



FLORANANDA IND. E COM. DE COSMÉTICOS E PRODUTOS NATURAIS LTDA ME  
Rua Elias Bichara Tabbal, 736. Jd. América - Jaú, SP  
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## CERTIFICADO DE ANÁLISE

Óleo essencial de Olíbano (*Boswellia carterii*)

<b>LOTE</b>	210805
<b>DATA DE VALIDADE</b>	11/2023
<b>DATA DE FABRICAÇÃO</b>	11/2020
<b>ORIGEM</b>	ÁFRICA
<b>MÉTODO DE EXTRAÇÃO</b>	DESTILAÇÃO À VAPOR DA RESINA DA ÁRVORE DA ESPÉCIE
<b>RESULTADO</b>	APROVADO

<b>TESTE</b>	<b>ESPECIFICAÇÕES</b>	<b>RESULTADOS</b>
<b>ASPECTO</b>	LÍQUIDO	OK
<b>COR</b>	AMARELO PÁLIDO	OK
<b>ODOR</b>	CARACTERÍSTICO	OK
<b>DENSIDADE (20°C)</b>	0.855 - 0.900	0.868
<b>ÍNDICE DE REFRAÇÃO (20°C)</b>	1.469 - 1.483	1.473

Armazenar em local seco, longe de umidade e do calor, protegido da luz, em recipiente original bem vedado.

Não contem OGM, nem foi utilizado para teste em animais.

Produto 100% puro, isento de solvente e diluente.

Segundo RDC 481/99, não suscetível à contaminação microbiológica.

Responsável Técnica: Gorete Vieira de Souza - CRQ 044100922



Produto certificado pelo IBD.

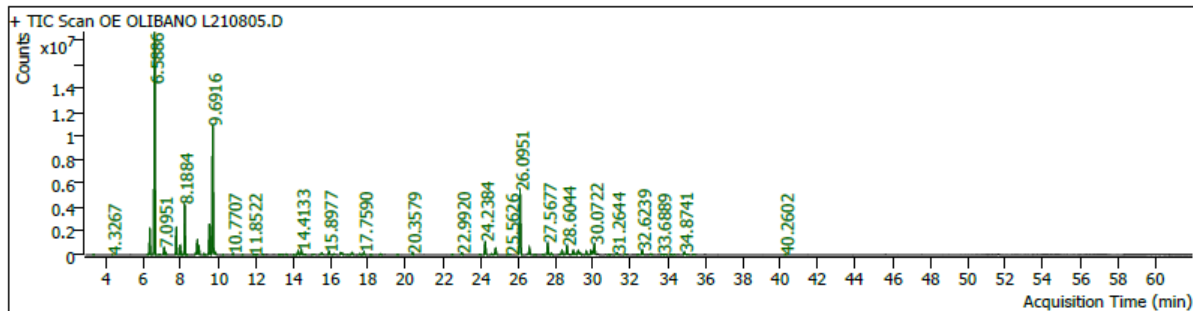


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Este documento apresenta uma cópia idêntica da cromatografia disponibilizada pelo fornecedor.

