



Essential Oil University

GC/MS Report

Item	Lot
Myrrh EO <i>Commiphora myrrha</i>	8AC
Date	Analyst
1/15/2025	Dr. Robert S. Pappas

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The analysis of this batch sample, Myrrh EO, meets the expected chemical profile for authentic essential oil of *Commiphora myrrha*. 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:** Myrrh EO**Botanical Name:** Commiphora myrrha**Lot Number:** 8AC**Production Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** Ethiopia, Somalia**Analysis Date:** 1/15/2025**Manufacture Date:** October 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

-112.20

1.52642

1.01266



Ret. Time	Component	Ret. Idx.	Conc. %	
2.960	Ethanol	541	0.04%	
17.818	Limonene	1027	0.01%	IFRA
17.981	1,8-Cineole	1029	0.02%	
18.886	trans-beta-Ocimene	1043	0.03%	
38.197	Elemene isomer	1329	0.03%	
38.431	delta-Elemene	1333	0.7%	
39.200	alpha-Cubebene	1344	0.02%	
40.652	Unidentified	1367	0.01%	
41.072	alpha-Copaene	1373	0.07%	
41.489	Elemene isomer	1379	0.06%	
41.587	beta-Bourbonene	1381	0.28%	
41.777	alpha-Bourbonene	1384	0.03%	
41.984	beta-Elemene	1387	3.57%	
42.818	Cyperene	1400	0.03%	
43.477	Unidentified	1410	0.01%	
43.859	beta-Caryophyllene	1416	0.52%	
44.500	gamma-Elemene	1426	1.19%	
44.723	trans-alpha-Bergamotene	1430	0.02%	
45.412	Isogermacrene D	1441	0.06%	
45.722	Unidentified	1446	0.02%	
46.108	alpha-Humulene	1452	0.19%	
46.386	Alloaromodendrene	1457	0.05%	
46.502	Unidentified	1459	0.03%	
46.766	Unidentified	1463	0.02%	
46.913	Unidentified	1465	0.02%	
47.016	4,5-di-epi-Aristolochene	1467	0.04%	
47.225	Selina-4,11-diene	1470	0.1%	
47.333	gamma-Murolene	1472	0.13%	
47.451	Unidentified	1474	0.03%	
47.620	Unidentified	1476	0.04%	
47.707	Germacrene D	1478	1.11%	
48.125	Unidentified	1485	0.07%	
48.194	beta-Selinene	1486	0.57%	
48.350	Unidentified	1488	0.02%	
48.609	Curzerene	1492	22.88%	
48.670	alpha-Selinene	1493	0.17%	
48.820	alpha-Murolene	1496	0.09%	
48.928	alpha-Bisabolene	1497	0.09%	
49.092	Unidentified	1500	0.2%	
49.230	Unidentified	1502	0.02%	



Ret. Time	Component	Ret. Idx.	Conc. %	
49.355	beta-Bisabolene	1504	0.02%	
49.674	gamma-Cadinene	1510	0.3%	
49.785	Unidentified	1512	0.02%	
49.982	delta-Cadinene	1515	0.23%	
50.318	Unidentified	1521	0.03%	
50.819	Unidentified	1529	0.03%	
51.076	Selina-4(15),7(11)-diene	1533	0.1%	
51.355	Selina-3,7(11)-diene	1538	0.13%	
51.574	Unidentified	1542	0.01%	
51.745	alpha-Elemol	1545	0.13%	
52.377	Germacrene B	1555	2.01%	
52.903	Unidentified	1564	0.01%	
53.410	Unidentified	1573	0.66%	
53.724	Caryophyllene oxide	1578	0.03%	
54.137	Unidentified	1585	0.04%	
54.360	Unidentified	1589	0.02%	
54.539	Unidentified	1592	0.06%	
54.694	beta-Elementone	1594	0.1%	
54.803	Curzerenone	1596	0.13%	
55.025	Unidentified	1600	0.02%	
55.255	Unidentified	1604	0.01%	
55.336	Humulene epoxide II	1606	0.02%	
55.490	Unidentified	1608	0.02%	
55.681	1,10-di-epi-Cubenol	1612	0.1%	
55.804	Unidentified	1614	0.04%	
56.090	Unidentified	1619	0.03%	
56.408	Furanoeudesma-1,3-diene	1625	33.9%	
56.645	Curzerene analogue	1629	0.03%	
56.833	Lindestrene	1632	12.28%	
57.010	Unidentified	1635	0.03%	
57.198	epi-alpha-Cadinol	1639	1.04%	
57.450	tau-Cadinol	1643	0.03%	
57.590	Unidentified	1646	0.02%	
57.870	Unidentified	1651	0.4%	
58.095	Selin-11-en-4-alpha-ol	1655	0.22%	
58.210	Furanodiene	1657	0.32%	
58.237	Unidentified	1657	0.46%	
58.421	Germacrone analogue	1660	0.05%	
58.642	Intermedeol	1664	1.9%	
58.861	Unidentified	1668	0.04%	



