



Essential Oil University

GC/MS Report

Item	Lot
Cinnamon Bark EO, Pure & Natural <i>Cinnamomum zeylanicum</i>	3B
Date	Analyst
8/29/2025	Dr. Robert S. Pappas

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The analysis of this batch sample, Cinnamon Bark EO, Pure & Natural, 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 Type:** EO - Single**Sample Name:** Cinnamon Bark EO, Pure & Natural**Country of Origin:** Sri Lanka**Botanical Name:** Cinnamomum zeylanicum**Analysis Date:** 8/29/2025**Lot Number:** 3B**Manufacture Date:** June 2025**Production Method:** Steam distilled

GC/MS

Inst. ID: Shimadzu GCMS-QP2010Ultra**Column Type:** ZB-5**Injection Type:** Split**Injection Volume:** 0.1 µL**Split Ratio:** 24.4**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

+4.28

1.58474

1.01883



Ret. Time	Component	Ret. Idx.	Conc. %	
10.617	Styrene	885	0.01%	
12.073	Hashishene	915	0%	
12.193	Tricyclene	917	0.05%	
12.344	alpha-Thujene	919	0.12%	
12.767	alpha-Pinene	927	4.09%	
13.585	alpha-Fenchene	941	0.02%	
13.685	Camphene	943	0.46%	
14.325	Benzaldehyde	954	0.07%	IFRA
14.969	Sabinene	966	0.01%	
15.280	beta-Pinene	971	0.51%	
15.909	Myrcene	982	0.06%	
16.994	alpha-Phellandrene	1001	1.99%	
17.141	delta-3-Carene	1003	0.09%	
17.660	alpha-Terpinene	1011	0.98%	
17.813	ortho-Cymene	1013	0.02%	
18.144	para-Cymene	1018	1.12%	
18.458	Limonene	1023	2.75%	IFRA
18.563	beta-Phellandrene	1025	0.74%	
18.649	1,8-Cineole	1026	2.42%	
18.845	cis-beta-Ocimene	1029	0.02%	
19.185	Butyl 2-methylbutyrate	1034	0.01%	
19.539	trans-beta-Ocimene	1039	0.02%	
20.343	gamma-Terpinene	1051	0.02%	
21.170	cis-Linalool oxide (furanoid)	1064	0.02%	
21.904	Isoterpinolene	1075	0.01%	
22.170	Terpinolene	1079	0.04%	
22.242	trans-Linalool oxide (furanoid)	1080	0.02%	
22.484	para-Cymenene	1084	0.01%	
23.136	Linalool	1093	4.43%	IFRA
23.361	2-Methylbutyl-2-methylbutyrate	1097	0.03%	
23.925	Phenylethyl alcohol	1105	0.04%	
26.415	Camphor	1141	0.01%	
27.416	Hydrocinnamaldehyde	1155	0.05%	
28.131	Borneol	1165	0.02%	
28.286	Unidentified	1167	0.01%	
28.736	Terpinen-4-ol	1174	0.08%	
29.155	para-Cymen-8-ol	1180	0.02%	
29.736	alpha-Terpineol	1188	0.15%	
30.284	alpha-Phellandrene epoxide	1196	0.02%	
31.316	cis-Cinnamaldehyde	1211	0.41%	IFRA



Ret. Time	Component	Ret. Idx.	Conc. %	
32.076	Hydrocinnamyl alcohol	1222	0.05%	
32.626	ortho-Anisaldehyde	1230	0.1%	IFRA
33.765	Unidentified	1246	0.02%	
33.905	Unidentified	1248	0.01%	
35.343	trans-Cinnamaldehyde	1269	64.1%	IFRA
36.223	Safrole	1282	0.3%	
36.746	Thymol	1290	0.02%	
37.252	trans-Cinnamyl alcohol	1297	0.01%	IFRA
38.196	Unidentified	1311	0.02%	
40.306	Eugenol	1343	4.43%	IFRA
41.318	Unidentified	1359	0.06%	
41.937	alpha-Copaene	1368	0.2%	
42.618	Unidentified	1378	0.02%	
42.817	Unidentified	1381	0.01%	
43.802	cis-beta-Caryophyllene	1396	0.02%	
44.762	beta-Caryophyllene	1411	3.34%	
45.934	Unidentified	1430	0.01%	
46.314	trans-Cinnamyl acetate	1436	4.97%	
46.841	Unidentified	1444	0.01%	
47.003	alpha-Humulene	1447	0.23%	
47.273	Alloaromodendrene	1451	0.01%	
48.038	Unidentified	1463	0.03%	
48.205	trans-Cadina-1(6),4-diene	1466	0.02%	
48.572	Ar-Curcumene	1472	0.03%	
49.084	Unidentified	1480	0.01%	
49.206	Viridiflorene	1482	0.02%	
49.515	Unidentified	1487	0.01%	
49.667	alpha-Muurolene	1489	0.02%	
49.993	Unidentified	1495	0.01%	
50.234	beta-Bisabolene	1498	0.04%	
50.537	Eugenyl acetate	1503	0.2%	
50.650	Unidentified	1505	0.02%	
50.851	delta-Cadinene	1509	0.07%	
51.044	cis-Calamenene	1512	0.02%	
51.304	Unidentified	1516	0.03%	
51.702	Unidentified	1523	0.01%	
51.950	Unidentified	1527	0.01%	
52.199	Unidentified	1531	0.04%	
54.267	Caryophyllene alcohol	1566	0.03%	
54.639	Caryophyllene oxide	1572	0.17%	



Ret. Time	Component	Ret. Idx.	Conc. %	
55.279	Unidentified	1583	0.01%	
56.257	Humulene epoxide II	1599	0.02%	
56.466	Tetradecanal	1603	0.03%	
57.783	Unidentified	1626	0.01%	
58.838	Unidentified	1645	0.01%	
59.659	Unidentified	1659	0.02%	
64.869	Benzyl benzoate	1754	0.24%	IFRA
84.958	Unidentified	2165	0.01%	
90.436	Unidentified	2292	0.01%	

Total Identified Compounds **99.63 %**



TIC
14,995,027