## CROMATOGRAFIA

Óleo essencial de Olíbano (*Boswellia carterii*)  
 Lote: 210805



Pk #	RT Min	Compound Name	CAS#	Peak Area	Component RI	Library RI	Match Factor	% of Total
1	3.3324	Toluene	108-88-3	90924.6	824		97.09	0.05
2	4.3267	3,3,5,5-Tetramethylcyclopentene	38667-10-6	16853.7	858		86.27	0.01
4	6.2328	PINENE<BETA-> 7.3685	127-91-3	174920.4	922		86.92	0.09
5	6.3294	THUJENE ALPHA 5.1448	2867-05-2	5028099.4	926	902	98.64	2.64
6	6.5886	PINENE<ALPHA-> 6.0514	80-56-8	55103544.8	934	970	99.71	28.97
7	6.8548	6.44 Thuja-2,4(10)-diene	36262-09-6	111506.3	943		83.88	0.06
8	7.0951	CAMPHENE 6.5344	79-92-5	1446201.2	952	984	98.22	0.76
9	7.1917	6.44 Thuja-2,4(10)-diene	36262-09-6	428893.5	955		94.01	0.23
10	7.7478	sabinene	3387-41-5	5616982.1	974	-	98.26	2.95
						1408698879		
11	7.9551	beta-Pinene	18172-67-3	1742730.2	981	-	99.63	0.92
						1931992831		
12	8.0871	6.26 Camphene	79-92-5	51102.1	985		82.40	0.03
13	8.1884	MYRCENE 7.5878	123-35-3	10298498.7	989	1014	99.29	5.41
14	8.3203	Carveol	99-48-9	100627.0	993		83.24	0.05
16	8.7868	PINENE<BETA-> 7.3685	127-91-3	397646.7	1007		93.46	0.21
17	8.8599	alpha-phellandrene	99-83-2	3117391.3	1009	-	97.38	1.64
						1408738815		
18	8.9541	CARENE<DELTA-3-> 8.1603	13466-78-9	2058371.6	1011	1010	97.93	1.08
19	9.2322	TERPINENE<ALPHA-> 8.5867	99-86-5	251272.3	1019	1042	95.13	0.13
20	9.3217	o-Cymene	527-84-4	27302.2	1021		82.53	0.01
21	9.5149	CYMENE<PARA-> 8.8647	99-87-6	7198912.2	1026	1050	98.47	3.78
22	9.6916	D-LIMONENE 9.0132	5989-27-5	33402035.4	1031	1054	99.71	17.56
23	9.7717	.beta.-Phellandrene	555-10-2	491895.8	1033		92.41	0.26
24	9.8400	Eucalyptol	470-82-6	316141.5	1035		92.67	0.17
25	10.2429	3-Carene	13466-78-9	53234.5	1045		92.60	0.03
27	10.7707	TERPINENE<GAMMA-> 10.0686	99-85-4	361250.4	1059	1084	94.81	0.19
28	11.2891	PINANOL<CIS-2-> 13.6547	4948-28-1	55050.0	1073		83.47	0.03
30	11.8522	TERPINOLENE 11.1336	586-62-9	134297.2	1087	1113	95.60	0.07
31	11.9559	(1R)-cis-Verbenol	13040-03-4	82702.3	1090		85.33	0.04
32	12.0572	11.09 Cymenene<para->	1195-32-0	128309.3	1093		85.51	0.07
33	12.3564	Cyclohexane, 2-ethenyl-1,1-dimethyl-3-methylene-	95452-08-7	185316.5	1100		80.22	0.10
38	13.2423	Thujone	546-80-5	157774.5	1121		88.63	0.08
39	13.3860	12.33 Mentha-2,8-dien-1-ol<trans-para->	7212-40-0	72516.7	1125		80.39	0.04
41	13.6169	.alpha.-Campholenal	4501-58-0	182567.0	1130		94.41	0.10
43	14.0081	cis-p-Mentha-2,8-dien-1-ol	3886-78-0	61024.9	1139		82.95	0.03
44	14.1424	Bicyclo[3.1.0]hexan-3-ol, 4-methylene-1-(1-methylethyl)-, (1.alpha.,3.alpha.,5.alpha.)-	3310-02-9	17491.4	1143		82.06	0.01
45	14.2437	12.99 Pinocarveol<trans->	547-61-5	921157.6	1145		90.06	0.48
46	14.4133	trans-Verbenol	1820-09-3	1277863.1	1149		97.15	0.67
48	14.6254	p-Mentha-1,5-dien-8-ol	1686-20-0	217715.6	1154		88.16	0.11



