



Essential Oil University

GC/MS Report

Item	Lot
Cassia EO <i>Cinnamomum cassia</i>	5C
Date	Analyst
12/9/2025	Dr. Robert S. Pappas

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The analysis of this batch sample, Cassia EO, meets the expected chemical profile for authentic essential oil of *Cinnamomum cassia*. 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: Cassia EO
Botanical Name: Cinnamomum cassia
Lot Number: 5C
Production Method: Steam distilled

Sample Type: EO - Single
Country of Origin: China
Analysis Date: 12/9/2025
Manufacture Date: November 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]	-.08
Refractive Index @20°C	USP[831]	1.60948
Specific Gravity @20°C	USP[841]	1.05889



Ret. Time	Component	Ret. Idx.	Conc. %	
10.663	Styrene	889	0.09%	PROP. 65
12.804	alpha-Pinene	930	0.07%	ALLERGEN
13.735	Camphene	947	0.04%	
14.375	Benzaldehyde	958	1.62%	ALLERGEN IFRA
15.337	beta-Pinene	975	0.02%	ALLERGEN
18.197	para-Cymene	1022	0.02%	
18.497	Limonene	1026	0.06%	ALLERGEN IFRA
18.707	1,8-Cineole	1029	0.02%	
19.451	Salicylaldehyde	1041	0.09%	ALLERGEN
20.900	Acetophenone	1062	0.02%	
22.153	Guaiacol	1081	0.01%	
23.191	Linalool	1097	0.03%	ALLERGEN IFRA
24.009	Phenethyl alcohol	1109	0.26%	
25.471	2-Vinyl-anisole	1130	0.01%	
27.515	Hydrocinnamaldehyde	1159	0.32%	
28.232	Borneol	1169	0.05%	
28.404	2-Methylbenzofuran	1172	0.02%	
29.837	alpha-Terpineol	1192	0.02%	ALLERGEN
31.436	cis-Cinnamaldehyde	1216	0.29%	ALLERGEN IFRA
32.180	Hydrocinnamic alcohol	1227	0.08%	
32.734	ortho-Anisaldehyde	1235	0.31%	IFRA
33.850	2-Phenethyl acetate	1251	0.05%	
35.369	trans-Cinnamaldehyde	1273	79.67%	ALLERGEN IFRA
36.101	Unidentified	1284	0.02%	
37.366	trans-Cinnamyl alcohol	1302	0.06%	ALLERGEN IFRA
40.357	Eugenol	1348	0.41%	ALLERGEN IFRA
41.431	Unidentified	1364	0.17%	
41.560	Isodene	1366	0.05%	
42.004	alpha-Copaene	1373	0.27%	
42.716	trans-Cinnamyl acetate	1384	0.03%	
44.827	beta-Caryophyllene	1416	0.08%	ALLERGEN
45.707	Coumarin	1430	2.94%	ALLERGEN IFRA
46.004	Aromandendrene	1435	0.02%	
46.391	trans-Cinnamyl acetate	1441	5.7%	
46.748	cis-ortho-Methoxycinnamaldehyde	1447	0.05%	
46.909	Unidentified	1450	0.03%	
47.074	alpha-Humulene	1452	0.01%	
47.350	Alloaromodendrene	1457	0.04%	
48.279	gamma-Muurolene	1471	0.09%	
48.540	alpha-Amorphene	1476	0.02%	

Ret. Time	Component	Ret. Idx.	Conc. %	
48.648	Ar-Curcumene	1477	0.05%	
49.145	Unidentified	1485	0.01%	
49.279	Viridiflorene	1487	0.03%	
49.390	Unidentified	1489	0.01%	
49.590	alpha-Selinene	1492	0.01%	
49.738	alpha-Muurolene	1495	0.07%	
50.301	beta-Bisabolene	1504	0.09%	
50.637	Eugenyl acetate	1510	0.25%	ALLERGEN
50.924	delta-Cadinene	1514	0.15%	
51.123	cis-Calamenene	1518	0.04%	
51.455	trans-ortho-Methoxycinnamaldehyde	1523	5.7%	IFRA
52.034	alpha-Cadinene	1533	0.01%	
52.261	trans-alpha-Bisabolene	1537	0.07%	
53.447	trans-Nerolidol	1557	0.04%	
54.396	Spathulenol	1573	0.05%	
54.729	Caryophyllene oxide	1578	0.03%	
56.540	Tetradecanal	1609	0.02%	
58.909	alpha-Cadinol	1651	0.02%	
59.562	Unidentified	1663	0.03%	
60.705	alpha-Bisabolol	1683	0.02%	IFRA
64.975	Benzyl benzoate	1762	0.04%	ALLERGEN IFRA
69.543	Phenethyl benzoate	1849	0.02%	
73.450	Rosa-5,15-diene	1927	0.02%	
76.976	Luxuriadiene	1999	0.04%	

Total Identified Compounds **99.71 %**



TIC
10,790,338

