



Essential Oil University

GC/MS Report

Item	Lot
Priprioca EO <i>Cyperus articulatus</i>	1N
Date	Analyst
1/23/2025	Dr. Robert S. Pappas

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The analysis of this batch sample, Priprioca EO, meets the expected chemical profile for authentic essential oil of *Cyperus articulatus*. 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:** Priprioca EO**Botanical Name:** Cyperus articulatus**Lot Number:** 1N**Production Method:** Hydrodistillation**Sample Type:** EO - Single**Country of Origin:** Brazil**Analysis Date:** 1/23/2025**Manufacture Date:** August 2023

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



Ret. Time	Component	Ret. Idx.	Conc. %	
11.298	alpha-Pinene	917	5.19%	
12.347	Thuja-2,4(10)-diene	937	0.84%	
13.662	beta-Pinene	960	2.57%	
15.239	1,3,8-para-Menthatriene	989	0.19%	
16.428	para-Cymene	1009	0.59%	
16.705	Limonene	1013	0.44%	IFRA
19.421	Pinol	1055	0.54%	
20.616	Dehydro-para-cymene	1074	0.43%	
23.970	trans-Pinocarveol	1124	2.52%	
24.293	trans-Verbenol	1129	0.41%	
24.628	beta-Phellandrene-8-ol	1134	0.34%	
26.086	alpha-Phellandrene-8-ol	1155	1.04%	
26.675	Terpinen-4-ol	1164	0.28%	
27.144	para-Cymen-8-ol	1170	0.38%	
27.703	Myrtenol	1179	3.43%	
28.482	Verbenone	1190	1.56%	
29.300	trans-Carveol	1202	0.28%	
39.203	Cyclosativene	1349	0.55%	
39.651	alpha-Copaene	1356	4.43%	
41.361	Cyperene	1382	2.82%	
41.556	cis-Thujopsadiene	1385	2.6%	
45.041	Rotundene	1440	1.34%	
45.140	Cuparene	1442	0.19%	
45.682	Unidentified	1450	0.54%	
45.900	Unidentified	1454	0.96%	
45.994	Dodecanol	1455	0.3%	
46.629	3,5,11-Eudesmatriene	1466	1.34%	
46.766	beta-Selinene	1468	3.92%	
47.169	Unidentified	1474	0.4%	
47.274	beta-Atlantol	1476	0.59%	
47.378	Unidentified	1478	0.81%	
47.547	alpha-Bulnesene	1480	1.27%	
47.640	Spathulenol	1482	0.35%	
48.554	delta-Cadinene	1496	0.3%	
48.753	trans-Calamenene	1500	0.68%	
49.270	Nootkatene	1508	2.19%	
49.908	alpha-Calacorene	1519	1.03%	
51.384	Dodecanoic acid	1544	0.85%	
51.499	Unidentified	1546	1.81%	
51.749	Unidentified	1550	0.67%	



Ret. Time	Component	Ret. Idx.	Conc. %
52.138	Unidentified	1557	0.32%
52.295	Caryophyllene oxide	1559	2.4%
52.501	Spathulenol	1563	0.8%
52.654	Copaen-4-alfa-ol <beta->	1565	0.41%
53.499	Unidentified	1579	0.45%
53.916	Humulene epoxide II	1586	0.82%
54.336	Unidentified	1593	0.35%
54.817	Unidentified	1602	0.51%
55.488	Caryophylla-4(12),8(13)-dien-5-beta-ol	1614	0.66%
56.076	Unidentified	1624	0.9%
56.648	Pogostol	1634	3.06%
56.852	Aristol-9-en-8-one	1638	0.89%
57.157	Cubebol	1643	1.32%
57.445	Spathulenol	1648	0.75%
57.619	Mustakone	1651	10.93%
57.870	Pentadecanol	1656	0.66%
58.018	Unidentified	1658	1.2%
58.155	Unidentified	1661	0.35%
58.758	Cyperotundone	1671	2.28%
58.867	Unidentified	1673	0.34%
58.990	Unidentified	1676	0.59%
59.173	Unidentified	1679	3.6%
59.295	Unidentified	1681	0.36%
59.438	Unidentified	1684	0.85%
59.560	Unidentified	1686	0.45%
59.819	Unidentified	1690	0.3%
60.120	Altantone isomer	1696	0.76%
60.256	Unidentified	1698	0.68%
60.325	Unidentified	1699	0.64%
60.776	Unidentified	1708	0.58%
60.897	Unidentified	1710	0.62%
61.459	Unidentified	1720	7.52%
62.475	Unidentified	1739	0.48%
62.719	Unidentified	1744	0.7%
63.687	Unidentified	1762	0.4%
68.853	Corymbolone	1861	0.76%
102.662	Unidentified	2646	0.33%

Total Identified Compounds **72.28 %**

