



Essential Oil University

GC/MS Report

Item	Lot
Sandalwood (album) EO <i>Santalum album</i>	7K
Date	Analyst
6/11/2025	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:** 7K**Production Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** India**Analysis Date:** 6/11/2025**Manufacture Date:** November 2024

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

-19.28

1.50587

0.97526



Ret. Time	Component	Ret. Idx.	Conc. %	
9.733	Santene	878	0.01%	
17.795	Limonene	1027	0.01%	IFRA
27.747	N-Furfuryl pyrrole	1175	0.01%	
31.040	Unidentified	1223	0.01%	
33.733	Teresantalic acid	1262	0.02%	
38.547	Santalal analogue	1334	0.05%	
39.480	Unidentified	1349	0.02%	
41.201	Unidentified	1375	0.02%	
41.846	alpha-Funebrene	1385	0.01%	
43.840	alpha-Santalene	1416	0.94%	
44.729	trans-alpha-Bergamotene	1430	0.19%	
45.600	epi-beta-Santalene	1444	0.78%	
45.989	Unidentified	1450	0.01%	
46.357	beta-Santalene	1456	1.31%	
46.775	Unidentified	1463	0.01%	
47.511	gamma-Curcumene	1475	0.06%	
47.707	Ar-Curcumene	1478	0.11%	
47.888	trans-beta-Bergamotene	1481	0.04%	
48.596	Unidentified	1492	0.01%	
49.373	beta-Bisabolene	1505	0.04%	
49.466	beta-Curcumene	1506	0.17%	
49.695	Unidentified	1510	0.01%	
49.955	alpha-Teresantalic acid	1515	0.2%	
50.330	Unidentified	1521	0.01%	
50.492	Unidentified	1524	0.01%	
51.396	Unidentified isomer I	1539	0.23%	
51.470	Unidentified	1540	0.05%	
52.067	Unidentified isomer I	1550	0.11%	
52.495	Santalal analogue	1557	0.05%	
53.264	Unidentified isomer I	1570	0.01%	
53.596	trans-Sesquisabinene hydrate	1576	0.05%	
53.899	Unidentified	1581	0.01%	
54.305	Unidentified isomer I	1588	0.01%	
54.600	Unidentified	1593	0.01%	
55.008	Unidentified	1600	0.03%	
55.113	Unidentified	1602	0.01%	
55.244	Unidentified	1604	0.02%	
55.390	Unidentified	1607	0.01%	
55.520	Unidentified	1609	0.01%	
55.629	Unidentified	1611	0.05%	



Ret. Time	Component	Ret. Idx.	Conc. %	
56.063	Unidentified	1619	0.01%	
56.321	Unidentified	1623	0.02%	
56.425	Unidentified	1625	0.01%	
56.585	Unidentified	1628	0.04%	
56.898	Unidentified	1633	0.08%	
57.884	Khusilal	1651	0.55%	
58.204	trans-alpha-Santalal	1657	0.44%	
58.496	cis-alpha-Santalal	1662	0.14%	
58.659	Unidentified	1665	0.35%	
58.845	Unidentified	1668	0.12%	
59.200	cis-alpha-Santalol	1674	48.53%	
59.250	trans-alpha-trans-Bergamotal	1675	0.94%	
59.501	Unidentified	1680	0.21%	
59.865	cis-alpha-trans-Bergamotol	1686	7.68%	
60.076	Unidentified	1690	0.3%	
60.231	trans-alpha-Santalol	1693	0.79%	
60.610	cis-epi-beta-Santalol	1699	3.76%	
60.717	Unidentified	1701	0.01%	
60.914	trans-alpha-trans-Bergamotol	1705	0.3%	
61.412	cis-beta-Santalol	1714	22.99%	
61.480	trans-epi-beta-Santalol	1716	0.48%	
61.704	cis-Nuciferol	1720	0.88%	
61.877	Santalol isomer	1723	0.28%	
62.132	Unidentified	1728	0.34%	
62.517	trans-beta-Santalol	1735	1.62%	
62.746	Unidentified	1739	0.69%	
62.841	Unidentified	1741	0.37%	
63.027	Unidentified	1744	0.1%	
63.127	Unidentified	1746	0.19%	
63.346	trans-Nuciferol	1750	0.4%	
63.466	Unidentified isomer I	1753	0.36%	
63.705	cis-Lanceol	1757	1.77%	
63.977	Unidentified	1762	0.08%	
64.450	cis-alpha-trans-Bergamotol analogue	1771	0.04%	
64.735	Unidentified	1776	0.02%	
64.845	cis-alpha-trans-Bergamotol analogue	1778	0.06%	
65.320	Lanceol isomer	1787	0.1%	
65.419	Unidentified isomer I	1789	0.03%	
65.669	Unidentified	1794	0.03%	
66.092	Unidentified	1802	0.01%	



Ret. Time	Component	Ret. Idx.	Conc. %	
66.513	Unidentified	1810	0.01%	
66.800	Unidentified	1816	0.01%	
66.916	Unidentified	1818	0.02%	
67.160	Unidentified	1823	0.03%	
67.309	Unidentified	1826	0.02%	
67.980	Unidentified	1839	0.04%	
68.941	Unidentified	1858	0.01%	
69.434	Unidentified	1867	0.01%	
71.797	Unidentified	1914	0.01%	
73.302	Santalol isomer	1945	0.03%	
106.370	Unidentified isomer I	2745	0.01%	

Total Identified Compounds **95.83 %**

