

LABORATORY REPORT

SAMPLE NAME: Spearmint

BOTANICAL NAME: *Mentha spicata*

COMPANY NAME: Soothing Terra

COMPANY LOT #: 1701001417

Column: ZB5 (60 m length × 0.25 mm inner diameter × 0.25 µm film thickness)

Instrument: Shimadzu GCMS-QP2010 Ultra

Carrier gas: Helium 80 psi

Temperature ramp: 2 degrees Celsius per minute up to 260-degree Celsius

Split ratio: 30:1

Sample preparation: 5% w/v solution with Dichloromethane

Interpretation on sample:

This oil meets the standard profile of *Mentha spicata*.

Analyzed by: Dr. Prabodh Satyal

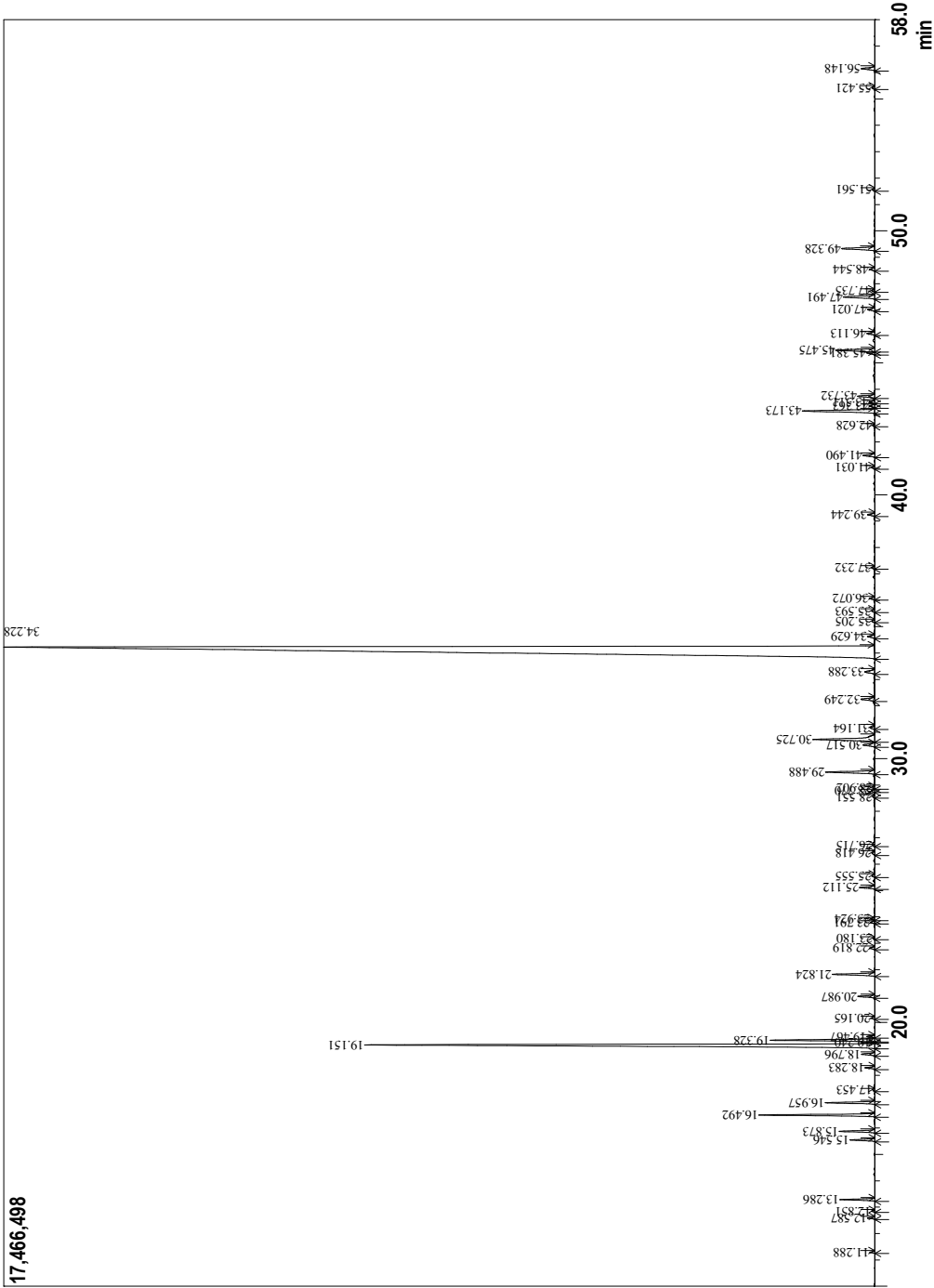
Reviewed by: Ambika Poudel

Issued Date: 4/29/2019

Analyzed by
Analyzed
Sample Type
Sample Name
Lot#
Injection Volume

: Dr. Prabodh Satyal
: 4/27/2019 6:24:18 PM
: Essential Oil
: Spearmint
: 1701001417
: 0.20

Sample Information



Peak Report TIC

R.Time	Name	Area%
11.288	Furan, 2,5-diethyltetrahydro-	0.08
12.587	Pinene isomer	0.12
12.851	Thujene<alpha>->	0.05
13.286	Pinene<alpha>->	0.60
15.546	Sabinene	0.46
15.873	Pinene<beta>->	0.68
16.492	Myrcene	2.19
16.957	Octanol<3>->	0.94
17.453	Pseudolimonene	0.05
18.283	Terpinene<alpha>->	0.19
18.796	Cymene<para>->	0.29
19.151	Limonene	13.36
19.240	Phellandrene <beta>->	0.05
19.328	Cineol<1,8>->	1.98
19.467	Ocimene<Z>-beta>->	0.16
20.165	Ocimene<E>-beta>->	0.07
20.987	Terpinene<gamma>->	0.33
21.824	Sabinene hydrate<cis>->	0.90
