



Essential Oil University

GC/MS Report

Item	Lot
Vetiver EO Hydrodiffused <i>Vetiveria zizanioides</i>	7E
Date	Analyst
11/13/2025	Dr. Robert S. Pappas

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The analysis of this batch sample, Vetiver EO Hydrodiffused, meets the expected chemical profile for authentic essential oil of *Vetiveria zizanioides*. 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:** Vetiver EO Hydrodiffused**Botanical Name:** Vetiveria zizanioides**Lot Number:** 7E**Production Method:** Hydrodiffused**Sample Type:** EO - Single**Country of Origin:** Haiti**Analysis Date:** 11/13/2025**Manufacture Date:** October 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

+37.76

1.52395

0.99945



Ret. Time	Component	Ret. Idx.	Conc. %	
3.161	Unidentified	516	0.01%	
12.825	alpha-Pinene	931	0.01%	ALLERGEN
18.521	Limonene	1027	0.01%	ALLERGEN IFRA
40.347	Unidentified	1348	0.01%	
41.352	Unidentified	1363	0.01%	
41.596	Unidentified	1367	0.23%	
42.447	2-epi-alpha-Funebrene	1379	0.05%	
42.760	Unidentified	1384	0.07%	
42.903	beta-Elemene	1386	0.03%	
43.306	Nigritene	1392	0.02%	
44.246	Acora-3,7(14)-diene	1407	0.09%	
44.584	beta-Cedrene	1412	0.12%	IFRA
44.769	Unidentified	1415	0.09%	
45.045	Unidentified	1420	0.04%	
45.139	beta-Cedrene	1421	0.07%	IFRA
45.220	Unidentified	1423	0.05%	
45.545	(+)-epi-Bicyclosquiphellandrene	1428	0.13%	
45.895	Unidentified	1433	0.04%	
46.203	Guaia-6,9-diene	1438	0.17%	
46.381	Unidentified	1441	0.02%	
46.859	Prezizaene	1449	0.45%	
47.148	Khusimene	1453	0.59%	
47.254	Unidentified	1455	0.35%	
47.627	Unidentified	1461	0.1%	
47.775	Unidentified	1463	0.06%	
47.809	11,12,13-tri-nor-cis-Eudesm-5-en-7-one	1464	0.09%	
48.000	(E)-Eremophila-1(10),7(11)-dien-12-yl acetate	1467	0.2%	
48.163	gamma-Murolene	1470	0.03%	
48.566	alpha-Amorphene	1476	1.27%	
48.678	Unidentified	1478	0.06%	
48.809	alpha-Vetispiorene	1480	0.14%	
49.048	delta-Selinene	1484	0.63%	
49.178	beta-Vetispiorene	1486	0.81%	
49.392	trans-Murrola-4(14),5-diene	1489	0.46%	
49.582	Cubebol	1492	0.09%	
49.781	gamma-Cadinene	1495	0.12%	
49.945	Unidentified	1498	0.06%	
50.032	Cadinene analogue	1499	0.52%	
50.156	Unidentified	1501	0.2%	
50.313	Unidentified	1504	0.04%	



Ret. Time	Component	Ret. Idx.	Conc. %
50.443	Unidentified	1506	0.09%
50.705	Nootkatene	1511	0.19%
50.755	Unidentified	1512	0.31%
50.955	delta-Cadinene	1515	0.12%
51.029	Selina-4(15),7(11)-diene	1516	0.82%
51.225	Zonarene	1519	0.06%
51.462	gamma-Vetivenene	1523	0.16%
51.607	Unidentified	1526	0.11%
51.797	Unidentified	1529	0.04%
52.079	Selina-4(15),7(11)-diene	1534	0.12%
52.232	Unidentified	1536	0.18%
52.306	alpha-Calacorene	1538	0.19%
52.718	alpha-Elemol	1545	0.58%
52.805	Unidentified	1546	0.08%
52.895	Unidentified	1548	0.05%
53.067	beta-Vetivenene	1550	1.9%
53.295	Unidentified	1554	0.07%
53.495	Unidentified	1558	0.12%
53.614	cis-Eudesm-6-en-11-ol	1560	2.31%
53.715	Unidentified	1561	0.09%
53.962	Unidentified	1565	0.11%
54.057	Unidentified	1567	0.1%
54.160	Unidentified	1569	0.12%
54.266	Unidentified	1571	0.46%
54.345	Unidentified	1572	0.1%
54.601	Unidentified	1576	0.22%
54.748	Unidentified	1579	0.64%
54.874	3,5,11-Eudesmatriene	1581	0.61%
55.000	Unidentified	1583	0.05%
55.183	Unidentified	1586	0.25%
55.397	Unidentified	1590	0.57%
55.642	Unidentified	1594	0.26%
55.783	Cedrol	1596	0.13%
55.879	Unidentified	1598	0.11%
56.101	Khusimone	1602	0.78%
56.295	Unidentified	1605	0.4%
56.525	Unidentified	1609	0.1%
56.626	3,5,11-Eudesmatriene isomer	1611	0.71%
56.685	Unidentified	1612	0.49%
57.010	Germacren D-4-ol	1618	2.02%



