

Sample Information

Analyzed by : Dr. Robert S. Pappas
 Analyzed : 11/9/2018 1:14:31 AM
 Sample Type : Essential Oil
 Sample Name : Frankincense, sacra
 Sample ID : D0B1106H
 Injection Volume : 0.10
 Instrument ID: : GC-2

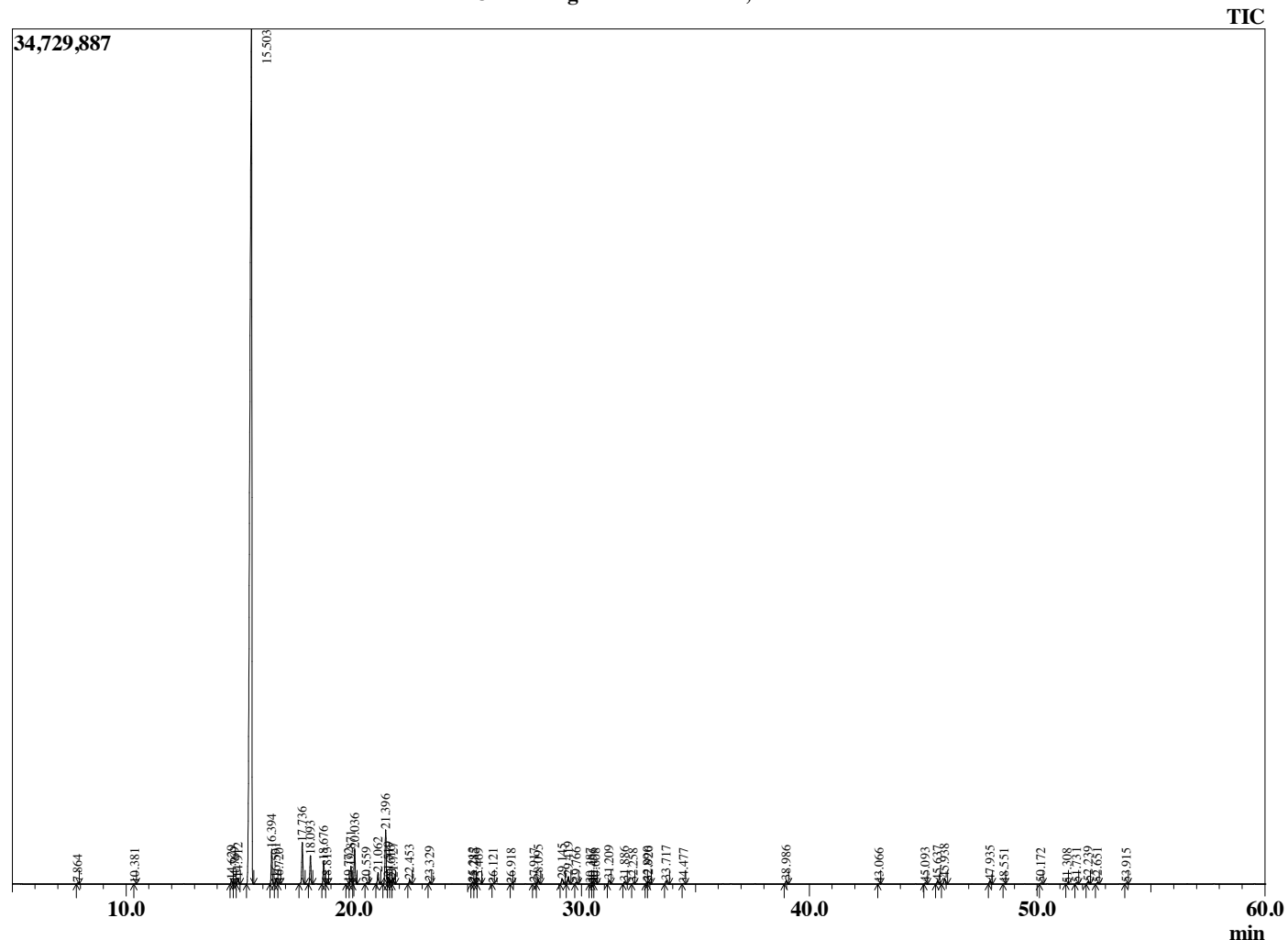
This report is valid for 1 year from the analyzed date.



Peak Report TIC

R.Time	Name	Area%
7.864	Toluene	0.04
10.381	6,6-Dimethylhepta-2,4-diene	0.02
14.629	Hashishene	0.20
14.769	Tricyclene	0.06
14.912	alpha-Thujene	0.33
15.503	alpha-Pinene	79.88
16.394	Camphene	1.74
16.591	Thuja-2,4(10)diene	0.31
16.720	Unidentified	0.05
17.736	Sabinene	2.23
18.093	beta-Pinene	1.51
18.676	Myrcene	1.22
18.813	Unidentified	0.07
19.772	Mentha-1,4,8-triene	0.06
19.871	alpha-Phellandrene	1.02
20.036	delta-3-Carene	1.95
20.559	alpha-Terpinene	0.07
21.062	para-Cymene	0.66
21.396	Limonene	3.13
21.519	beta-Phellandrene	0.37
21.616	1,8-Cineole	0.22
21.727	cis-beta-Ocimene	0.33
22.453	trans-beta-Ocimene	0.23
23.329	gamma-Terpinene	0.11
25.212	Terpinolene	0.09
25.285	Unidentified	0.03
25.469	Unidentified	0.06
26.121	Linalool	0.03
26.918	Thujol isomer	0.03
27.917	Unidentified	0.05
28.095	alpha-Campholenal	0.25
29.145	trans-Pinocarveol	0.38
29.419	trans-Verbenol	0.46
29.766	alpha-Phellandren-8-ol	0.11
30.387	Unidentified	0.04
30.496	trans-Pinocamphone	0.02
30.608	Pinocarvone	0.04
31.209	para-Mentha-1,5-dien-8-ol	0.24
31.886	Terpinen-4-ol	0.14
32.258	para-Cymen-8-ol	0.04
32.890	alpha-Terpineol	0.08
32.926	Myrtenal	0.18
33.717	Verbenone	0.22
34.477	trans-Carveol	0.04
38.986	Bornyl acetate	0.21
43.066	alpha-Terpinyol acetate	0.04
45.093	alpha-Copaene	0.07
45.637	beta-Bourbonene	0.22
45.938	beta-Elementene	0.39
47.935	beta-Caryophyllene	0.22
48.551	beta-Copaene	0.02
50.172	alpha-Humulene	0.06
51.308	trans-Cadina-1(6),4-diene	0.02
51.731	Germacrene D	0.08
52.239	beta-Selinene	0.16
52.651	alpha-Selinene	0.09
53.915	delta-Cadinene	0.06
		100.00

Chromatogram Frankincense, sacra



Comments:

The analysis of this Frankincense, sacra batch sample meets the expected chemical profile for authentic essential oil of *Boswellia sacra*. No contamination or adulteration was detected.