

Sample Information

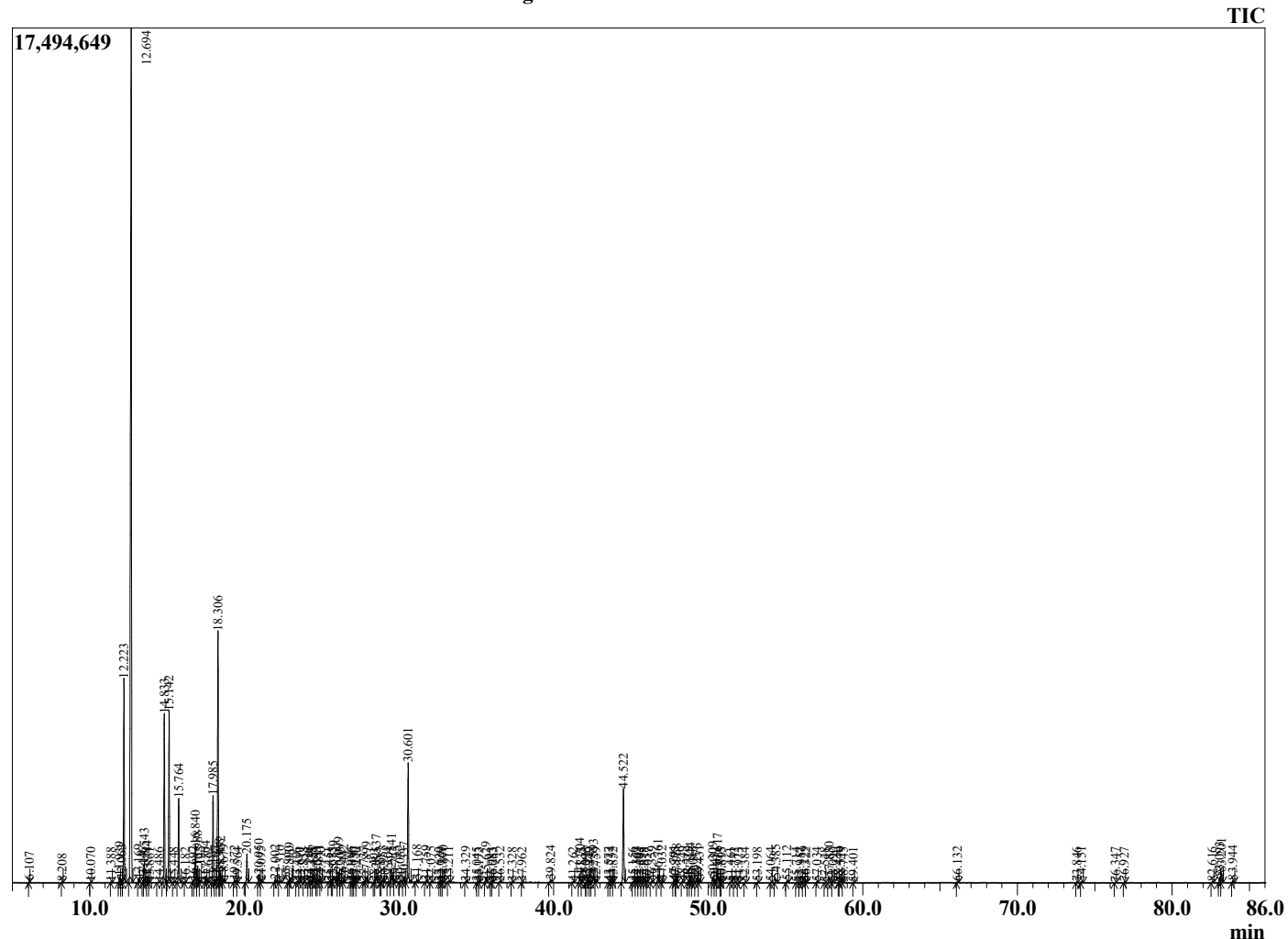
Analyzed by : Dr. Robert S. Pappas
 Analyzed : 2/9/2023 1:32:14 PM
 Sample Type : Essential Oil
 Sample Name : Boswellia carterii Oil - Revive
 Sample ID : 8V
 Injection Volume : 0.10
 Instrument ID : GC-3



