Essential Oil University

GC/MS Report

Item	Lot
Cinnamon Bark EO, Pure & Natural *Cinnamomum zeylanicum*	**2B**
Date	Analyst
12/16/2025	**Dr. Robert S. Pappas**

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 Name: Cinnamon Bark EO, Pure & Natural
Botanical Name: Cinnamomum zeylanicum
Lot Number: 2B
Production Method: Steam distilled
Sample Type: EO - Single
Country of Origin: Sri Lanka
Analysis Date: 12/16/2025
Manufacture Date: December 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	METHOD	RESULTS
Optical Rotation @20°C	USP[781]	+3.08
Refractive Index @20°C	USP[831]	1.58610
Specific Gravity @20°C	USP[841]	1.01636

Ret. Time	Component	Ret. Idx.	Conc. %	
10.658	Styrene	889	0.01%	PROP. 65
12.224	Tricyclene	920	0%	
12.371	alpha-Thujene	923	0.16%	
12.796	alpha-Pinene	930	3.48%	ALLERGEN
13.622	alpha-Fenchene	945	0.01%	
13.723	Camphene	946	0.35%	
14.378	Benzaldehyde	958	0.11%	ALLERGEN IFRA
15.007	Sabinene	969	0.03%	
15.324	beta-Pinene	975	0.37%	ALLERGEN
15.943	Myrcene	986	0.14%	PROP. 65
17.035	alpha-Phellandrene	1004	1.55%	
17.181	delta-3-Carene	1006	0.1%	
17.692	alpha-Terpinene	1014	0.85%	ALLERGEN
17.848	ortho-Cymene	1016	0.03%	
18.178	para-Cymene	1021	1.15%	
18.485	Limonene	1026	2.04%	ALLERGEN IFRA
18.595	beta-Phellandrene	1028	0.67%	
18.686	1,8-Cineole	1029	2.03%	
18.875	cis-beta-Ocimene	1032	0.03%	
19.209	Butyl 2-methylbutyrate	1037	0.01%	
19.575	trans-beta-Ocimene	1042	0.06%	
20.386	gamma-Terpinene	1055	0.04%	
21.212	cis-Linalool oxide (furanoid)	1067	0.02%	
21.948	Isoterpinolene	1078	0.01%	
22.214	Terpinolene	1082	0.13%	ALLERGEN
22.280	Unidentified	1083	0.02%	
22.552	para-Cymenene	1087	0.01%	
23.180	Linalool	1097	4.24%	ALLERGEN IFRA
23.400	2-Methylbutyl-2-methylbutyrate	1100	0.04%	
24.023	Phenethyl alcohol	1109	0.02%	
26.493	Camphor	1144	0.01%	ALLERGEN
27.516	Hydrocinnamaldehyde	1159	0.03%	
28.060	Unidentified	1167	0.01%	
28.209	Borneol	1169	0.02%	
28.800	Terpinen-4-ol	1178	0.34%	
29.803	alpha-Terpineol	1192	0.48%	ALLERGEN
31.410	cis-Cinnamaldehyde	1215	0.25%	ALLERGEN IFRA
32.174	Hydrocinnamic alcohol	1226	0.03%	
32.730	ortho-Anisaldehyde	1235	0.01%	IFRA
35.394	trans-Cinnamaldehyde	1273	69.73%	ALLERGEN IFRA

Ret. Time	Component	Ret. Idx.	Conc. %	
36.288	Safrole	1286	0.1%	PROP. 65
37.358	trans-Cinnamyl alcohol	1302	0.01%	ALLERGEN IFRA
40.338	Eugenol	1347	2.14%	ALLERGEN IFRA
41.413	Unidentified	1364	0.02%	
41.972	alpha-Copaene	1372	0.1%	
42.705	cis-Cinnamyl acetate	1383	0.01%	
44.796	beta-Caryophyllene	1416	2.63%	ALLERGEN
46.369	trans-Cinnamyl acetate	1441	5.04%	
46.652	Humulen-(v1)	1445	0.04%	
46.889	Unidentified	1449	0.04%	
47.045	alpha-Humulene	1452	0.48%	
49.699	alpha-Amorphene	1494	0.01%	
50.264	beta-Bisabolene	1503	0.01%	
50.598	Eugenyl acetate	1509	0.05%	ALLERGEN
50.885	delta-Cadinene	1514	0.03%	
51.085	cis-Calamenene	1517	0.01%	
51.389	ortho-Methoxycinnamaldehyde	1522	0.07%	IFRA
52.246	alpha-Calacorene	1537	0.04%	
53.415	trans-Nerolidol	1556	0.02%	
54.312	Caryophyllene alcohol	1571	0.01%	
54.685	Caryophyllene oxide	1578	0.05%	
56.511	Tetradecanal	1609	0.02%	
64.941	Benzyl benzoate	1761	0.44%	ALLERGEN IFRA

Total Identified Compounds **99.9 %**

TIC
13,458,415