



Essential Oil University

GC/MS Report

Item	Lot
Cassia EO <i>Cinnamomum cassia</i>	1G
Date	Analyst
9/2/2025	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: 1G
Production Method: Steam distilled

Sample Type: EO - Single
Country of Origin: China
Analysis Date: 9/2/2025
Manufacture Date: July 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

Optical Rotation @20°C
Refractive Index @20°C
Specific Gravity @20°C

METHOD

USP[781]
USP[831]
USP[841]

RESULTS

+0.04
1.60652
1.05059



Ret. Time	Component	Ret. Idx.	Conc. %	
10.713	Styrene	891	0.1%	
12.870	alpha-Pinene	931	0.07%	
13.806	Camphene	948	0.05%	
14.438	Benzaldehyde	959	1.57%	IFRA
15.413	beta-Pinene	976	0.03%	
18.278	para-Cymene	1023	0.03%	
18.581	Limonene	1027	0.04%	IFRA
18.795	1,8-Cineole	1031	0.01%	
19.525	Salicylaldehyde	1042	0.08%	
20.975	Acetophenone	1063	0.02%	
22.226	Unidentified	1082	0.01%	
24.087	Phenylethyl alcohol	1110	0.3%	
25.556	Unidentified	1131	0.02%	
26.315	Unidentified	1142	0.01%	
27.604	Benzenepropanal	1160	0.34%	
28.336	Borneol	1171	0.06%	
28.501	2-Methylbenzofuran	1173	0.02%	
29.933	alpha-Terpineol	1194	0.02%	
31.526	cis-Cinnamaldehyde	1217	0.29%	IFRA
32.274	Hydrocinnamyl alcohol	1228	0.09%	
32.819	ortho-Anisaldehyde	1236	0.37%	IFRA
33.954	2-Phenethyl acetate	1252	0.03%	
35.490	trans-Cinnamaldehyde	1275	79.11%	IFRA
36.083	Unidentified	1283	0.01%	
36.190	Unidentified	1285	0.02%	
37.465	trans-Cinnamyl alcohol	1304	0.04%	IFRA
40.456	Eugenol	1349	0.25%	IFRA
41.528	Unidentified	1365	0.18%	
41.657	Isolodene	1367	0.06%	
42.117	alpha-Copaene	1374	0.36%	
42.647	Unidentified	1382	0.01%	
42.825	Unidentified	1385	0.02%	
42.998	Unidentified	1388	0.01%	
44.939	beta-Caryophyllene	1418	0.09%	
45.095	Unidentified	1421	0.01%	
45.570	Unidentified	1428	0%	
45.804	Coumarin	1432	2.58%	IFRA
46.119	Unidentified	1437	0.02%	
46.495	trans-Cinnamyl acetate	1443	4.33%	
46.595	Unidentified	1445	0.04%	



Ret. Time	Component	Ret. Idx.	Conc. %	
46.844	Unidentified	1449	0.05%	
47.021	Unidentified	1451	0.02%	
47.196	alpha-Humulene	1454	0.01%	
47.460	Alloaromodendrene	1458	0.04%	
48.389	gamma-Murolene	1473	0.1%	
48.650	Unidentified	1477	0.01%	
48.762	Ar-Curcumene	1479	0.06%	
49.150	Unidentified	1485	0.01%	
49.260	beta-Selinene	1487	0.02%	
49.389	Viridiflorene	1489	0.04%	
49.490	Unidentified	1491	0.01%	
49.716	Unidentified	1494	0.01%	
49.849	alpha-Murolene	1496	0.08%	
50.419	beta-Bisabolene	1506	0.1%	
50.530	Unidentified	1508	0.01%	
50.736	gamma-Cadinene	1511	0.07%	
51.031	delta-Cadinene	1516	0.19%	
51.236	cis-Calamenene	1520	0.05%	
51.582	ortho-Methoxycinnamaldehyde	1525	7.92%	IFRA
51.902	Unidentified	1531	0.03%	
52.030	Unidentified	1533	0.01%	
52.141	Unidentified	1535	0.03%	
52.380	trans-alpha-Bisabolene	1539	0.08%	
53.575	trans-Nerolidol	1559	0.03%	
54.511	Spathulenol	1575	0.06%	
54.840	Caryophyllene oxide	1580	0.04%	
56.661	Tetradecanal	1611	0.02%	
58.380	Unidentified	1642	0.01%	
58.538	Unidentified	1645	0.02%	
59.026	Unidentified	1653	0.03%	
60.827	alpha-Bisabolol	1685	0.02%	IFRA
65.091	Benzyl benzoate	1764	0.09%	IFRA
69.008	Unidentified	1839	0.01%	
69.656	2-Methylbenzyl benzoate	1851	0.02%	
73.586	Rosa-5,15-diene	1930	0.01%	
77.100	Luxuriadiene	2002	0.05%	
77.550	Unidentified	2011	0.01%	
78.999	Unidentified	2043	0.02%	

Total Identified Compounds **99.44 %**



TIC
15,647,473

