

Sample Information

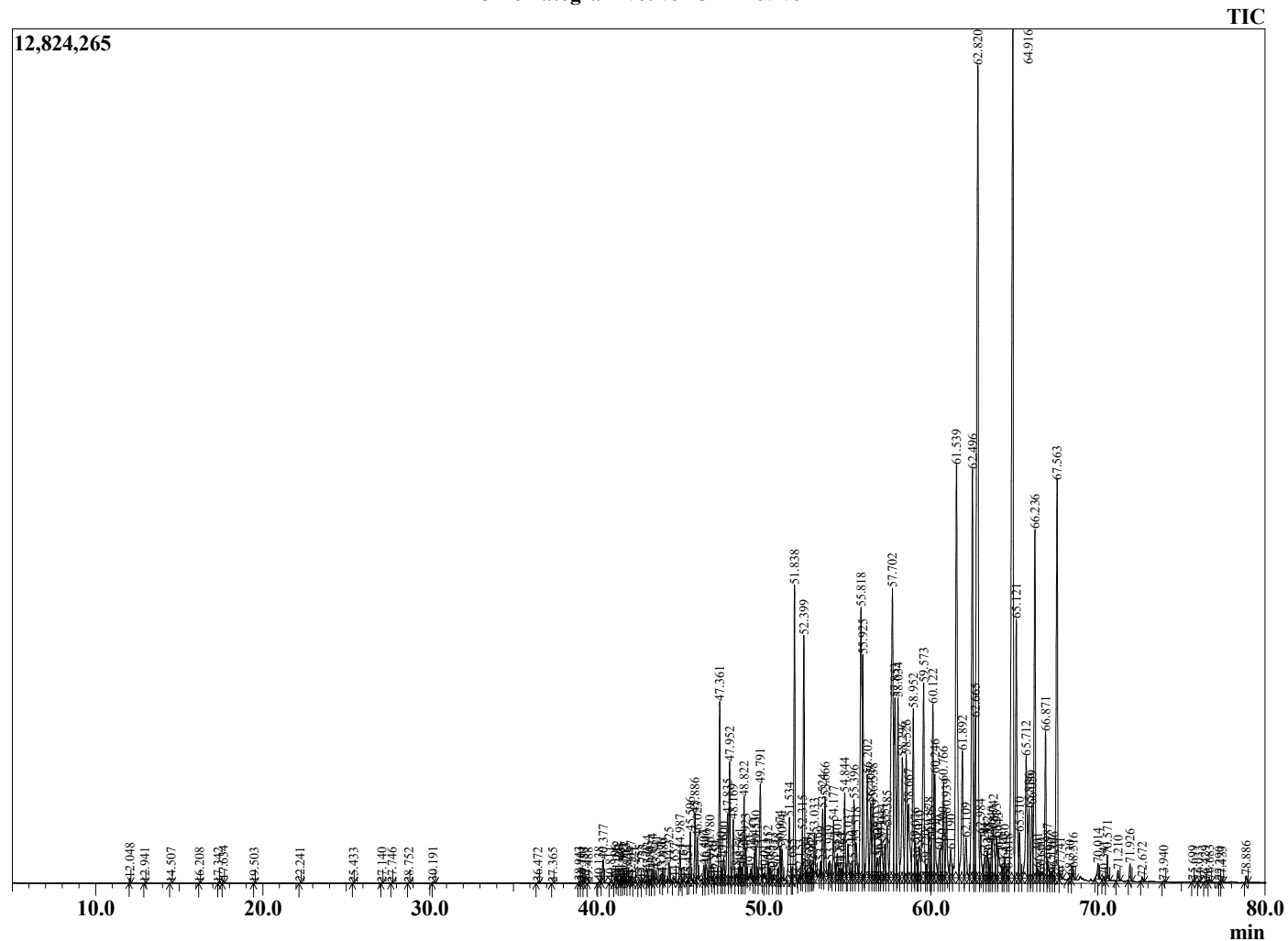
Analyzed by : Dr. Robert S. Pappas
 Analyzed : 12/08/2023 3:10:32 AM
 Sample Type : Essential Oil
 Sample Name : Vetiver Oil - Revive
 Sample ID : 1R
 Injection Volume : 0.10
 Instrument ID: : GC-2



