

# Peppermint Essential Oil

Lot Number: 1626511

Date Filled: 09/21/16

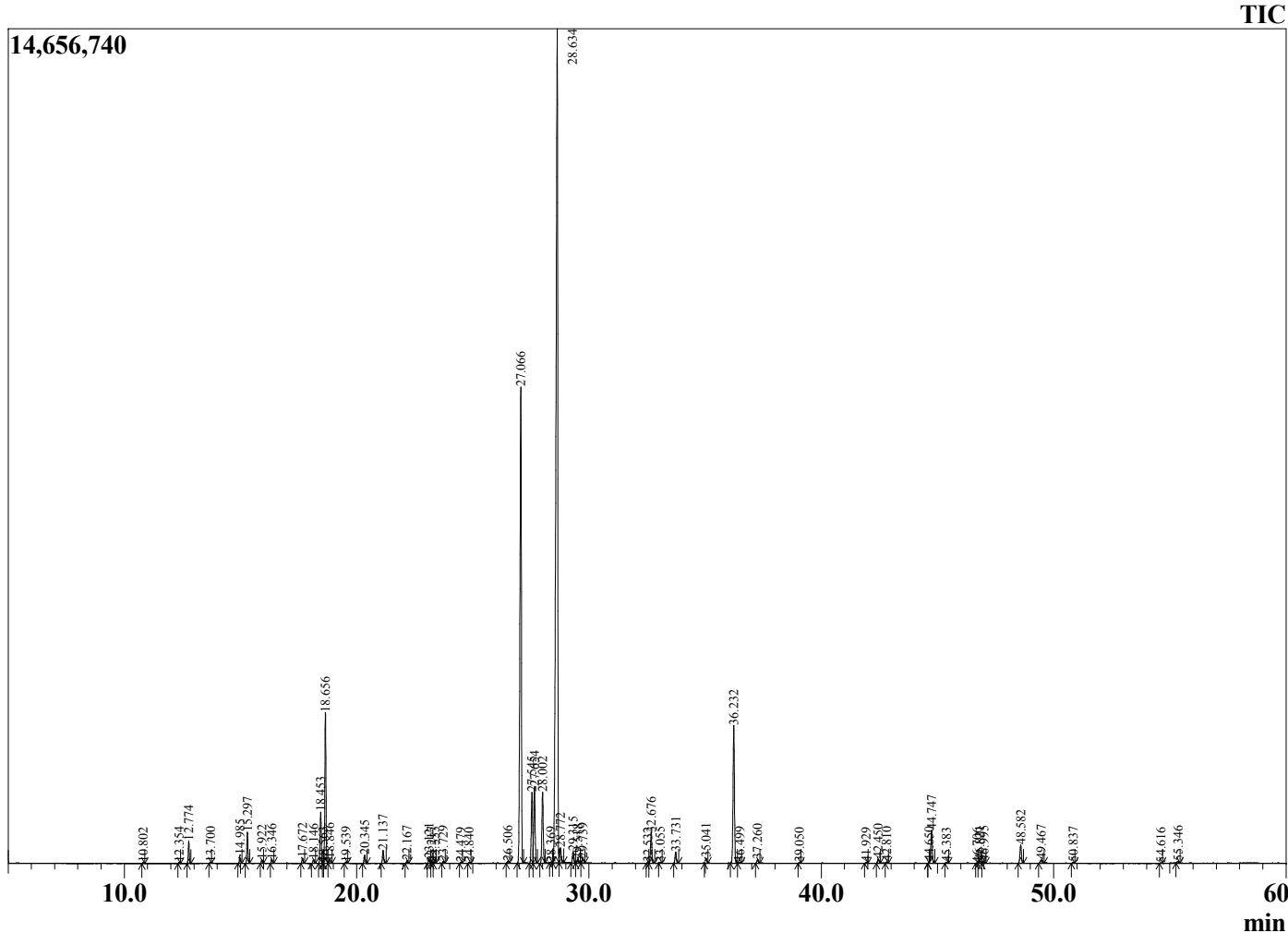
Analyst: TW



Peak Report

Ret. Time	Compound Name	Area %
10.802	2,5-Diethyltetrahydrofuran	0.02
12.354	alpha-Thujene	0.03
12.774	alpha-Pinene	0.70
13.700	Camphene	0.03
14.985	Sabinene	0.29
15.297	beta-Pinene	1.04
15.922	Myrcene	0.11
16.346	3-Octanol	0.14
17.672	alpha-Terpinene	0.18
18.146	para-Cymene	0.14
18.453	Limonene	1.84
18.563	beta-Phellandrene	0.03
18.656	1,8-Cineole	5.34
18.846	cis-beta-Ocimene	0.17
19.539	trans-beta-Ocimene	0.05
20.345	gamma-Terpinene	0.31
21.137	cis-Sabinene hydrate	0.50
22.167	Terpinolene	0.09
23.121	Linalool	0.17
23.217	trans-Sabinene hydrate	0.03
23.353	2-Methylbutyl-2-methyl butyrate	0.04
23.729	Amyl isovalerate	0.06
24.479	3-Octyl acetate	0.02
24.840	cis-para-Menth-2-en-1-ol	0.03
26.506	Isopulegol	0.07
27.066	Menthone	20.82
27.545	Menthofuran	2.90
27.654	Isomenthone	3.07
28.002	Neomenthol	2.91
28.369	trans-Isopulegone	0.03
28.634	Menthol	45.92
28.772	Terpinen-4-ol	0.69
29.315	Isomenthol	0.46
29.518	Neoisomenthol	0.14
29.739	alpha-Terpineol	0.18
32.532	3-Hexenyl isovalerate	0.03
32.676	Pulegone	1.25
33.055	Carvone	0.03
33.731	Piperitone	0.46
35.041	Neomenthyl acetate	0.22
36.232	Menthyl acetate	6.04
36.499	Dihydroedulan I	0.04
37.260	Isomenthyl acetate	0.16
39.050	delta-Elementene	0.02
41.929	alpha-Copaene	0.03
42.450	beta-Bourbonene	0.17
42.810	beta-Elementene	0.05
44.650	beta-Ylangene	0.03
44.747	beta-Caryophyllene	1.53
45.383	beta-Copaene	0.03
46.706	trans-Murrola-3,5-diene	0.02
46.821	trans-beta-Farnesene	0.11
46.995	alpha-Humulene	0.08
48.582	Germacrene D	0.83
49.467	Bicyclogermacrene	0.17
50.837	delta-Cadinene	0.04
54.616	Caryophyllene oxide	0.02
55.346	Viridiflorol	0.08
		100.00

## Chromatogram



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

Approved:

*Dr. Robert S. Pappas*

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