



Essential Oil University

GC/MS Report

Item	Lot
Ocotea (Ishpingu) EO <i>Ocotea quixos</i>	4W
Date	Analyst
1/17/2025	Dr. Robert S. Pappas

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The analysis of this batch sample, Ocotea (Ishpingu) EO, meets the expected chemical profile for authentic essential oil of *Ocotea quixos*. 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:** Ocotea (Ishpingu) EO**Botanical Name:** Ocotea quixos**Lot Number:** 4W**Production Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** Ecuador**Analysis Date:** 1/17/2025**Manufacture Date:** December 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

-.16

1.52424

0.97760



Ret. Time	Component	Ret. Idx.	Conc. %	
9.985	Styrene	890	0.02%	
11.616	alpha-Thujene	923	0.08%	
12.018	alpha-Pinene	930	3.63%	
12.900	Camphene	947	0.17%	
13.540	Benzaldehyde	958	0.22%	IFRA
14.149	Sabinene	970	0.52%	
14.448	beta-Pinene	975	2.58%	
15.073	Myrcene	987	0.11%	
16.769	alpha-Terpinene	1015	0.07%	
17.249	para-Cymene	1022	0.07%	
17.542	Limonene	1027	1.21%	IFRA
17.720	1,8-Cineole	1030	1.77%	
18.617	trans-beta-Ocimene	1043	0.02%	
19.394	gamma-Terpinene	1055	0.12%	
21.181	Terpinolene	1083	0.04%	
22.129	Linalool	1098	0.3%	IFRA
23.057	4,8-Dimethyl-nona-1,3,7-triene	1111	0.09%	
26.387	Hydrocinnamaldehyde	1160	0.04%	
27.052	Borneol	1169	0.03%	
27.235	2-Methylbenzofuran	1172	0.03%	
27.655	Terpinen-4-ol	1178	0.16%	
28.659	alpha-Terpineol	1193	0.25%	
33.924	trans-Cinnamaldehyde	1270	5.23%	IFRA
34.859	trans-Anethole	1284	0.04%	
36.131	trans-Cinnamyl alcohol	1303	0.21%	IFRA
37.871	delta-Elemene	1329	0.1%	
38.863	alpha-Cubebene	1344	0.4%	
40.260	alpha-Ylangene	1366	0.03%	
40.308	Isolatedene	1366	0.15%	
40.731	alpha-Copaene	1373	2%	
41.325	trans-Methyl cinnamate	1382	11.21%	
41.528	beta-Cubebene	1385	0.13%	
41.636	beta-Elemene	1387	0.35%	
42.319	Methyleugenol	1397	0.02%	IFRA
42.478	alpha-Funebrene	1400	0.13%	
42.587	cis-beta-Caryophyllene	1401	0.07%	
43.564	beta-Caryophyllene	1417	17.63%	
44.156	gamma-Elemene	1426	0.04%	
44.383	trans-alpha-Bergamotene	1430	0.1%	
44.516	alpha-Guaiene	1432	0.15%	



Ret. Time	Component	Ret. Idx.	Conc. %	
44.703	Aromadendrene	1435	0.07%	
44.876	Unidentified	1438	0.06%	
45.235	trans-Cinnamyl acetate	1444	23.66%	
45.372	Unidentified	1446	0.14%	
45.646	trans-beta-Farnesene	1450	0.15%	
45.771	alpha-Humulene	1452	2.13%	
45.922	Unidentified	1455	0.06%	
46.038	Unidentified	1457	0.08%	
46.679	4,5-di-epi-Aristolochene	1467	0.04%	
46.801	Cadina-1(6),4-diene	1469	0.09%	
46.990	gamma-Murolene	1472	0.12%	
47.182	gamma-Curcumene	1475	0.04%	
47.249	alpha-Amorphene	1476	0.05%	
47.361	Germacrene D	1478	0.14%	
47.532	Selina-4,11-diene	1481	0.26%	
47.858	beta-Selinene	1486	5.1%	
47.986	Viridiflorene	1488	0.13%	
48.049	Valencene	1489	0.13%	
48.260	trans-Methyl isoeugenol	1492	4.73%	
48.295	alpha-Selinene	1493	0.89%	
48.451	apha-Murolene	1495	0.08%	
48.609	cis-alpha-Bisabolene	1498	0.07%	
48.720	Unidentified	1500	0.06%	
48.826	trans,trans-alpha-Farnesene	1501	0.06%	
49.023	beta-Bisabolene	1505	0.26%	
49.127	beta-Curcumene	1507	0.1%	
49.320	gamma-Cadinene	1510	0.04%	
49.439	Cubebol	1512	0.02%	
49.631	delta-Cadinene	1515	1.46%	
49.822	cis-Calamenene	1518	0.08%	
49.966	beta-Sesquiphellandrene	1521	0.07%	
50.145	trans-gamma-Bisabolene	1524	1.45%	
50.468	trans-Cadina-1,4-diene	1529	0.06%	
50.725	Unidentified	1534	0.03%	
50.977	beta-Calacorene	1538	0.39%	
51.395	Elemol	1545	0.05%	
51.543	Unidentified	1547	0.09%	
52.010	Germacrene B	1555	0.06%	
52.191	trans-Nerolidol	1558	0.11%	
52.245	Unidentified	1559	0.04%	



Ret. Time	Component	Ret. Idx.	Conc. %	
52.842	Unidentified	1569	0.1%	
52.925	Dendrolasin	1571	0.3%	
53.068	Spathulenol	1573	0.58%	
53.381	Caryophyllene oxide	1578	3.17%	
53.595	Globulol	1582	0.17%	
54.087	Viridiflorol	1590	0.1%	
54.239	Guaiol	1593	0.08%	
54.375	Unidentified	1595	0.03%	
54.585	Unidentified	1599	0.04%	
54.682	Unidentified	1600	0.04%	
54.828	Rosifoliol	1603	0.04%	
54.985	Humulene epoxide II	1606	0.24%	
55.281	Tetradecanal	1611	0.1%	
55.436	Intermedeol	1614	0.12%	
55.707	Humulane-1,6-dien-3-ol	1619	0.09%	
55.821	Unidentified	1621	0.04%	
55.929	Muurola-4,10(14)-dien-1-beta-ol	1623	0.2%	
56.023	Epicubenol	1624	0.09%	
56.310	Unidentified	1629	0.26%	
56.534	Caryophylla-4(12),8(13)-dien-5-beta-ol	1633	0.4%	
56.878	Cubenol isomer	1640	0.06%	
56.935	Unidentified	1641	0.03%	
57.075	Unidentified	1643	0.07%	
57.580	14-Hydroxy-9-epi-(Z)-Caryophyllene	1652	0.22%	
57.727	Selin-11-en-4-alpha-ol	1655	0.14%	
58.077	Intermedeol	1661	0.05%	
58.274	Unidentified	1664	0.04%	
58.405	Unidentified	1667	0.33%	
58.521	Cadalene	1669	0.06%	
59.272	epi-alpha-Bisabolol	1682	0.04%	IFRA
59.390	alpha-Bisabolol	1684	0.09%	IFRA
63.615	Benzyl benzoate	1762	0.52%	IFRA

Total Identified Compounds **98.47 %**

