

Sample & Analysis Information

Sample Information

Sample Name: Tonka Bean Absolute

Sample Type: EO - Other

Botanical Name: Dipteryx odorata **Lot**

Country of Origin: Brazil

Number: 12786

Analysis Date: 9/30/2024

Production Method: Solvent extraction

Date of Distillation: September 2024

GC/MS

Inst. ID: Shimadzu GCMS-QP2010Ultra

Column Type: ZB-5

Injection Type: Split

Injection Volume: 0.1 µL

Split Ratio: 24.4

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

Not Measurable

Not Measurable

Not Measurable

Ret. Time	Component	Ret. Idx.	Conc. %	
3.059	Ethanol	623	0.22%	
26.713	2,3-Dihydrobenzofuran analogue	1145	0.03%	
37.668	4-Vinyl guaiacol	1303	0.02%	
39.275	delta-Elemene	1328	0.04%	
40.266	alpha-Cubebene	1343	0.28%	
41.695	Cyclosatiene + Isoledene	1364	0.05%	
42.164	alpha-Copaene	1371	5.54%	
42.461	3,4-Dihydrocoumarin	1376	2.74%	IFRA
42.944	beta-Cubebene	1383	0.2%	
43.035	beta-Elemene	1385	0.04%	
43.224	Vanillin	1387	0.02%	
43.945	Cyperene	1398	0.02%	
44.194	alpha-Gurjunene	1402	0.08%	
44.574	beta-Maaliene	1408	0.02%	
44.983	beta-Caryophyllene	1415	1.95%	
46.094	Coumarin	1432	78.36%	IFRA
46.956	trans-Murrola-3,5-diene	1446	0.01%	
47.249	alpha-Humulene	1451	0.37%	
47.518	Alloaromadendrene	1455	0.13%	
48.259	trans-Cadina-1(6),4-diene	1467	0.03%	
48.438	gamma-Murolene	1470	0.14%	
48.725	beta-Selinene	1474	0.01%	
48.834	Germacrene D	1476	0.03%	
48.960	Unidentified	1478	0.01%	
49.446	Viridiflorene	1486	0.03%	
49.736	Bicyclogermacrene	1490	0.06%	
49.902	alpha-Murolene	1493	0.08%	
50.786	Unidentified	1508	0.01%	
51.087	delta-Cadinene	1513	0.85%	
51.279	trans-Calamenene	1516	0.09%	
51.368	Zonarene	1517	0.04%	
51.521	ortho-Methoxycinnamaldehyde	1520	0.01%	IFRA
51.940	trans-Cadina-1,4-diene	1527	0.02%	
52.504	beta-Copaen-4-alfa-ol	1536	0.05%	
53.688	beta-Calacorene	1556	0.02%	
53.867	Ethyl melilotate	1559	1.88%	
54.551	Unidentified	1571	0.04%	
54.701	Unidentified	1573	0.01%	
54.884	Caryophyllene oxide	1576	0.12%	
55.381	Ethyl melilotate isomer	1585	0.01%	

Ret. Time	Component	Ret. Idx.	Conc. %	
56.510	Humulene epoxide II	1604	0.02%	
57.527	Epicubenol	1622	0.03%	
58.402	epi-alpha-Cadinol	1637	0.02%	
59.108	cis-Calamenen-10-ol	1650	0.02%	
59.581	trans-Calamenen-10-ol	1658	0.01%	
65.050	Unidentified	1757	0.01%	
65.112	Benzyl benzoate	1758	0.04%	IFRA
65.605	Unidentified	1768	0.02%	
67.319	Unidentified	1799	0.02%	
71.106	Unidentified	1873	0.02%	
74.244	Unidentified	1936	0.03%	
74.919	Hexadecanoic acid	1950	0.11%	
76.662	Ethyl palmitate	1986	0.27%	
81.583	Unidentified	2090	0.01%	
82.904	Linoleic acid	2119	0.34%	
83.249	Oleic acid	2127	1.68%	
84.277	Ethyl linolate	2150	1.09%	
84.603	Ethyl oleate	2157	1.68%	
84.879	Unidentified	2164	0.01%	
85.841	Ethyl stearate	2185	0.08%	
86.456	Unidentified	2199	0.01%	
90.120	Unidentified	2284	0.01%	
90.714	Unidentified	2298	0.01%	
92.180	Unidentified	2334	0.01%	
93.144	Unidentified	2357	0.06%	
95.432	Unidentified	2413	0.02%	
97.075	Unidentified	2454	0.02%	
97.326	Unidentified	2461	0.04%	
97.558	Unidentified	2467	0.03%	
102.073	Unidentified	2584	0.02%	
102.613	Unidentified	2598	0.01%	
119.934	Unidentified	3102	0.03%	
122.786	Unidentified	3194	0.07%	
123.047	Unidentified	3202	0.08%	
123.592	Stigmasterol isomer	3220	0.13%	
125.457	gamma-Sitosterol analogue	3282	0.31%	
129.845	Unidentified	3426	0.04%	

Total Identified Compounds **99.42 %**

TIC
447,560

