

Sample Information

Analyzed by : Dr. Robert S. Pappas  
 Analyzed : 11/19/2018 1:39:53 PM  
 Sample Type : Essential Oil  
 Sample Name : Peppermint Oil, India  
 Sample ID : Barefut-0112  
 Injection Volume : 0.10  
 Instrument ID : GC-3

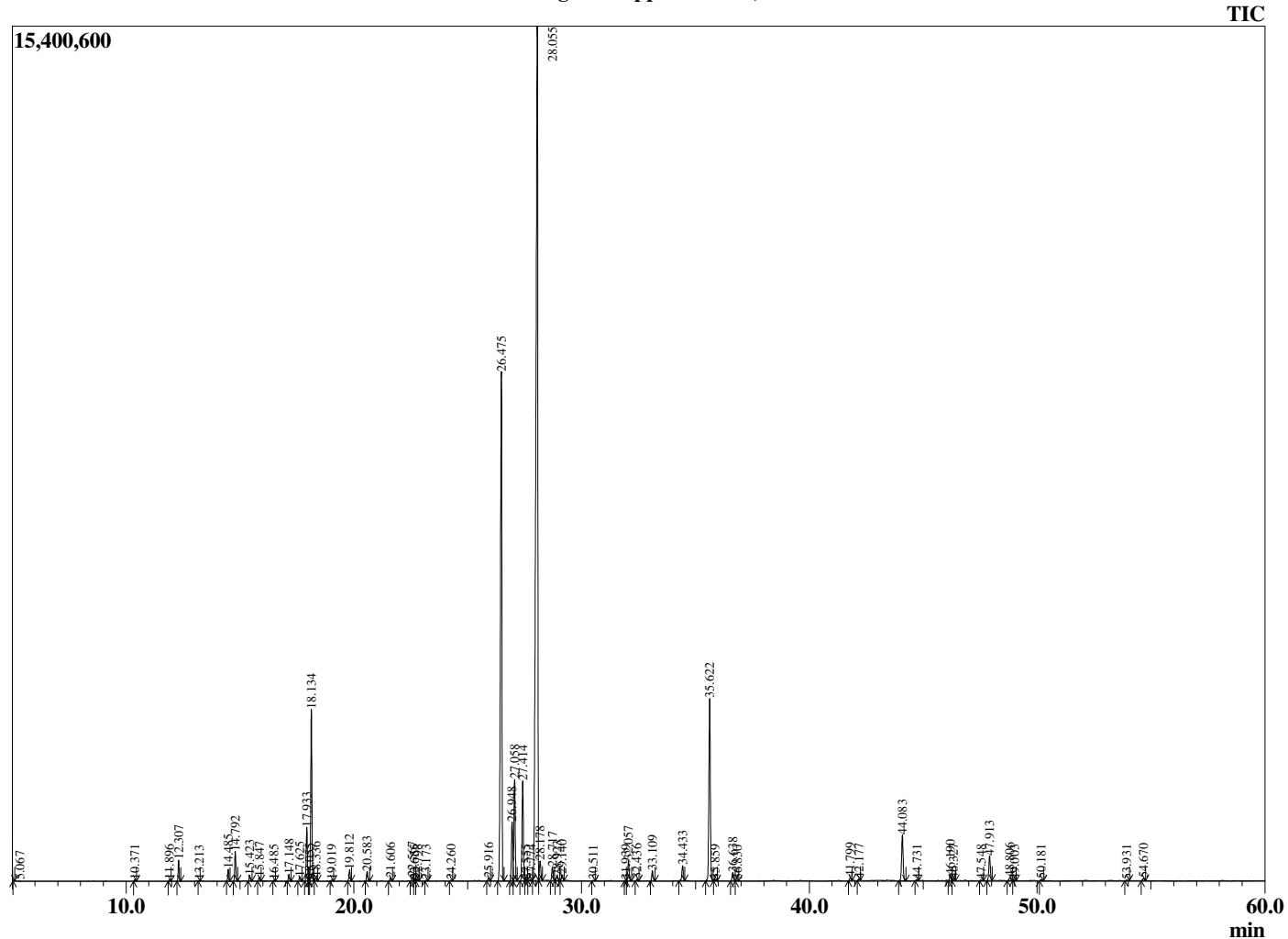


Peak Report TIC

R.Time	Name	Area%
5.067	1-Pentanol	0.01
10.371	2,5-Diethyltetrahydrofuran	0.03
11.896	alpha-Thujene	0.03
12.307	alpha-Pinene	0.56
13.213	Camphene	0.02
14.485	Sabinene	0.34
14.792	beta-Pinene	0.89
15.423	Myrcene	0.18
15.847	3-Octanol	0.12
16.485	alpha-Phellandrene	0.03
17.148	alpha-Terpinene	0.21
17.625	para-Cymene	0.14
17.933	Limonene	1.70
18.055	beta-Phellandrene	0.05
18.134	1,8-Cineole	5.43
18.336	cis-beta-Ocimene	0.13
19.019	trans-beta-Ocimene	0.03
19.812	gamma-Terpinene	0.36
20.583	trans-Sabinene hydrate	0.33
21.606	Terpinolene	0.11
22.567	Linalool	0.14
22.655	cis-Sabinene hydrate	0.03
22.798	2-Methylbutyl-2-methylbutyrate	0.05
23.173	2-Methylbutyl isovalerate	0.02
24.260	cis-para-Menth-2-en-1-ol	0.03
25.916	Isopulegol	0.10
26.475	Menthone	20.15
26.948	Menthofuran	2.11
27.058	Isomenthone	3.64
27.414	Neomenthol	3.63
27.555	Unidentified	0.03
27.774	trans-Isopulegone	0.07
28.055	Menthol	44.44
28.178	Terpinen-4-ol	0.76
28.717	Isomenthol	0.47
28.923	Neoisomenthol	0.16
29.140	alpha-Terpineol	0.23
30.511	Unidentified	0.02
31.939	3-cis-Hexenyl isovalerate	0.03
32.057	Pulegone	0.74
32.436	Carvone	0.06
33.109	Piperitone	0.36
34.433	Neomenthyl acetate	0.59
35.622	Menthyl acetate	7.31
35.859	Dihydroedulan I	0.04
36.638	Isomenthyl acetate	0.33
36.830	Unidentified	0.02
41.799	beta-Bourbonene	0.13
42.177	beta-Elementene	0.06
44.083	beta-Caryophyllene	1.87
44.731	beta-Copaene	0.04
46.190	trans-beta-Farnesene	0.19
46.327	alpha-Humulene	0.07
47.548	trans-Cadina-1(6),4-diene	0.03
47.913	Germacrene D	0.97
48.806	Bicyclogermacrene	0.15
49.003	alpha-Murolene	0.03
50.181	delta-Cadinene	0.05
53.931	Caryophyllene oxide	0.04
54.670	Viridiflorol	0.10
		100.00

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

Chromatogram Peppermint Oil, India



Comments:

The analysis of this Peppermint Oil, India batch sample meets the expected chemical profile for authentic essential oil of *Mentha piperita*. No contamination or adulteration was detected.