



Sample & Analysis Information

Sample Information

Sample Name: Amyris Essential Oil**Botanical Name:** Amyris balsamifera**Lot Number:** 13171**Production Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** Haiti, Dominican Republic**Analysis Date:** 12/16/2024**Manufacture Date:** December 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

+23.56

1.50533

0.95561

Ret. Time	Component	Ret. Idx.	Conc. %	
17.590	Limonene	1028	0.01%	IFRA
28.475	Methyl salicylate	1190	0.02%	
35.913	Unidentified	1299	0.01%	
39.456	Unidentified	1353	0.09%	
39.925	Unidentified	1361	0.01%	
40.034	Unidentified	1362	0.07%	
40.450	Unidentified	1369	0.06%	
41.174	Unidentified	1380	0.01%	
41.481	Unidentified	1384	0.13%	
41.665	beta-Elemene	1387	0.22%	
41.872	cis-beta-Caryophyllene	1390	0.05%	
42.051	Unidentified	1393	0.02%	
42.548	Unidentified	1401	0.13%	
42.710	Unidentified	1403	0.01%	
42.866	Unidentified	1406	0.09%	
43.102	alpha-Dihydroionone	1410	0.03%	
43.339	alpha-Cedrene	1413	0.04%	IFRA
43.545	beta-Caryophyllene	1417	0.09%	
43.678	Unidentified	1419	0.03%	
43.929	Unidentified	1423	0.16%	
44.110	Unidentified	1426	0.04%	
44.186	gamma-Elemene	1427	0.09%	
44.424	trans-alpha-Bergamotene	1431	0.05%	
44.523	Unidentified	1432	0.04%	
44.996	Unidentified	1440	0.04%	
45.342	Unidentified	1446	0.12%	
45.447	Amorpha-4,11-diene	1447	0.65%	
45.738	Unidentified	1452	0.26%	
45.939	beta-Acoradiene	1455	2.22%	
46.010	Unidentified	1456	0.22%	
46.180	Unidentified	1459	0.01%	
46.244	Unidentified	1460	0.02%	
46.340	Unidentified	1462	0.01%	
46.547	Unidentified	1465	0.1%	
46.708	Unidentified	1467	0.06%	
46.920	Unidentified	1471	0.81%	
47.120	Unidentified	1474	0.57%	
47.215	gamma-Curcumene	1476	1.04%	
47.419	Ar-Curcumene	1479	2.32%	
47.564	Selina-4,11-diene	1481	0.5%	

Ret. Time	Component	Ret. Idx.	Conc. %	
47.778	delta-Selinene	1485	0.19%	
47.885	beta-Selinene	1486	0.47%	
48.110	Valencene	1490	1.52%	
48.284	alpha-Zingiberene	1493	3.24%	
48.523	Unidentified	1497	0.04%	
48.691	Unidentified	1499	0.07%	
48.873	Dihydroagarofuran isomer	1502	0.83%	
49.059	beta-Bisabolene	1505	1.88%	
49.120	Dihydroagarofuran isomer	1506	0.36%	
49.270	Unidentified	1509	0.17%	
49.406	Unidentified	1511	0.08%	
49.580	Unidentified	1514	0.01%	
49.719	7-epi-alpha-Selinene	1517	0.95%	
50.026	beta-Sesquiphellandrene	1522	3.33%	
50.302	Unidentified	1526	0.03%	
50.513	Unidentified	1530	0.66%	
50.662	Unidentified	1532	0.22%	
50.772	Selina-4(15),7(11)-diene	1534	0.32%	
51.058	Selina-3,7(11)-diene	1539	2.37%	
51.482	alpha-Elemol	1546	8.81%	
51.595	Unidentified	1548	0.16%	
51.738	Unidentified	1551	0.07%	
52.206	trans-Nerolidol	1559	0.59%	
52.206	alpha-Elemol	1559	0.61%	
52.752	Unidentified	1568	0.05%	
53.054	Unidentified	1573	0.1%	
53.314	Unidentified	1577	0.01%	
53.426	Unidentified	1579	0.02%	
53.575	Unidentified	1582	0.01%	
53.661	Unidentified	1583	0.02%	
53.736	Unidentified	1584	0.04%	
53.849	Unidentified	1586	0.05%	
54.316	Unidentified	1594	0.07%	
54.463	Unidentified	1597	0.06%	
54.589	Unidentified	1599	0.04%	
54.862	5-epi-7-epi-alpha-Eudesmol	1604	1.27%	
55.132	Unidentified	1608	0.17%	
55.319	Unidentified	1612	0.15%	
55.489	Unidentified	1615	0.12%	
55.764	10-epi-gamma-Eudesmol	1620	4.72%	