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Pk #	RT Min	Compound Name	CAS#	Peak Area	Component RI	Library RI	Match Factor	% of Total
49	15.0118	13.83 Sabina ketone	513-20-2	42667.6	1163		80.74	0.02
50	15.0942	14.00 Pinocamphone<trans->	547-60-4	51784.9	1165		75.48	0.03
51	15.4029	Bicyclo[3.1.0]hexan-3-ol, 4-methylene-1-(1-methylethyl)-, (1.alpha.,3.alpha.,5.alpha.)-	3310-02-9	12131.5	1172		80.09	0.01
52	15.5066	p-Mentha-1,5-dien-8-ol	1686-20-0	403835.9	1175		93.69	0.21
54	15.8977	TERPINEN-4-OL 14.8799	562-74-3	860902.6	1184	1183	97.65	0.45
55	16.1569	14.91 Cymen-8-ol<para->	1197-01-9	291059.3	1190		88.16	0.15
57	16.5244	alpha-Terpineol	10482-56-1	608863.2	1199	15403888 65	98.65	0.32
58	16.5975	14.99 Thuj-3-en-10-al	57129-54-1	420119.2	1200		76.29	0.22
60	16.8873	Bicyclo[3.1.0]hexan-3-ol, 4-methylene-1-(1-methylethyl)-, (1.alpha.,3.alpha.,5.alpha.)-	3310-02-9	92984.2	1207		89.35	0.05
61	17.1299	15.97 Verbenone	80-57-9	721028.3	1213		93.54	0.38
62	17.5423	16.44 Carveol<trans->	1197-07-5	276682.9	1222		90.83	0.15
63	17.7590	1-Methoxydecane	7289-52-3	681331.7	1227		98.46	0.36
64	18.1266	Carveol	99-48-9	76405.1	1235		84.21	0.04
66	18.6661	CARVONE 16.6689	99-49-0	256597.0	1248	984	94.92	0.13
68	19.5591	3,5-Dimethoxytoluene	4179-19-5	120557.2	1268		95.93	0.06
69	20.3579	19.62 Bornyl acetate	76-49-3	569232.8	1287		96.98	0.30
71	22.4831	21.77 Elemene<delta->	20307-84-0	135068.3	1336		89.73	0.07
72	22.9920	Copaene	3856-25-5	560556.4	1348		94.59	0.29
73	23.9557	Naphthalene, 1,2,4a,5,6,8a-hexahydro-4,7-dimethyl-1-(1-methylethyl)-	483-75-0	137053.5	1371		89.51	0.07
74	24.2384	Copaene	3856-25-5	3713055.4	1378		98.23	1.95
75	24.5871	(-)-.beta.-Bourbonene	5208-59-3	249973.3	1386		94.01	0.13
76	24.7945	24.15 Elemene<beta->	515-13-9	2060690.9	1391		96.90	1.08
77	25.4353	24.54 Cyperene	2387-78-2	121455.4	1406		91.84	0.06
78	25.5626	25.00 Gurjunene<alpha->	489-40-7	100823.9	1409		90.71	0.05
80	26.0951	CARYOPHYLLENE<(E)-> 25.1199 (BETA-)	87-44-5	20305977.8	1422	1449	99.72	10.67
81	26.5969	trans-.alpha.-Bergamotene	13474-59-4	1697819.4	1434		98.87	0.89
83	26.8702	Alloaromadendrene	25246-27-9	84603.7	1441		87.38	0.04
85	27.2873	cis-muurola-3,5-diene	1000365-95-4	66351.5	1451		81.72	0.03
86	27.5677	26.82 Humulene<alpha->	6753-98-6	3356727.6	1458		96.88	1.76
87	27.7491	Aromandendrene	489-39-4	519645.4	1462		94.89	0.27
88	28.2227	27.77 Cadina-1(6),4-diene<trans->	20085-11-4	31213.4	1474		84.77	0.02
89	28.3405	27.91 Muurolene<gamma->	30021-74-0	1194631.3	1477		94.87	0.63
90	28.6044	(1R,2S,6S,7S,8S)-8-Isopropyl-1-methyl-3-methylenetricyclo[4.4.0.0 <sup>2,7</sup> ]decane-rel-	18252-44-3	2575417.2	1483		97.50	1.35
92	28.8400	25.00 Gurjunene<alpha->	489-40-7	60742.9	1489		85.13	0.03
93	28.9389	28.37 Selinene<beta->	17066-67-0	1133027.2	1491		97.99	0.60
94	29.0544	(+)-epi-Bicyclosesquiphellandrene	54274-73-6	302375.5	1494		91.62	0.16
95	29.2075	Valencene	4630-07-3	1449329.2	1498		94.27	0.76
96	29.2994	.alpha.-Muurolene	10208-80-7	707807.9	1500		87.80	0.37
98	29.6293	.beta.-Bisabolene	495-61-4	834252.4	1509		97.06	0.44
100	29.8861	29.35 Cadinene<gamma->	39029-41-9	1216521.3	1515		96.70	0.64
101	29.9780	29.41 Cubebol	23445-02-5	868261.7	1518		84.82	0.46
102	30.0722	29.72 Cadinene<delta->	483-76-1	3084134.8	1520		93.49	1.62
105	30.8121	.alpha.-Muurolene	31983-22-9	118218.5	1539		90.71	0.06
106	30.9181	Bisabolene	495-62-5	54516.4	1542	65683	83.30	0.03
108	31.2644	30.78 Elemol	639-99-6	688196.1	1551		94.71	0.36
110	31.7074	31.24 Germacrene B	15423-57-1	300529.2	1562		93.44	0.16
114	32.3930	31.96 Spathulenol	6750-60-3	112121.5	1580		80.85	0.06
115	32.6239	32.16 Caryophyllene oxide	1139-30-6	1516009.4	1586		95.65	0.80
117	33.0905	Longifolene	475-20-7	254438.2	1598		89.85	0.13
119	33.6889	33.20 Humulene epoxide II	19888-34-7	281173.0	1613		82.58	0.15
120	33.8161	37.68 Guaiol acetate	134-28-1	225400.4	1617		85.12	0.12
121	34.1578	Junenol	472-07-1	141227.1	1626		85.96	0.07
122	34.3392	33.60 Cubenol<1,10-di-epi->	73365-77-2	99836.1	1631		79.48	0.05
124	34.8741	.tau.-Cadinol	5937-11-1	928388.0	1645		96.48	0.49
125	35.0484	34.61 Muurolol<alpha-> (=Torreyol)	19435-97-3	68833.9	1650		82.20	0.04
126	35.3712	EUDESMOL ALFA 33.1394	473-16-5	220383.4	1659	1598	88.87	0.12
130	40.2602	.alpha.-Phellandrene, dimer	7350-11-0	67331.5	1795		85.68	0.04