



Essential Oil University

GC/MS Report

Item	Lot
Sandalwood (album) EO <i>Santalum album</i>	5AB
Date	Analyst
11/18/2025	Dr. Robert S. Pappas

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The analysis of this batch sample, Sandalwood (album) EO, meets the expected chemical profile for authentic essential oil of *Santalum album*. No contamination or adulteration was detected. The results provided in this GCMS quality analysis reflect the chemical composition of the oil and lot referenced above on the date of analysis.



Sample Information

Company: Revive**Sample Name:** Sandalwood (album) EO**Botanical Name:** Santalum album**Lot Number:** 5AB**Production Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** India**Analysis Date:** 11/18/2025**Manufacture Date:** September 2025

GC/MS

Inst. ID: Shimadzu GCMS-QP2010Ultra**Injection Type:** Split**Split Ratio:** 24.4**Column Type:** ZB-5**Injection Volume:** 0.1 µL**Temperature Program:** 2C/min

Physical Data

ANALYSIS

Optical Rotation @20°C

Refractive Index @20°C

Specific Gravity @20°C

METHOD

USP[781]

USP[831]

USP[841]

RESULTS

-18.60

1.50585

0.97593



Ret. Time	Component	Ret. Idx.	Conc. %	
10.093	Santene	872	0.02%	
18.317	Limonene	1021	0.01%	ALLERGEN IFRA
27.971	Borneol	1163	0.01%	
28.333	N-Furfurylpyrrole	1168	0.01%	
31.680	Unidentified	1216	0.01%	
34.318	Teresantalic acid	1254	0.02%	
37.339	Unidentified	1298	0%	
39.224	Santalal isomer	1327	0.06%	
40.130	Eugenol	1341	0.01%	ALLERGEN IFRA
40.157	Santalal isomer	1341	0.01%	
41.927	Unidentified	1368	0.02%	
42.544	7-epi-Sesquithujene	1377	0.01%	
43.331	Unidentified	1389	0.01%	
44.175	cis-alpha-Bergamotene	1402	0%	
44.371	alpha-Cedrene	1405	0.01%	IFRA
44.545	alpha-Santalene	1408	0.89%	
45.437	trans-alpha-Bergamotene	1422	0.19%	
46.314	epi-beta-Santalene	1436	0.74%	
46.703	Sesquisabinene	1442	0.01%	
46.875	Unidentified	1445	0.01%	
47.074	beta-Santalene	1448	1.27%	
47.507	alpha-Acoradiene	1455	0.01%	
47.593	beta-Acoradiene	1456	0.01%	
48.221	gamma-Curcumene	1466	0.06%	
48.415	Ar-Curcumene	1469	0.13%	
48.610	trans-beta-Bergamotene	1472	0.04%	
49.115	Unidentified	1481	0.01%	
49.261	Unidentified	1483	0.01%	
50.080	beta-Bisabolene	1496	0.04%	
50.180	beta-Curcumene	1497	0.17%	
50.407	Unidentified	1501	0.01%	
50.676	alpha-Teresantalic acid isomer	1506	0.18%	
51.060	Unidentified	1512	0.01%	
51.210	trans-gamma-Bisabolene	1515	0.01%	
52.126	Ekasantalic acid isomer	1530	0.18%	
52.165	cis-Sesquisabinene hydrate	1531	0.08%	
52.460	Unidentified	1536	0.02%	
52.798	Ekasantalic acid isomer	1541	0.1%	
53.218	Unidentified	1548	0.05%	
53.706	Dendrolasin	1556	0.01%	