Ret. Time	Component	Ret. Idx.	Conc. %
57.138	Intermedeol	1620	2.79%
57.415	Unidentified	1625	1.03%
57.632	Unidentified	1629	0.8%
57.757	Epicubenol	1631	0.66%
57.857	Unidentified	1633	0.37%
58.023	Unidentified	1636	0.17%
58.152	Unidentified	1638	0.29%
58.295	Unidentified	1640	0.51%
58.465	Unidentified	1643	0.28%
58.584	Unidentified	1646	0.77%
58.860	Unidentified	1650	1.39%
58.901	Cadin-4-en-10-ol	1651	2.75%
59.071	Cyclocopacamphan-12-ol epimer A	1654	2.29%
59.251	Cyclocopacamphan-12-ol, epimer B	1657	1.85%
59.489	Unidentified	1662	1.48%
59.768	Unidentified	1667	1.83%
59.952	Khusian-2-ol	1670	0.48%
60.183	2-epi-Ziza-6(13)-en-3-alpha-ol	1674	1.55%
60.320	2-epi-Ziza-6(13)-en-3-beta-ol	1676	0.26%
60.450	Unidentified	1679	0.12%
60.579	Unidentified	1681	0.37%
60.750	Unidentified	1684	0.54%
60.822	Unidentified	1685	1.7%
61.131	Unidentified	1691	0.43%
61.342	Selin-7(11)-en-4-ol	1694	1.76%
61.481	2-epi-Ziza-6(13)-en-3-alpha-ol isomer	1697	0.94%
61.706	Methyl ziza-6(13)-en-12-oate isomer	1701	0.26%
61.842	Unidentified	1703	0.36%
61.979	13-nor-Eudesma-4,6-dien-11-one	1706	0.7%
62.134	Nootkatol	1709	0.67%
62.417	Vetiselinol isomer	1714	0.31%
62.610	Vetiselinol	1718	0.12%
62.746	Vetiselinol	1720	4.78%
63.063	Unidentified	1726	1.35%
63.267	Oplopanone	1730	0.35%
63.659	Zizanol	1737	3.6%
63.860	Unidentified	1741	0.66%
64.019	Khusimol	1744	10.15%
64.187	Unidentified	1747	0.47%
64.441	Unidentified	1752	0.21%



Ret. Time	Component	Ret. Idx.	Conc. %	
64.580	Unidentified	1754	0.23%	
64.714	Khusimol analogue	1757	0.19%	
64.890	Unidentified	1760	0.27%	
64.936	13-Hydroxy valencene	1761	0.47%	
65.113	Unidentified	1764	0.44%	
65.263	Unidentified	1767	0.5%	
65.651	Isovalencenol isomer	1774	0.25%	
65.839	Unidentified	1778	0.11%	
66.095	trans-Isovalencenol	1783	9.74%	
66.306	cis-Isovalencenol	1787	2.07%	
66.502	Unidentified	1790	0.34%	
66.919	Nootkatone	1798	1.37%	IFRA
67.278	cis-Isovalencenal	1805	0.63%	
67.416	beta-Vetivone	1808	2.62%	
67.584	Unidentified	1811	0.1%	
67.827	Unidentified	1816	0.09%	
68.081	trans-Isovalencenal	1821	1.16%	
68.170	Unidentified	1822	0.14%	
68.410	Isovalencenol analogue	1827	0.04%	
68.546	Unidentified	1830	0.1%	
68.753	alpha-Vetivone	1834	3.49%	
68.940	Unidentified	1837	0.05%	
69.544	Unidentified	1849	0.05%	
69.741	Unidentified	1853	0.08%	
70.176	Unidentified	1862	0.02%	
70.784	Unidentified	1874	0.02%	
71.044	Unidentified	1879	0.03%	
71.228	Isovalencenyl formate analogue	1882	0.14%	
71.548	Isovalencenol analogue	1888	0.04%	
71.788	Isovalencenyl formate	1893	0.15%	
72.429	Unidentified	1906	0.08%	
73.130	Unidentified	1920	0.1%	
73.875	Unidentified	1936	0.03%	
77.909	Unidentified	2019	0.01%	
80.086	Unidentified	2066	0.04%	
108.051	Unidentified	2761	0.05%	

Total Identified Compounds **75.43 %**



TIC
9,900,032