Peak Report TIC

R.Time	Name	Area%
12.048	alpha-Pinene	0.02
12.941	Camphene	0.00
14.507	beta-Pinene	0.00
16.208	alpha-Phellandrene	0.00
17.342	para-Cymene	0.00
17.634	Limonene	0.02
19.503	gamma-Terpinene	0.00
22.241	Linalool	0.00
25.433	Camphor	0.00
27.140	Borneol	0.00
27.746	Terpinen-4-ol	0.00
28.752	alpha-Terpineol	0.00
30.191	4-Vinylphenol	0.01
36.472	4-Vinyl guaiacol	0.01
37.365	Unidentified	0.00
38.943	alpha-Cubebene	0.01
39.101	Unidentified	0.02
39.253	Unidentified	0.01
39.488	Unidentified	0.00
40.138	Unidentified	0.01
40.377	Cyclosativene	0.20
40.811	alpha-Copaene	0.01
41.106	Unidentified	0.01
41.212	2-epi-alpha-Funebrene	0.02
41.327	Unidentified	0.01
41.495	Unidentified	0.04
41.583	Unidentified	0.02
41.713	beta-Elemene	0.02
41.836	Sativene	0.00
42.047	Nigritene	0.04
42.221	Unidentified	0.01
42.555	Cyperene+alpha-Gurjunene	0.03
42.755	Unidentified	0.03
43.034	Acora-3,7(14)-diene	0.08
43.180	alpha-Cedrene	0.01
43.334	2-epi-beta-Funebrene	0.10
43.541	beta-Maaliene+Unidentified	0.11
43.876	Unidentified	0.08
43.980	Guaiadiene analogue	0.07
44.325	(+)-epi-Bicyclosquiphellandrene	0.13
44.657	Unidentified	0.05
44.987	Guaia-6,9-diene	0.24
45.161	Acora-2,4(15)-diene	0.02
45.454	trans-Murrola-3,5-diene	0.01
45.596	Prezizaene	0.35
45.886	Khusimene	0.48
46.023	Unidentified	0.30
46.407	Unidentified	0.12
46.540	Unidentified	0.18
46.780	(E)-Eremophila-1(10),7(11)-dien-12-yl acetat	0.21
46.919	Unidentified	0.02
47.159	Unidentified	0.05
47.361	alpha-Amorphene	1.38
47.440	alpha-Neocallitropsene	0.08
47.600	alpha-Vetispiroene	0.18
47.835	delta-Selinene	0.71
47.952	beta-Vetispiroene	0.86
48.169	trans-Murrola-4(14),5-diene	0.47
48.372	Cubebol isomer	0.07
48.561	Unidentified	0.13
48.715	Spirovetiva-3,7(11)-dien-12-yl methyl ether	0.09
48.822	delta-Amorphene	0.68

Chromatogram Vetiver Oil - Revive



Comments:

The analysis of this Vetiver batch sample 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.

