



Essential Oil University

GC/MS Report

Item	Lot
Cassia EO <i>Cinnamomum cassia</i>	2N
Date	Analyst
12/6/2024	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:** 2N**Production Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** China**Analysis Date:** 12/6/2024**Manufacture Date:** October 2024

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

1.60979

1.05681



Ret. Time	Component	Ret. Idx.	Conc. %	
10.179	Styrene	890	0.11%	
12.243	alpha-Pinene	931	0.07%	
13.137	Camphene	947	0.04%	
13.758	Benzaldehyde	958	1.64%	IFRA
14.696	Unidentified	975	0.03%	
17.528	Unidentified	1023	0.02%	
17.821	Unidentified	1027	0.03%	
18.727	Salicylaldehyde	1041	0.06%	
20.161	Unidentified	1063	0.02%	
21.415	Unidentified	1082	0.01%	
22.446	Unidentified	1098	0.02%	
23.204	Phenethyl alcohol	1109	0.37%	
24.693	Unidentified	1131	0.01%	
26.676	Hydrocinnamaldehyde	1159	0.4%	
27.365	Borneol	1169	0.06%	
27.565	Unidentified	1172	0.01%	
28.996	Unidentified	1193	0.02%	
30.561	cis-Cinnamaldehyde	1216	0.33%	IFRA
31.311	Hydrocinnamic alcohol	1227	0.11%	
31.868	Methyl salicylaldehyde	1235	0.36%	
33.003	Unidentified	1252	0.02%	
34.496	trans-Cinnamaldehyde	1274	79.51%	IFRA
35.062	Unidentified	1282	0.01%	
35.239	Unidentified	1285	0.01%	
35.441	Unidentified	1288	0.01%	
36.477	Unidentified	1303	0.03%	
39.474	Eugenol	1349	0.23%	IFRA
40.518	Unidentified	1364	0.21%	
40.680	Unidentified	1367	0.02%	
41.089	alpha-Copaene	1373	0.36%	
43.877	beta-Caryophyllene	1416	0.09%	
44.739	Coumarin	1430	2%	IFRA
45.072	Unidentified	1436	0.01%	
45.471	trans-Cinnamyl acetate	1442	4.5%	
45.823	cis-2-Methoxycinnamaldehyde	1448	0.04%	IFRA
45.988	Unidentified	1450	0.02%	
46.131	Unidentified	1453	0.01%	
46.402	Alloaromodendrene	1457	0.04%	
47.349	gamma-Murolene	1472	0.1%	
47.611	Unidentified	1476	0.01%	



Ret. Time	Component	Ret. Idx.	Conc. %	
47.727	Ar-Curcumene	1478	0.05%	
48.195	Unidentified	1486	0.01%	
48.352	Unidentified	1488	0.04%	
48.435	Unidentified	1490	0.01%	
48.659	Unidentified	1493	0.02%	
48.807	alpha-Muurolene	1495	0.09%	
49.380	beta-Bisabolene	1505	0.1%	
49.500	Unidentified	1507	0.01%	
49.683	gamma-Cadinene	1510	0.07%	
49.995	delta-Cadinene	1515	0.18%	
50.172	cis-Calamenene	1518	0.03%	
50.290	Unidentified	1520	0.01%	
50.547	ortho-Methoxycinnamaldehyde	1525	8%	IFRA
50.842	Unidentified	1530	0.01%	
51.096	Unidentified	1534	0.01%	
51.329	trans-alpha-Bisabolene	1538	0.09%	
52.518	trans-Nerolidol	1558	0.03%	
53.434	Spathulenol	1573	0.05%	
53.744	Unidentified	1578	0.02%	
54.359	Unidentified	1589	0.01%	
55.615	Tetradecanal	1611	0.02%	
56.994	Unidentified	1635	0.01%	
57.211	Unidentified	1639	0.01%	
57.958	Unidentified	1652	0.01%	
58.769	Unidentified	1667	0.01%	
58.921	Unidentified	1669	0.01%	
59.761	alpha-Bisabolol	1684	0.02%	IFRA
63.989	Benzyl benzoate	1762	0.05%	IFRA
68.537	Unidentified	1850	0.02%	
75.944	Luxuriadiene	2000	0.04%	

Total Identified Compounds **99.24 %**

