



Essential Oil University

GC/MS Report

Item	Lot
Bay Leaf (Laurel Leaf) EO <i>Laurus nobilis</i>	2F
Date	Analyst
10/24/2025	Dr. Robert S. Pappas

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The analysis of this batch sample, Bay Leaf (Laurel Leaf) EO, meets the expected chemical profile for authentic essential oil of *Laurus nobilis*. 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:** Bay Leaf (Laurel Leaf) EO**Botanical Name:** Laurus nobilis**Lot Number:** 2F**Production Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** Greece**Analysis Date:** 10/24/2025**Manufacture Date:** May 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

-11.84

1.47053

0.92119



Ret. Time	Component	Ret. Idx.	Conc. %	
4.498	2-Ethylfuran	700	0%	
4.837	3-Methyl-1-penten-3-ol	716	0%	
5.078	3-Methyl-1-butanol	727	0.01%	
5.167	Methyl pyrrole	732	0.01%	
5.527	Ethyl isobutyrate	749	0.01%	
5.813	Toluene	762	0%	
6.440	Isopropyl isobutyrate	792	0.01%	
6.616	Hexanal	800	0.02%	
7.890	Isopropyl butyrate	834	0%	
8.100	1-Methylbutyl acetate	840	0%	
8.179	Ethyl 2-methylbutyrate	842	0.02%	
8.347	Ethyl isovalerate	846	0.02%	
8.437	Hex-(2E)-enal	849	0.02%	IFRA
8.455	Hex-(3Z)-enol	849	0.01%	
9.655	Isopropyl 2-methylbutyrate	881	0.01%	
10.349	2-Heptanol	900	0.02%	
10.959	Isobutyl isobutyrate	911	0.02%	
11.357	Hashishene	918	0%	
11.469	Tricyclene	920	0.01%	
11.620	alpha-Thujene	923	0.14%	
12.026	alpha-Pinene	931	5.36%	ALLERGEN
12.544	Thuja-2,4(10)diene	940	0.01%	
12.807	alpha-Fenchene	945	0.02%	
12.902	Camphene	947	0.23%	
13.115	Unidentified	951	0.01%	
14.162	Sabinene	970	6.32%	
14.452	beta-Pinene	975	3.04%	ALLERGEN
15.071	Myrcene	987	0.42%	PROP. 65
15.833	Isobutyl 2-methylbutyrate	1001	0.05%	
15.971	Pseudolimonene	1003	0.02%	
16.035	Unidentified	1004	0.01%	
16.113	alpha-Phellandrene	1005	0.27%	
16.258	delta-3-Carene	1007	0.02%	
16.767	alpha-Terpinene	1015	0.4%	ALLERGEN
16.934	ortho-Cymene	1018	0.01%	
17.254	para-Cymene	1022	1.67%	
17.561	Limonene	1027	2.56%	ALLERGEN IFRA
17.655	beta-Phellandrene	1029	0.08%	
17.793	1,8-Cineole	1031	38.73%	
17.939	cis-beta-Ocimene	1033	0.09%	



Ret. Time	Component	Ret. Idx.	Conc. %	
18.611	trans-beta-Ocimene	1043	0.11%	
19.389	gamma-Terpinene	1055	1.22%	
20.166	trans-Sabinene hydrate	1067	0.03%	
21.174	Terpinolene	1083	0.13%	ALLERGEN
21.521	2-Nonanone	1088	0.04%	
22.168	Linalool	1098	8.25%	ALLERGEN IFRA
22.363	Hotrienol	1101	0.02%	
23.444	endo-Fenchol	1117	0%	
23.803	cis-para-Menth-2-en-1-ol	1122	0.01%	
24.904	trans-Pinocarveol	1138	0.04%	
25.021	trans-para-Menth-2-en-1-ol	1140	0.01%	
25.675	Unidentified	1149	0.01%	
25.942	Unidentified	1153	0%	
26.383	Pinocarvone	1160	0.01%	
26.939	delta-Terpineol	1168	0.07%	ALLERGEN
27.041	Borneol	1169	0.03%	
27.658	Terpinen-4-ol	1178	2.51%	
28.100	Unidentified	1185	0.02%	
28.426	Myrtenol	1189	0.01%	
28.664	alpha-Terpineol	1193	2.42%	ALLERGEN
28.862	Estragole	1196	0.13%	PROP. 65 IFRA
30.629	Nerol	1222	0.13%	
30.800	Unidentified	1224	0.01%	
30.973	Unidentified	1227	0.01%	
32.362	Linalyl acetate	1247	0.09%	ALLERGEN
32.657	Unidentified	1252	0.01%	
32.832	2-Undecanone	1254	0.01%	
33.700	Unidentified	1267	0.01%	
34.686	Bornyl acetate	1281	0.7%	
34.855	Unidentified	1284	0.01%	
35.285	2-Undecanone	1290	0.07%	
35.460	Unidentified	1293	0.01%	
36.620	delta-Terpinyl acetate	1310	0.13%	
37.165	Unidentified	1319	0.01%	
38.233	Unidentified	1335	0.02%	
38.504	Myrcen-8-yl acetate	1339	0.01%	
38.874	alpha-Terpinyl acetate	1345	15.25%	
39.145	Eugenol	1349	1.93%	ALLERGEN IFRA
39.606	Neryl acetate	1356	0.07%	
40.290	alpha-Ylangene	1366	0.02%	



Ret. Time	Component	Ret. Idx.	Conc. %	
40.704	alpha-Copaene	1373	0.01%	
41.604	beta-Elemene	1386	0.07%	
42.330	Methyleugenol	1397	6.05%	PROP. 65 IFRA
43.491	beta-Caryophyllene	1416	0.29%	ALLERGEN
44.483	alpha-Guaiene	1432	0.01%	
45.116	trans-Cinnamyl acetate	1442	0.03%	
45.349	Unidentified	1446	0.01%	
45.737	alpha-Humulene	1452	0.04%	
45.902	Unidentified	1454	0.01%	
45.995	Unidentified	1456	0%	
47.323	Germacrene D	1477	0.01%	
47.811	beta-Selinene	1485	0.02%	
47.966	Unidentified	1488	0.01%	
48.225	cis-Methyl isoeugenol	1492	0.09%	
49.286	gamma-Cadinene	1509	0.02%	
49.599	delta-Cadinene	1515	0.04%	
50.937	trans-alpha-Bisabolene	1537	0.02%	
53.030	Spathulenol	1573	0.01%	
53.344	Caryophyllene oxide	1578	0.03%	
57.526	alpha-Eudesmol	1651	0.01%	

Total Identified Compounds **99.83 %**



TIC
18,370,168