Ret. Time	Component	Ret. Idx.	Conc. %	
55.910	Guaiol	1622	1.17%	
56.225	Eremoligenol isomer	1628	0.33%	
56.347	gamma-Eudesmol	1630	8.83%	
56.776	Unidentified	1638	0.44%	
57.027	Unidentified	1642	0.35%	
57.126	Unidentified	1644	0.84%	
57.277	Unidentified	1647	0.29%	
57.624	Valerianol	1653	21.13%	
57.695	beta-Eudesmol	1654	1.34%	
57.703	alpha-Eudesmol	1654	4.01%	
57.865	Dihydroagarofuran isomer	1657	0.52%	
57.990	7-epi-alpha-Eudesmol	1659	4.79%	
58.155	Unidentified	1662	0.2%	
58.399	Unidentified	1667	0.16%	
58.612	Unidentified	1670	0.1%	
58.781	Unidentified	1673	0.11%	
58.917	Unidentified	1676	0.39%	
58.999	Unidentified	1677	0.36%	
59.329	Unidentified	1683	0.14%	
59.431	Unidentified	1685	0.22%	
59.817	Unidentified	1692	0.28%	
59.994	beta-Caryophyllene acetate isomer I	1695	4.26%	
60.218	Unidentified	1699	0.09%	
60.360	Unidentified	1702	0.05%	
60.634	Unidentified	1707	0.42%	
60.817	Unidentified	1710	0.09%	
60.931	Farnesol isomer	1712	0.09%	IFRA
61.052	Unidentified	1714	0.05%	
61.257	Unidentified	1718	0.1%	
61.430	Unidentified	1722	0.03%	
61.645	Unidentified	1726	0.07%	
61.876	Unidentified	1730	0.08%	
62.054	Unidentified	1733	0.34%	
62.156	Caryophyllene acetate isomer II	1735	0.11%	
62.410	Unidentified	1740	0.58%	
62.485	Unidentified	1741	0.12%	
62.610	Cresol isomer	1744	0.01%	
62.877	Unidentified	1749	0.28%	
63.043	Unidentified	1752	0.02%	
63.463	Unidentified	1760	0.05%	

Ret. Time	Component	Ret. Idx.	Conc. %	
63.807	Drimenol	1766	2.25%	
64.047	Unidentified	1771	0.03%	
64.228	Unidentified	1774	0.02%	
64.510	Unidentified	1779	0.13%	
64.660	Unidentified	1782	0.01%	
65.120	Unidentified	1791	0.01%	
65.270	Unidentified	1793	0.04%	
65.543	Unidentified	1799	0.02%	
65.804	Unidentified	1804	0.01%	
66.156	Unidentified	1810	0.02%	
66.260	Unidentified	1813	0.01%	
66.436	Unidentified	1816	0.02%	
66.580	Unidentified	1819	0.01%	
66.984	Unidentified	1827	0.02%	
67.150	Unidentified	1830	0.01%	
67.340	Unidentified	1834	0.02%	
67.656	Unidentified	1840	0.02%	
67.840	Unidentified	1844	0.01%	
68.586	Unidentified	1858	0.03%	
68.864	Unidentified	1864	0.01%	
69.321	Unidentified	1873	0.1%	
71.526	Unidentified	1917	0.01%	
71.793	Unidentified	1922	0.01%	
74.337	Unidentified	1975	0.01%	

Total Identified Compounds **87.63 %**

