



Sample & Analysis Information

Sample Information

Sample Name: Cassia Essential Oil**Botanical Name:** Cinnamomum cassia**Lot Number:** 13024 **Production****Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** China**Analysis Date:** 10/3/2024**Date of Distillation:** 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 %**