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R.Time	Name	Area%
48.923	Unidentified	0.21
49.221	Unidentified	0.06
49.453	Nootkatene	0.19
49.530	Unidentified	0.26
49.791	delta-Cadinene	0.83
50.011	Zonarene	0.04
50.252	gamma-Vetivenene	0.14
50.371	Unidentified	0.11
50.577	Unidentified	0.04
50.838	Selina-4(15),7(11)-diene	0.09
50.974	Unidentified	0.25
51.094	alpha-Calacorene	0.24
51.534	Unidentified+alpha-Elemol	0.69
51.685	Unidentified	0.04
51.838	beta-Vetivenene	2.24
52.153	Germacrene B	0.04
52.315	Unidentified	0.22
52.399	cis-Eudesm-6-en-11-ol	1.96
52.551	Unidentified	0.05
52.695	Unidentified	0.04
52.821	Unidentified	0.08
52.922	Unidentified	0.05
53.033	Unidentified	0.38
53.399	Unidentified	0.09
53.524	Unidentified	0.50
53.666	3,5,11-Eudesmatriene	0.63
53.949	Bulnesol	0.14
54.177	Unidentified	0.46
54.401	Esquel-6-en-9-one	0.21
54.524	Cedrol	0.06
54.663	Unidentified	0.07
54.844	Khusimone	0.65
55.037	Unidentified	0.30
55.310	1,10-di-epi-Cubenol	0.07
55.396	3,5,11-Eudesmatriene	0.70
55.518	Unidentified	0.39
55.818	Unidentified	2.86
55.925	Intermedeol	1.60
56.202	Unidentified	1.05
56.405	Unidentified	0.68
56.538	Epicubenol	0.69
56.639	Unidentified	0.32
56.805	Unidentified	0.20
56.941	Unidentified	0.17
57.044	Unidentified	0.43
57.255	Unidentified	0.32
57.385	Cadinol analogue	0.56
57.702	Unidentified + Cadinol analogue	4.12
57.853	Cyclocopacamphan-12-ol epimer A	1.99
58.034	Cyclocopacamphan-12-ol epimer B	1.52
58.296	Unidentified	1.34
58.526	Unidentified	1.37
58.667	beta-Bisabolol + Unidentified	0.92
58.952	2-epi-Ziza-6(13)-en-3-alpha-ol	1.53
59.076	2-epi-Ziza-6(13)-en-3-beta-ol	0.32
59.220	Unidentified	0.12
59.310	Unidentified	0.33
59.573	Unidentified+Khusian-2-ol	2.19
59.720	Unidentified	0.09
59.878	Unidentified	0.43
60.035	Unidentified	0.27
60.122	Selin-7(11)-en-4-ol	1.60
60.246	2-epi-Ziza-6(13)-en-3-alpha-ol isomer	0.91

R.Time	Name	Area%
60.520	Unidentified	0.25
60.700	Unidentified	0.41
60.766	13-nor-Eudesma-4,6-dien-11-one	0.78
60.939	Nootkatol	0.68
61.190	Unidentified	0.29
61.539	Vetiselinenol	4.86
61.892	Unidentified	1.44
62.109	Oplopanone	0.42
62.496	Zizanol	3.89
62.665	epi-Zizanal	0.94
62.820	Khusimol	9.86
62.984	Unidentified	0.43
63.241	Unidentified	0.23
63.382	Unidentified	0.24
63.470	Unidentified	0.14
63.640	Unidentified	0.31
63.742	Unidentified	0.60
63.933	Unidentified	0.40
64.043	Unidentified	0.43
64.310	Unidentified	0.08
64.430	cis-Isovalencenol	0.19
64.618	Unidentified	0.09
64.916	trans-Isovalencenol	9.90
65.121	Unidentified	2.44
65.310	Unidentified	0.42
65.712	Nootkatone	1.39
65.886	Zizanoic acid	0.72
66.059	cis-Isovalencenal	0.63
66.236	beta-Vetivone	2.99
66.401	Unidentified	0.10
66.600	Unidentified	0.09
66.871	trans-Isovalencenal	1.18
66.987	Unidentified	0.18
67.190	Unidentified	0.05
67.366	Unidentified	0.09
67.563	alpha-Vetivone	3.65
67.741	Unidentified	0.06
68.330	Unidentified	0.03
68.516	Unidentified	0.09
70.014	Unidentified	0.15
70.341	Unidentified	0.03
70.571	Isovalencenyl formate	0.19
71.210	Unidentified	0.09
71.926	Unidentified	0.14
72.672	Unidentified	0.04
73.940	Unidentified	0.01
75.699	Unidentified	0.01
76.033	Unidentified	0.01
76.429	Unidentified	0.01
76.683	Unidentified	0.02
77.290	Unidentified	0.01
77.433	Unidentified	0.01
78.886	Unidentified	0.05
106.728	Unidentified	0.02
		100.00