



Essential Oil University

GC/MS Report

Item	Lot
Cinnamon Bark EO <i>Cinnamomum zeylanicum</i>	3L
Date	Analyst
12/5/2024	Dr. Robert S. Pappas

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The analysis of this batch sample, Cinnamon Bark EO, meets the expected chemical profile for authentic essential oil of *Cinnamomum zeylanicum*. 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:** Cinnamon Bark EO**Botanical Name:** Cinnamomum zeylanicum**Lot Number:** 3L**Production Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** Sri Lanka**Analysis Date:** 12/5/2024**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

+4.40

1.58467

1.01836



Ret. Time	Component	Ret. Idx.	Conc. %	
10.028	Styrene	891	0.01%	
11.517	Tricyclene	921	0.04%	
11.663	alpha-Thujene	924	0.14%	
12.070	alpha-Pinene	931	3.78%	
12.856	alpha-Fenchene	946	0.01%	
12.951	Camphene	948	0.34%	
13.594	Benzaldehyde	959	0.08%	IFRA
14.200	Sabinene	971	0.01%	
14.498	beta-Pinene	976	0.45%	
15.123	Myrcene	988	0.06%	
16.176	alpha-Phellandrene	1006	1.9%	
16.314	delta-3-Carene	1008	0.07%	
16.825	alpha-Terpinene	1016	0.89%	
16.984	ortho-Cymene	1018	0.02%	
17.304	para-Cymene	1023	0.92%	
17.603	Limonene	1028	2.39%	IFRA
17.701	beta-Phellandrene	1029	0.62%	
17.776	1,8-Cineole	1031	2.12%	
17.992	cis-beta-Ocimene	1034	0.01%	
18.301	Butyl 2-Methylbutyrate	1039	0%	
18.672	trans-beta-Ocimene	1044	0.02%	
19.453	gamma-Terpinene	1056	0.02%	
20.240	cis-Linalool oxide (furanoid)	1069	0.01%	
20.977	Isoterpinolene	1080	0%	
21.243	Terpinolene	1084	0.05%	
21.295	trans-Linalool oxide (furanoid)	1085	0.01%	
21.564	para-Cymenene	1089	0.01%	
22.213	Linalool	1099	4.12%	IFRA
22.418	2-Methylbutyl-2-methylbutyrate	1102	0.03%	
22.983	Phenylethyl alcohol	1110	0.04%	
25.415	Camphor	1146	0.01%	
26.443	Benzenepropanal	1161	0.05%	
27.119	Borneol	1170	0.02%	
27.280	Unidentified	1173	0.01%	
27.721	Terpinen-4-ol	1179	0.08%	
28.155	para-Cymen-8-ol	1185	0.01%	
28.723	alpha-Terpineol	1194	0.14%	
29.269	alpha-Phellandrene epoxide	1202	0.02%	
30.313	cis-Cinnamaldehyde	1217	0.32%	IFRA
31.060	Hydrocinnamyl alcohol	1228	0.07%	



Ret. Time	Component	Ret. Idx.	Conc. %	
31.630	2-Methoxybenzaldehyde	1236	0.03%	
32.475	Geraniol	1249	0.01%	IFRA
34.314	trans-Cinnamaldehyde	1276	67.83%	IFRA
35.173	Safrole	1289	0.26%	
35.722	Carvacrol	1297	0.01%	
36.234	trans-Cinnamyl alcohol	1304	0.01%	IFRA
37.133	Unidentified	1318	0.01%	
38.452	Methyl anthranilate	1338	0.01%	
39.244	Eugenol	1350	4.12%	IFRA
40.316	Hydrocinnamyl alcohol	1367	0.02%	
40.796	alpha-Copaene	1374	0.17%	
41.552	cis-Cinnamyl acetate	1385	0.01%	
42.644	cis-beta-Caryophyllene	1402	0.02%	
43.596	beta-Caryophyllene	1418	2.99%	
44.760	alpha-Guaiene	1436	0.01%	
45.226	trans-Cinnamyl acetate	1444	4.38%	
45.687	Unidentified	1451	0.02%	
45.831	alpha-Humulene	1453	0.2%	
47.045	trans-Cadina-1(6),4-diene	1473	0.02%	
47.430	Ar-Curcumene	1479	0.02%	
48.036	Viridiflorene	1489	0.01%	
48.331	alpha-Selinene	1493	0.01%	
48.505	alpha-Muurolene	1496	0.02%	
49.082	beta-Bisabolene	1506	0.05%	
49.438	Eugenyl acetate	1512	0.16%	
49.688	delta-Cadinene	1516	0.07%	
49.877	cis-Calamenene	1519	0.01%	
50.206	Unidentified	1525	0.03%	
50.533	trans-Cadina-1,4-diene	1530	0.01%	
50.784	alpha-Cadinene	1535	0.01%	
51.033	Unidentified	1539	0.04%	
53.059	Caryophyllene alcohol	1573	0.02%	
53.435	Caryophyllene oxide	1579	0.16%	
55.047	Humulene epoxide II	1607	0.02%	
55.320	Tetradecanal	1612	0.04%	
57.645	Viridiflorol	1653	0.01%	
58.470	14-Hydroxy-9-epi-(E)-Caryophyllene	1668	0.02%	
63.677	Benzyl benzoate	1764	0.22%	IFRA
73.409	Hexadecanoic acid	1956	0.04%	
80.719	Unidentified	2111	0.01%	



Ret. Time	Component	Ret. Idx.	Conc. %
89.151	3-Phenylpropyl cinnamate	2306	0.01%

Total Identified Compounds **99.9 %**

