



Sample & Analysis Information

Sample Information

Sample Name: Palmarosa Essential Oil**Botanical Name:** Cymbopogon martinii**Lot Number:** 13055**Production Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** Nepal**Analysis Date:** 2/12/2025**Manufacture Date:** February 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

+0.12

1.47297

0.88841

Ret. Time	Component	Ret. Idx.	Conc. %	
2.964	Ethanol	542	0.01%	
3.609	Unidentified	605	0%	
5.141	1-Pentanol	726	0.02%	
9.415	Isoamyl acetate	870	0.01%	
14.988	6-Methyl hept-5-en-2-one	981	0.05%	
15.296	Myrcene	986	0.23%	
15.500	Unidentified	990	0%	
16.254	cis-Dehydrolinalool oxide	1003	0.01%	
17.768	Limonene	1026	0.1%	IFRA
18.167	cis-beta-Ocimene	1032	0.33%	
18.850	trans-beta-Ocimene	1043	1.49%	
20.437	1-Octanol	1067	0.02%	
21.447	Terpinolene	1083	0.02%	
22.389	Linalool	1097	2.51%	IFRA
22.610	Unidentified	1100	0.01%	
24.338	allo-Ocimene	1125	0.01%	
28.932	alpha-Terpineol	1192	0.02%	
30.921	Nerol	1221	0.09%	
31.087	Citronellol	1224	0.01%	IFRA
31.848	Neral	1235	0.13%	IFRA
32.941	Geraniol	1251	79.68%	IFRA
33.897	Geranial	1265	0.29%	IFRA
34.829	Unidentified	1279	0.01%	
35.223	Unidentified	1284	0.03%	
35.928	Geranyl formate	1295	0.1%	
39.914	Unidentified	1355	0.01%	
41.212	Geranyl acetate	1375	11.17%	
41.926	beta-Elementene	1386	0.06%	
42.810	Unidentified	1399	0.02%	
43.825	beta-Caryophyllene	1416	1.43%	
46.064	alpha-Humulene	1452	0.08%	
47.819	Selina-4,11-diene	1480	0.05%	
48.145	beta-Selinene	1485	0.01%	
48.364	Valencene	1488	0.02%	
49.972	(-)-alpha-Panasinsen	1515	0.02%	
51.859	Unidentified	1547	0.01%	
52.157	Geranyl butyrate	1552	0.16%	
52.456	trans-Nerolidol	1557	0.07%	
53.674	Caryophyllene oxide	1577	0.12%	
55.006	Geranyl isovalerate	1600	0.02%	

Ret. Time	Component	Ret. Idx.	Conc. %	
56.855	Unidentified	1633	0.01%	
61.192	(2E,6E)-Farnesol	1710	0.51%	IFRA
63.028	Geranyl hexanoate	1745	0.79%	
67.415	Farnesyl acetate	1828	0.05%	
67.871	Unidentified	1837	0.01%	
70.829	Unidentified	1895	0.02%	
73.002	Geranyl octanoate	1939	0.12%	
77.991	Unidentified	2044	0.01%	
85.212	Unidentified	2203	0.01%	
92.508	Unidentified	2378	0.04%	
104.672	Unidentified	2697	0.01%	
108.297	Unidentified	2800	0.01%	

Total Identified Compounds **99.81 %**