22.819	Terpinolene	0.10
23.180	Cymene<para>->	0.03
23.791	Linalool	0.09
23.924	Sabinene hydrate<trans>->	0.06
25.112	Octanol acetate<3>->	0.32
25.555	Menth-2-en-1-ol<cis>-para>->	0.06
26.418	Limonene oxide<trans>->	0.08
26.715	Pinocarveol<trans>->	0.04
28.551	Menth-1,5-dien-8-ol<para>->	0.04
28.770	Terpineol <delta>->	0.07
28.902	Borneol	0.04
29.488	Terpinen-4-ol	1.13
30.517	Terpineol<alpha>->	0.34
30.725	Dihydro carvone<cis>->	1.70
31.164	Dihydro carvone<trans>->	0.11
32.249	Carveol<trans>->	0.33
33.288	Carveol <cis>->	0.30
34.228	Carvone	65.46
34.629	Piperitone	0.17
35.205	Carvone oxide<cis>->	0.06
35.593	Isopiperitenone	0.06
36.072	Carvone oxide<trans>->	0.12
37.232	Dihydroedulan	0.06
39.244	Dihydrocarvyl acetate	0.16
41.031	Eugenol	0.07
41.490	Carvyl acetate <cis>->	0.28
42.628	Copaene<alpha>->	0.03
43.173	Bourbonene <alpha>->	1.81
43.363	Bourbonene <beta>->	0.13
43.511	Elemene <beta>->	0.13
43.732	Jasmone <cis>->	0.40
45.381	Ylangene <beta>->	0.17
45.475	Caryophyllene <trans>->	1.01
46.113	Copaene<beta>->	0.18
47.021	Aromadendrene	0.17
47.491	Farnesene<E>-beta>->	0.77
47.735	Humulene<alpha>->	0.06
48.544	Caryophyllene<9-epi>-trans>->	0.12
49.328	Germacrene D	0.84
51.561	Cadinene <delta>->	0.05
55.421	Caryophyllene oxide	0.05
56.148	Viridifloral	0.34
		100.00

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Reviewed by: Ambika Poudel