



Essential Oil University

GC/MS Report

Item	Lot
Cinnamon Bark EO <i>Cinnamomum zeylanicum</i>	1K
Date	Analyst
3/14/2025	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:** 1K**Production Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** Sri Lanka**Analysis Date:** 3/14/2025**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

+4.36

1.58463

1.01843



Ret. Time	Component	Ret. Idx.	Conc. %	
10.034	Styrene	891	0.01%	
11.510	Tricyclene	921	0.04%	
11.659	alpha-Thujene	924	0.13%	
12.061	alpha-Pinene	931	3.61%	
12.850	alpha-Fenchene	946	0.01%	
12.942	Camphene	947	0.37%	
13.594	Benzaldehyde	959	0.06%	IFRA
14.194	Sabinene	971	0.01%	
14.487	beta-Pinene	976	0.42%	
15.116	Myrcene	987	0.05%	
16.161	alpha-Phellandrene	1006	1.82%	
16.302	delta-3-Carene	1008	0.07%	
16.811	alpha-Terpinene	1016	0.81%	
16.974	ortho-Cymene	1018	0.02%	
17.292	para-Cymene	1023	0.9%	
17.590	Limonene	1028	2.25%	IFRA
17.689	beta-Phellandrene	1029	0.62%	
17.763	1,8-Cineole	1030	1.98%	
17.991	cis-beta-Ocimene	1034	0.01%	
18.659	trans-beta-Ocimene	1044	0.01%	
19.438	gamma-Terpinene	1056	0.02%	
20.228	cis-Linalool oxide (furanoid)	1068	0.01%	
20.968	Isoterpinolene	1080	0%	
21.225	Terpinolene	1084	0.05%	
21.553	para-Cymenene	1089	0.01%	
22.185	Linalool	1098	3.84%	IFRA
22.401	2-Methylbutyl-2-methylbutyrate	1102	0.03%	
22.982	Phenethyl alcohol	1110	0.02%	
25.389	Camphor	1145	0.01%	
26.430	Hydrocinnamaldehyde	1160	0.05%	
27.093	Borneol	1170	0.02%	
27.699	Terpinen-4-ol	1179	0.07%	
28.143	para-Cymen-8-ol	1185	0.01%	
28.701	alpha-Terpineol	1193	0.13%	
29.241	alpha-Phellandrene epoxide	1201	0.02%	
30.291	cis-Cinnamaldehyde	1217	0.27%	IFRA
31.042	Hydrocinnamic alcohol	1228	0.05%	
31.608	ortho-Anisaldehyde	1236	0.03%	IFRA
32.722	2-Phenethyl acetate	1252	0.01%	
34.244	trans-Cinnamaldehyde	1275	69.15%	IFRA



Ret. Time	Component	Ret. Idx.	Conc. %	
35.136	Safrole	1288	0.25%	
35.692	Carvacrol	1296	0.02%	
39.205	Eugenol	1350	3.98%	IFRA
40.291	Hydrocinnamyl acetate	1366	0.02%	
40.767	alpha-Copaene	1373	0.18%	
41.535	Unidentified	1385	0.01%	
42.615	cis-beta-Caryophyllene	1402	0.02%	
43.564	beta-Caryophyllene	1417	2.98%	
44.737	Unidentified	1436	0.01%	
45.187	trans-Cinnamyl acetate	1443	4.45%	
45.655	Unidentified	1451	0.01%	
45.797	alpha-Humulene	1453	0.2%	
46.068	Alloaromodendrene	1457	0.01%	
47.020	trans-Cadina-1(6),4-diene	1472	0.02%	
47.404	Ar-Curcumene	1479	0.01%	
48.010	Viridiflorene	1488	0.01%	
48.477	alpha-Muurolene	1496	0.02%	
49.056	beta-Bisabolene	1505	0.04%	
49.411	Eugenyl acetate	1511	0.16%	
49.660	delta-Cadinene	1516	0.07%	
49.850	cis-Calamenene	1519	0.01%	
50.179	Unidentified	1524	0.03%	
50.750	Unidentified	1534	0.01%	
51.010	Unidentified	1538	0.03%	
53.409	Caryophyllene oxide	1579	0.16%	
55.028	Humulene epoxide II	1607	0.01%	
55.296	Tetradecanal	1611	0.03%	
57.615	Unidentified	1653	0.01%	
63.653	Benzyl benzoate	1763	0.2%	IFRA

Total Identified Compounds **99.85 %**