Peak Report TIC

R.Time	Name	Area%
6.107	Toluene	0.05
8.208	6,6-Dimethylhepta-2,4-diene	0.01
10.070	Unidentified	0.01
11.388	2,6-Dimethyl 4-octene	0.02
11.939	Hashishene	0.18
12.063	Tricyclene	0.10
12.223	alpha-Thujene	6.72
12.694	alpha-Pinene	41.18
13.169	Thuja-2,4(10)diene isomer	0.10
13.446	alpha-Fenchene	0.02
13.543	Camphene	0.61
13.744	Thuja-2,4(10)-diene isomer	0.20
13.861	Camphene isomer	0.01
14.486	Unidentified	0.01
14.833	Sabinene	5.66
15.142	beta-Pinene	5.66
15.448	Camphene isomer	0.02
15.764	Myrcene	2.81
16.182	Unidentified	0.01
16.692	Pseudolimonene	0.06
16.840	alpha-Phellandrene	1.37
16.988	delta-3-Carene	0.57
17.145	Hexyl acetate	0.02
17.504	alpha-Terpinene	0.23
17.662	ortho-Cymene	0.02
17.985	para-Cymene	3.11
18.107	Unidentified	0.07
18.306	Limonene	9.56
18.398	beta-Phellandrene	0.24
18.472	1,8-Cineole	0.38
18.679	cis-beta-Ocimene	0.12
19.372	trans-beta-Ocimene	0.08
19.564	Unidentified	0.01
20.175	gamma-Terpinene	1.03
20.950	1-Octanol	0.31
21.095	Pinol	0.06
22.002	Terpinolene	0.12
22.310	para-Cymenene	0.10
22.890	Perillene	0.04
22.939	Linalool	0.19
23.406	Solusterol	0.03
23.611	Unidentified	0.03
23.858	Unidentified	0.01
24.206	beta-Thujone	0.08
24.333	Myrcenol	0.03
24.458	trans-para-Mentha-2,8-dienol	0.02
24.653	Unidentified	0.01
24.811	alpha-Campholenal	0.10
24.970	Octyl formate	0.03
25.451	cis-para-Mentha-2,8-dien-1-ol	0.01
25.685	trans-Sabinol	0.01
25.779	trans-Pinocarveol	0.35
26.099	trans-Verbenol	0.40
26.205	Unidentified	0.02
26.442	alpha-Phellandrene-8-ol	0.10
26.906	Sabina ketone	0.02
27.030	Unidentified	0.01
27.137	Pinocamphone	0.04
27.270	Unidentified	0.01
27.737	Unidentified	0.03
27.899	para-Mentha-1,5-dien-8-ol	0.21
28.401	Unidentified	0.01

Chromatogram Boswellia carterii Oil - Revive



Comments:

The analysis of this Frankincense batch sample meets the expected chemical profile for authentic essential oil of *Boswellia carterii*. 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%
28.537	Terpinen-4-ol	0.54
28.817	Unidentified	0.00
28.953	para-Cymen-8-ol	0.08
29.304	Unidentified	0.02
29.541	alpha-Terpineol	0.64
29.745	(E)-Anethole	0.04
30.082	alpha-Phellandrene epoxide	0.07
30.337	Verbenone	0.23
30.601	Octyl acetate	4.83
31.168	trans-Carveol	0.11
31.759	Decyl methyl ether	0.07
32.075	cis-Carveol	0.03
32.629	Unidentified	0.01
32.769	Unidentified	0.02
32.870	Carvone	0.06
33.211	Carvotanacetone + Unidentified	0.06
34.329	3,5-Dimethoxytoluene	0.03
35.045	Unidentified	0.01
35.173	Phellandral	0.01
35.629	Bornyl acetate	0.22
35.983	Unidentified	0.01
36.083	Unidentified	0.01
36.532	Carvacrol	0.04
37.328	Unidentified	0.01
37.962	Unidentified	0.00
39.824	alpha-Cubebene	0.12
41.262	Cyclosativene	0.03
41.704	alpha-Copaene	0.43
41.835	Geranyl acetate	0.02
42.095	Unidentified	0.01
42.227	beta-Bourbonene	0.11
42.349	Hexyl hexanoate	0.02
42.593	beta-Elemene	0.41
42.759	Unidentified	0.01
43.577	cis-beta-Caryophyllene	0.02
43.734	alpha-Gurjunene	0.05
43.852	Unidentified	0.01
44.522	beta-Caryophyllene	4.17
45.156	beta-Copaene	0.03
45.363	trans-alpha-Bergamotene	0.05
45.493	Unidentified	0.01
45.695	Aromadendrene	0.01
45.878	6,9-Guaiaadiene	0.03
46.057	Unidentified	0.01
46.359	Cadina-3,5-diene	0.07
46.761	alpha-Humulene	0.36
47.032	Alloaromodendrene	0.09
47.791	Cadina-1(6),4-diene	0.09
47.875	Unidentified	0.01
47.968	trans-Cadina-1(6),4-diene	0.16
48.349	Germacrene D	0.07
48.719	delta-Selinene	0.05
48.844	beta-Selinene	0.22
49.013	gamma-Amorphene	0.08
49.276	alpha-Selinene	0.22
49.431	alpha-Murolene	0.12
50.309	gamma-Cadinene	0.26
50.431	Cubebol	0.06
50.617	delta-Cadinene	0.66
50.815	cis-Calamenene	0.02
50.895	Zonarene	0.03
51.461	trans-Cadina-1,4-diene	0.03
51.712	alpha-Cadinene	0.03

R.Time	Name	Area%
51.973	alpha-Calacorene	0.02
52.384	alpha-Elemol	0.02
53.198	Unidentified	0.03
54.064	Spathulenol	0.02
54.385	Caryophyllene oxide	0.17
55.112	Viridiflorol	0.08
55.714	Unidentified	0.01
55.957	Copaborneol + Humulene epoxide II	0.07
56.229	Eudesmol isomer	0.05
56.322	Cubedol isomer	0.04
57.034	Epicubenol	0.04
57.548	Unidentified	0.01
57.830	tau-Cadinol	0.30
58.090	delta-Cadinol	0.02
58.440	Eudesmol isomer	0.00
58.579	Cubedol isomer	0.08
58.745	Unidentified	0.01
59.401	Unidentified	0.01
66.132	alpha-Phellandrene dimer	0.05
73.846	meta-Camphorene	0.03
74.151	Neocembrene	0.06
76.347	Unidentified	0.01
76.927	Verticilla-4(20),7,11-triene	0.03
82.616	Cembrenol	0.04
83.093	Incensole	0.28
83.201	Serratol	0.48
83.944	Incensyl acetate	0.12
		100.00