Ret. Time	Component	Ret. Idx.	Conc. %	
58.990	Unidentified	1671	0.04%	
59.263	Unidentified	1675	0.05%	
59.468	2-Methoxyfuranodiene A	1679	0.93%	
60.022	Germacrone	1689	0.71%	
60.335	Unidentified	1695	0.08%	
60.447	2-Methoxyfuranodiene isomer	1697	0.05%	
60.673	Unidentified	1701	0.01%	
60.860	Unidentified	1704	0.05%	
61.154	2-Methoxyfuranodiene B	1710	7.54%	
61.278	Unidentified	1712	0.12%	
61.643	Unidentified	1719	0.05%	
61.753	Unidentified	1721	0.06%	
62.161	Unidentified	1728	0.01%	
62.397	Unidentified	1733	0.02%	
62.590	Unidentified	1736	0.01%	
62.752	Unidentified	1739	0.03%	
62.932	Unidentified	1743	0.03%	
63.050	Unidentified	1745	0.02%	
63.340	Unidentified	1750	0.05%	
63.480	Unidentified	1753	0.05%	
63.865	Unidentified	1760	0.03%	
64.093	Unidentified	1764	0.1%	
64.230	Unidentified	1767	0.04%	
64.373	Unidentified	1770	0.02%	
64.674	Unidentified	1775	0.01%	
64.873	Eudesmol analogue	1779	0.32%	
65.030	Unidentified	1782	0.01%	
66.066	Unidentified isomer I	1801	0.01%	
66.202	Unidentified	1804	0.01%	
66.466	Unidentified	1809	0.03%	
66.747	Unidentified isomer II	1815	0.02%	
66.856	Unidentified	1817	0.03%	
67.169	2-Acetoxyfuranodiene isomer	1823	0.1%	
67.326	Unidentified isomer II	1826	0.08%	
67.449	Unidentified	1828	0.04%	
67.531	Unidentified isomer I	1830	0.09%	
67.940	Unidentified	1838	0.09%	
68.250	Unidentified	1844	0.02%	
69.178	Unidentified	1862	0.03%	
69.330	Unidentified	1865	0.01%	



Ret. Time	Component	Ret. Idx.	Conc. %	
69.507	Unidentified	1869	0.01%	
69.650	Unidentified	1872	0.02%	
69.832	2-Acetoxyfuranodiene	1875	0.66%	
70.077	Unidentified	1880	0.04%	
70.217	Unidentified	1883	0.04%	
70.410	Unidentified isomer III	1886	0.02%	
70.793	2-Hydroxyfuranodiene analogue	1894	0.08%	
71.145	Unidentified	1901	0.08%	
72.269	2-Hydroxyfuranodiene	1924	0.13%	
74.231	Unidentified	1964	0.15%	
75.801	Unidentified isomer III	1997	0.1%	
76.177	Unidentified isomer III	2005	0.01%	
76.676	Unidentified isomer III	2015	0.03%	
79.783	Unidentified	2082	0.02%	

Total Identified Compounds **95.69 %**

