



Essential Oil University

GC/MS Report

Item	Lot
Cassia EO <i>Cinnamomum cassia</i>	3B
Date	Analyst
10/16/2025	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:** 3B**Production Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** China**Analysis Date:** 10/16/2025**Manufacture Date:** September 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

-.12

1.60925

1.06006



Ret. Time	Component	Ret. Idx.	Conc. %	
10.726	Styrene	891	0.08%	PROP. 65
12.881	alpha-Pinene	932	0.08%	ALLERGEN
13.817	Camphene	948	0.05%	
14.452	Benzaldehyde	959	1.63%	ALLERGEN IFRA
15.422	beta-Pinene	976	0.02%	ALLERGEN
18.282	para-Cymene	1023	0.03%	
18.585	Limonene	1028	0.11%	ALLERGEN IFRA
19.534	Salicylaldehyde	1042	0.11%	ALLERGEN
20.970	Acetophenone	1063	0.02%	
22.234	4-Methoxyphenol	1082	0.01%	IFRA
24.093	Phenylethyl alcohol	1110	0.35%	
25.561	2-Vinyl anisole	1131	0.02%	
26.316	2-Methylbenzofuran isomer	1142	0.01%	
27.607	Hydrocinnamaldehyde	1160	0.42%	
28.337	Borneol	1171	0.07%	
28.497	2-Methylbenzofuran	1173	0.05%	
29.935	alpha-Terpineol	1194	0.02%	ALLERGEN
31.529	cis-Cinnamaldehyde	1217	0.3%	ALLERGEN IFRA
32.273	Hydrocinnamic alcohol	1228	0.11%	
32.822	ortho-Anisaldehyde	1236	0.4%	IFRA
33.943	2-Phenethyl acetate	1252	0.1%	
35.499	trans-Cinnamaldehyde	1275	77.16%	ALLERGEN IFRA
36.073	Bornyl acetate	1283	0.02%	
37.450	trans-Cinnamyl alcohol	1304	0.1%	ALLERGEN IFRA
40.451	Eugenol	1349	0.4%	ALLERGEN IFRA
41.523	Unidentified	1365	0.18%	
41.649	Unidentified	1367	0.05%	
42.105	alpha-Copaene	1374	0.35%	
42.630	Unidentified	1382	0.01%	
42.811	trans-Cinnamyl acetate analogue	1385	0.02%	
42.991	Unidentified	1388	0.01%	
44.931	beta-Caryophyllene	1418	0.15%	ALLERGEN
45.812	Coumarin	1432	2.91%	ALLERGEN IFRA
46.108	Alloaromodendrene	1437	0.04%	
46.494	trans-Cinnamyl acetate	1443	5.54%	
46.655	Unidentified	1446	0.02%	
46.840	Cinnamaldehyde analogue	1448	0.04%	
47.015	Unidentified	1451	0.02%	
47.178	alpha-Humulene	1454	0.01%	
47.452	Alloaromodendrene	1458	0.08%	



Ret. Time	Component	Ret. Idx.	Conc. %	
48.376	gamma-Murolene	1473	0.11%	
48.640	alpha-Amorphene	1477	0.02%	
48.747	Ar-Curcumene	1479	0.05%	
49.261	Unidentified	1487	0.01%	
49.376	Viridiflorene	1489	0.04%	
49.475	Unidentified	1491	0.01%	
49.690	Unidentified	1494	0.01%	
49.835	alpha-Murolene	1496	0.07%	
50.196	Unidentified	1502	0.01%	
50.397	beta-Bisabolene	1506	0.11%	
50.721	gamma-Cadinene	1511	0.07%	
51.018	delta-Cadinene	1516	0.17%	
51.223	cis-Calamenene	1519	0.03%	
51.577	ortho-Methoxycinnamaldehyde	1525	7.56%	IFRA
51.880	trans-Cadina-1,4-diene	1530	0.01%	
52.133	alpha-Cadinene	1535	0.02%	
52.365	trans-alpha-Bisabolene	1539	0.07%	
53.548	trans-Nerolidol	1559	0.06%	
54.501	Spathulenol	1575	0.07%	
54.830	Caryophyllene oxide	1580	0.05%	
56.630	Tetradecanal	1611	0.01%	
57.175	Unidentified	1621	0%	
58.360	Unidentified	1642	0.02%	
58.516	Unidentified	1644	0.01%	
59.012	Cadin-4-en-10-ol	1653	0.03%	
59.644	Unidentified	1664	0.11%	
60.810	alpha-Bisabolol	1685	0.02%	IFRA
65.073	Benzyl benzoate	1764	0.07%	ALLERGEN IFRA
69.638	Phenethyl benzoate	1851	0.02%	
73.558	Rosa-5,15-diene	1929	0.02%	
77.079	Luxuriadiene	2001	0.04%	

Total Identified Compounds **99.53 %**



TIC
16,317,380

