

Sample Information

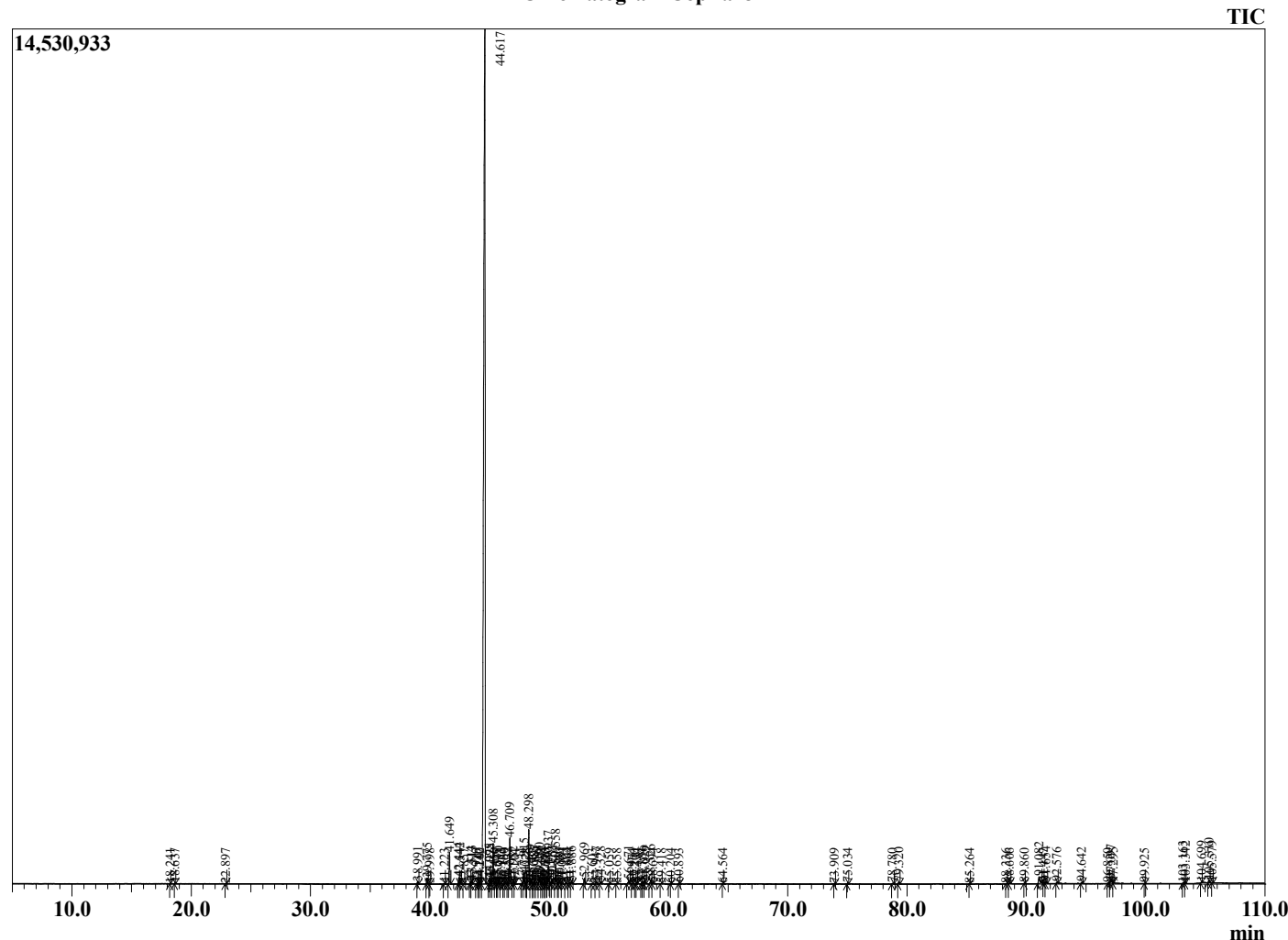
Analyzed by : Dr. Robert S. Pappas
Analyzed : 2/23/2023 6:57:06 PM
Sample Type : Essential Oil
Sample Name : Copaiba Balsam Oil - Revive
Sample ID : 3C
Injection Volume : 0.10
Instrument ID: : GC-3