Ret. Time	Component	Ret. Idx.	Conc. %	
53.994	Unidentified	1561	0%	
54.326	trans-Sesquisabinene hydrate	1567	0.05%	
54.475	Unidentified	1569	0.01%	
54.540	Unidentified	1570	0.01%	
54.657	Unidentified	1572	0.02%	
55.036	Ekasantalic acid isomer	1579	0.01%	
55.367	Unidentified	1584	0.01%	
55.769	Unidentified	1591	0.03%	
55.860	Unidentified	1593	0.01%	
55.995	Unidentified	1595	0.01%	
56.135	Unidentified	1597	0.01%	
56.262	Unidentified	1599	0.01%	
56.370	Unidentified	1601	0.05%	
56.643	Unidentified	1606	0.01%	
56.831	Cedrol	1609	0.01%	
57.052	Unidentified	1613	0.04%	
57.150	Unidentified	1615	0.01%	
57.301	Unidentified	1618	0.05%	
57.647	alpha-Acorenol	1624	0.08%	
58.485	Unidentified	1639	0.01%	
58.640	Khusilal	1641	0.43%	
58.880	Isoprecyclemonene E	1646	0.05%	
58.949	trans-alpha-Santalal	1647	0.43%	
59.120	Unidentified	1650	0.01%	
59.237	cis-alpha-Santalal	1652	0.13%	
59.429	Unidentified	1655	0.36%	
59.610	Unidentified	1658	0.19%	
59.923	cis-alpha-Santalol	1664	46.77%	ALLERGEN
59.975	trans-alpha- trans-Bergamotal	1665	1.68%	
60.266	Unidentified	1670	0.05%	
60.395	alpha-Bisabolol	1672	0%	
60.590	cis-alpha-trans-Bergamotol	1676	7.69%	
60.818	Unidentified	1680	0.33%	
60.971	trans-alpha-Santalol	1682	0.87%	ALLERGEN
61.350	cis-epi-beta-Santalol	1689	4.03%	ALLERGEN
61.471	Unidentified	1691	0.01%	
61.649	cis-alpha-trans-Bergamotol	1694	0.3%	
62.144	cis-beta-Santalol	1703	22.36%	ALLERGEN
62.240	trans-epi-beta-Santalol	1705	0.6%	ALLERGEN
62.444	cis-Nuciferol	1709	1.02%	



Ret. Time	Component	Ret. Idx.	Conc. %	
62.624	Santalol analogue	1712	0.35%	ALLERGEN
62.889	Unidentified	1717	0.47%	
63.264	cis-beta-Santalol	1724	1.71%	ALLERGEN
63.493	Unidentified	1728	0.81%	
63.591	cis-alpha-trans-Bergamotol	1730	0.37%	
63.764	Unidentified	1733	0.14%	
63.874	trans-alpha-trans-Bergamotol	1735	0.27%	
64.089	trans-Nuciferol	1739	0.45%	
64.221	alpha-Teresantalic acid isomer	1742	0.41%	
64.447	cis-Lanceol	1746	1.83%	
64.731	cis-alpha-trans-Bergamotol isomer	1751	0.2%	
64.940	Unidentified	1755	0.05%	
65.080	Unidentified	1758	0.03%	
65.198	cis-alpha-trans-Bergamotol isomer	1760	0.07%	
65.370	Unidentified	1763	0.03%	
65.488	Unidentified	1765	0.04%	
65.586	Unidentified	1767	0.09%	
65.801	Unidentified	1771	0.02%	
65.936	Unidentified	1774	0.02%	
66.066	Lanceol isomer	1776	0.11%	
66.180	Ekasantalic acid isomer	1778	0.05%	
66.441	Unidentified	1783	0.04%	
66.505	Unidentified	1784	0.01%	
66.884	Unidentified	1791	0.02%	
67.274	Santalol isomer	1799	0.01%	ALLERGEN
67.560	Unidentified	1804	0.02%	
67.663	Unidentified	1806	0.02%	
67.946	Unidentified	1812	0.03%	
68.064	Unidentified	1814	0.02%	
68.305	Unidentified	1819	0.01%	
68.746	Unidentified	1827	0.04%	
69.723	Unidentified	1846	0.01%	
70.195	Unidentified	1855	0.01%	
70.796	Unidentified	1867	0.01%	
72.590	Unidentified	1902	0.01%	
72.905	Unidentified	1909	0.01%	
73.806	Unidentified	1927	0.01%	
74.054	Santalol isomer	1932	0.02%	ALLERGEN
74.462	Unidentified	1941	0.01%	
75.574	Unidentified	1963	0.01%	



Ret. Time	Component	Ret. Idx.	Conc. %
107.377	Unidentified	2729	0.01%

Total Identified Compounds **96.65 %**



TIC
36,015,969

