



Essential Oil University

GC/MS Report

Item	Lot
Palmarosa EO <i>Cymbopogon martinii</i>	3A
Date	Analyst
1/16/2025	Dr. Robert S. Pappas

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The analysis of this batch sample, Palmarosa EO, meets the expected chemical profile for authentic essential oil of *Cymbopogon martinii*. 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:** Palmarosa EO**Botanical Name:** Cymbopogon martinii**Lot Number:** 3A**Production Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** Nepal**Analysis Date:** 1/16/2025**Manufacture Date:** May 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

+0.16

1.47252

0.88821



Ret. Time	Component	Ret. Idx.	Conc. %	
3.607	2-Methyl-3-buten-2-ol	605	0.01%	
4.026	Isovaleric aldehyde	646	0.01%	
4.141	Unidentified	657	0.01%	
4.346	Unidentified	677	0.01%	
5.138	Isopentyl alcohol	726	0.05%	
9.419	Isopentyl acetate	870	0.02%	
15.010	6-Methyl hept-5-en-2-one	981	0.04%	
15.315	Myrcene	987	0.31%	
16.276	Unidentified	1003	0.01%	
17.499	Unidentified	1022	0%	
17.797	Limonene	1027	0.14%	IFRA
17.964	1,8-Cineole	1029	0.04%	
18.193	cis-beta-Ocimene	1033	0.35%	
18.873	trans-beta-Ocimene	1043	1.65%	
19.661	Unidentified	1055	0.01%	
20.462	Octanol	1067	0.03%	
21.475	Terpinolene	1083	0.02%	
22.415	Linalool	1097	2.72%	IFRA
24.368	allo-Ocimene	1126	0.02%	
28.960	alpha-Terpineol	1193	0.03%	
30.957	Nerol	1222	0.09%	
31.883	Neral	1235	0.14%	IFRA
32.960	Geraniol	1251	75.45%	IFRA
33.931	Geranial	1265	0.33%	IFRA
34.865	trans-Carvone oxide	1279	0.01%	IFRA
35.260	Unidentified	1285	0.02%	
35.967	Geranyl formate	1295	0.07%	
38.233	Unidentified	1330	0.03%	
39.939	Unidentified	1356	0.01%	
41.261	Geranyl acetate	1376	15.02%	
41.865	Unidentified	1385	0%	
41.969	beta-Elementene	1387	0.08%	
42.854	Unidentified	1400	0.01%	
43.869	beta-Caryophyllene	1416	1.38%	
44.055	Unidentified	1419	0.01%	
46.107	alpha-Humulene	1452	0.07%	
47.866	Selina-4,11-diene	1480	0.04%	
48.400	Valencene	1489	0.03%	
50.014	7-epi-alpha-Selinene	1516	0.02%	
51.745	Unidentified	1545	0.01%	



Ret. Time	Component	Ret. Idx.	Conc. %	
52.202	Geranyl butyrate	1552	0.19%	
52.501	trans-Nerolidol	1558	0.05%	
53.723	Caryophyllene oxide	1578	0.11%	
55.057	Geranyl isovalerate	1601	0.02%	
61.240	(2E,6E)-Farnesol	1711	0.37%	IFRA
63.079	Geraniol hexanoate	1745	0.81%	
63.976	Benzyl benzoate	1762	0.01%	IFRA
67.461	Farnesyl acetate	1829	0.05%	
73.057	Geranyl octanoate	1940	0.11%	

Total Identified Compounds **99.89 %**