Peak Report TIC

R.Time	Name	Area%
18.241	Limonene	0.01
18.637	cis-beta-Ocimene	0.03
22.897	Linalool	0.01
38.991	delta-Elemene	0.13
39.775	alpha-Cubebene	0.29
39.998	Eugenol	0.02
41.223	alpha-Ylangene	0.02
41.649	alpha-Copaene	1.54
42.444	beta-Cubebene	0.34
42.542	beta-Elemene	0.31
42.857	Unidentified	0.03
43.414	Cyperene	0.10
43.513	cis-beta-Caryophyllene	0.17
43.919	Unidentified	0.03
44.140	cis-alpha-Bergamotene	0.03
44.202	Unidentified	0.06
44.617	beta-Caryophyllene	80.72
44.995	Unidentified	0.27
45.078	gamma-Elemene	0.29
45.308	trans-alpha-Bergamotene	2.04
45.450	Unidentified	0.02
45.645	Aromadendrene	0.04
45.770	Sesquisabinene	0.13
45.952	13-nor-Eudesm-5-en-11-one	0.03
46.180	epi-beta-Santalene	0.02
46.309	trans-Murrola-3,5-diene	0.01
46.532	trans-beta-Farnesene	0.07
46.709	alpha-Humulene	2.31
46.982	Alloaromadendrene	0.13
47.104	cis-Muurolo-4(14),5-diene	0.01
47.734	10-beta-H-Cadina-1(6),4-diene	0.06
47.915	trans-Cadina-1(6),4-diene	0.58
48.078	gamma-Curcumene	0.04
48.298	Germacrene D	2.81
48.469	trans-beta-Bergamotene	0.21
48.667	delta-Selinene	0.02
48.785	beta-Selinene	0.18
48.989	trans-Murrola-4(14),5-diene	0.13
49.190	Bicyclogermacrene	0.37
49.372	alpha-Murolene	0.20
49.494	cis-alpha-Bisabolene	0.09
49.643	Unidentified	0.04
49.720	Unidentified	0.02
49.937	beta-Bisabolene	0.95
50.119	cis-gamma-Bisabolene	0.06
50.251	gamma-Cadinene	0.22
50.558	delta-Cadinene	0.95
50.740	cis-Calamenene	0.01
50.887	beta-Sesquiphellandrene	0.16
51.064	trans-gamma-Bisabolene	0.02
51.404	trans-Cadina-1,4-diene	0.06
51.664	alpha-Cadinene	0.06
51.886	trans-alpha-Bisabolene	0.13
52.969	Germacrene B	0.30
53.603	Unidentified	0.03
53.947	Caryophyllene alcohol	0.13
54.328	Caryophyllene oxide	0.12
55.059	Viridiflorol	0.02
55.658	Unidentified	0.02
56.671	Humulane-1,6-dien-3-ol	0.23
56.974	1-Epicubenol	0.03
57.200	Unidentified	0.01

Chromatogram CopLan3



Comments:

The analysis of this Copaiba Balsam batch sample meets the expected chemical profile for authentic essential oil of *Copaifera langsdorffii*. 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.

R.Time	Name	Area%
57.334	Unidentified	0.03
57.784	tau-Cadinol	0.05
57.876	epi-alpha-Cadinol	0.12
58.029	delta-Cadinol	0.16
58.526	alpha-Cadinol	0.25
58.694	Unidentified	0.03
59.418	beta-Bisabolol	0.02
60.204	alpha-Bisabolol	0.01
60.893	Unidentified	0.04
64.564	Unidentified	0.01
73.909	Unidentified	0.02
75.034	Kolaveolol	0.04
78.780	Manool	0.04
79.320	Unidentified	0.11
85.264	Unidentified	0.02
88.336	Unidentified	0.02
88.606	Unidentified	0.06
89.860	Unidentified	0.02
91.082	Copalol	0.54
91.447	Unidentified	0.01
91.654	Kolavenol	0.07
92.576	Kolavenol isomer	0.09
94.642	Unidentified	0.07
96.850	Unidentified	0.04
97.097	Unidentified	0.29
97.295	Unidentified	0.03
99.925	Unidentified	0.01
103.163	Unidentified	0.05
103.342	Unidentified	0.01
104.699	Unidentified	0.05
105.310	Unidentified	0.16
105.579	Unidentified	0.02
		100.00