquiterpenol
60	39.04	0.01%	trans-Calamenen-10-ol	Sesquiterpenol
61	39.13	0.03%	Pogostol	Sesquiterpenol
62	39.31	0.10%	beta-Bisabolol	Sesquiterpenol
63	39.84	0.03%	alpha-Bisabolol	Sesquiterpenol
64	40.18	0.14%	Junipercamphor	Sesquiterpene Ketone

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98	36.95	29.58%	Carotol	Sesquiterpenol	
99	37.04	0.27%	Humulene epoxide II	Sesquiterpene Ether	
100	38.22	0.90%	Daucol	Sesquiterpenol	
101	38.70	0.15%	Pogostol	Sesquiterpenol	
102	39.27	0.47%	Bulnesol	Sesquiterpenol	
103	39.48	0.21%	(E)-alpha-Asarone	Sesquiterpene Ketone	
104	39.84	0.07%	alpha-Bisabolol	Sesquiterpenol	
105	39.92	0.06%	Cedr-8-en-13-ol	Sesquiterpenol	
106	40.19	0.31%	Junipercamphor	Sesquiterpene Ketone	
107	49.37	0.01%	Hexadecanoic acid	Fatty Acid	
108	53.85	0.02%	Phytol	Diterpenol	