

Sample Information

Sample Name: Cinnamon Bark EO

Botanical Name: Cinnamomum zeylanicum

Lot Number: MAP13-PK

Production Method: Steam distilled

Sample Type: EO - Single

Country of Origin: Madagascar

Analysis Date: 10/22/2024

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

+2.88

1.57974

1.01237

Ret. Time	Component	Ret. Idx.	Conc. %	
10.153	Styrene	889	0.02%	
11.808	alpha-Thujene	923	0.27%	
12.213	alpha-Pinene	930	3.57%	
13.003	Unidentified	944	0.01%	
13.102	Camphene	946	0.3%	
13.735	Benzaldehyde	958	0.12%	IFRA
13.905	Unidentified	961	0%	
14.365	Sabinene	969	0.07%	
14.660	beta-Pinene	975	0.27%	
15.301	Myrcene	986	0.03%	
16.145	Unidentified	1001	0.01%	
16.348	alpha-Phellandrene	1004	2.41%	
16.496	delta-3-Carene	1007	0.1%	
17.006	alpha-Terpinene	1015	0.74%	
17.166	ortho-Cymene	1017	0.01%	
17.485	para-Cymene	1022	1.08%	
17.781	Limonene	1026	1.62%	IFRA
17.881	beta-Phellandrene	1028	2.9%	
17.947	1,8-Cineole	1029	1.53%	
18.179	cis-beta-Ocimene	1033	0.04%	
18.495	Butyl 2-methylbutyrate	1037	0.01%	
18.868	trans-beta-Ocimene	1043	0.02%	
19.648	gamma-Terpinene	1055	0.08%	
20.434	trans-Sabinene hydrate	1067	0.02%	
21.193	Unidentified	1079	0.01%	
21.452	Terpinolene	1083	0.09%	
21.773	para-Cymenene	1088	0.02%	
22.407	Linalool	1097	4.07%	IFRA
22.630	2-Methylbutyl-2-methylbutyrate	1101	0.03%	
23.204	Unidentified	1109	0.01%	
24.079	Unidentified	1122	0.01%	
25.299	Unidentified	1139	0.01%	
25.612	Camphor	1144	0.06%	
26.637	Benzenepropanal	1159	0.19%	
27.322	Borneol	1169	0.04%	
27.937	Terpinen-4-ol	1178	0.23%	
28.371	Unidentified	1184	0.02%	
28.938	alpha-Terpineol	1192	0.32%	
29.487	alpha-Phellandrene epoxide	1200	0.03%	
30.523	cis-Cinnamaldehyde	1215	0.22%	IFRA

Ret. Time	Component	Ret. Idx.	Conc. %	
31.282	Hydrocinnamyl alcohol	1227	0.04%	
31.856	Methyl salicylaldehyde ether	1235	0.02%	
32.976	Unidentified	1251	0.01%	
34.459	trans-Cinnamaldehyde	1273	62.84%	IFRA
35.400	Unidentified	1287	0.01%	
35.954	Thymol	1295	0.02%	
36.447	trans-Cinnamyl alcohol	1302	0.02%	IFRA
39.466	Eugenol	1348	4.25%	IFRA
40.548	Hydrocinnamyl acetate	1365	0.07%	
41.055	alpha-Copaene	1373	0.2%	
42.901	cis-beta-Caryophyllene	1401	0.01%	
43.859	beta-Caryophyllene	1416	5.34%	
45.449	trans-Cinnamyl acetate	1442	5.28%	
45.960	Unidentified	1450	0.01%	
46.093	alpha-Humulene	1452	0.37%	
47.690	Ar-Curcumene	1478	0.02%	
48.769	Unidentified	1495	0.02%	
49.348	beta-Bisabolene	1504	0.02%	
49.649	Unidentified	1509	0.01%	
49.960	delta-Cadinene	1515	0.05%	
50.154	Unidentified	1518	0.01%	
50.447	ortho-Methoxycinnamaldehyde	1523	0.1%	IFRA
51.300	Unidentified	1537	0.01%	
53.322	Caryolan-8-ol	1571	0.03%	
53.707	Caryophyllene oxide	1578	0.14%	
54.335	Unidentified	1588	0.01%	
54.416	Unidentified	1590	0.01%	
55.316	Humulene epoxide II	1605	0.02%	
55.578	Tetradecanal	1610	0.07%	
63.943	Benzyl benzoate	1762	0.38%	IFRA
73.751	Unidentified isomer	1954	0.01%	
74.961	Unidentified isomer	1979	0.04%	
81.036	Unidentified	2109	0.03%	
81.449	Unidentified	2119	0.01%	

Total Identified Compounds **99.8 %**

