Aromatic Plant Research Center
230 N 1200 E STE 100
Lehi, UT 84043
www.aromaticplant.org

APRC®
Aromatic Plant Research Center

Laboratory Test Report

SAMPLE NAME : Grapeseed
CLIENT NAME : Plant Therapy
CLIENT LOT # : GE0122R
APRC LOT# : PT240422A

Column : ZB5 (60 m length × 0.25 mm inner diameter × 0.25 µm film thicknes
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 this sample

The analysis of Grapeseed sample meets the standard chemical profile of Vitis vinifera oil.

Analyzed by : Dr Prabodh Satyal
Reviewed by : Ambika Poudel

Issued Date : 4/23/2024

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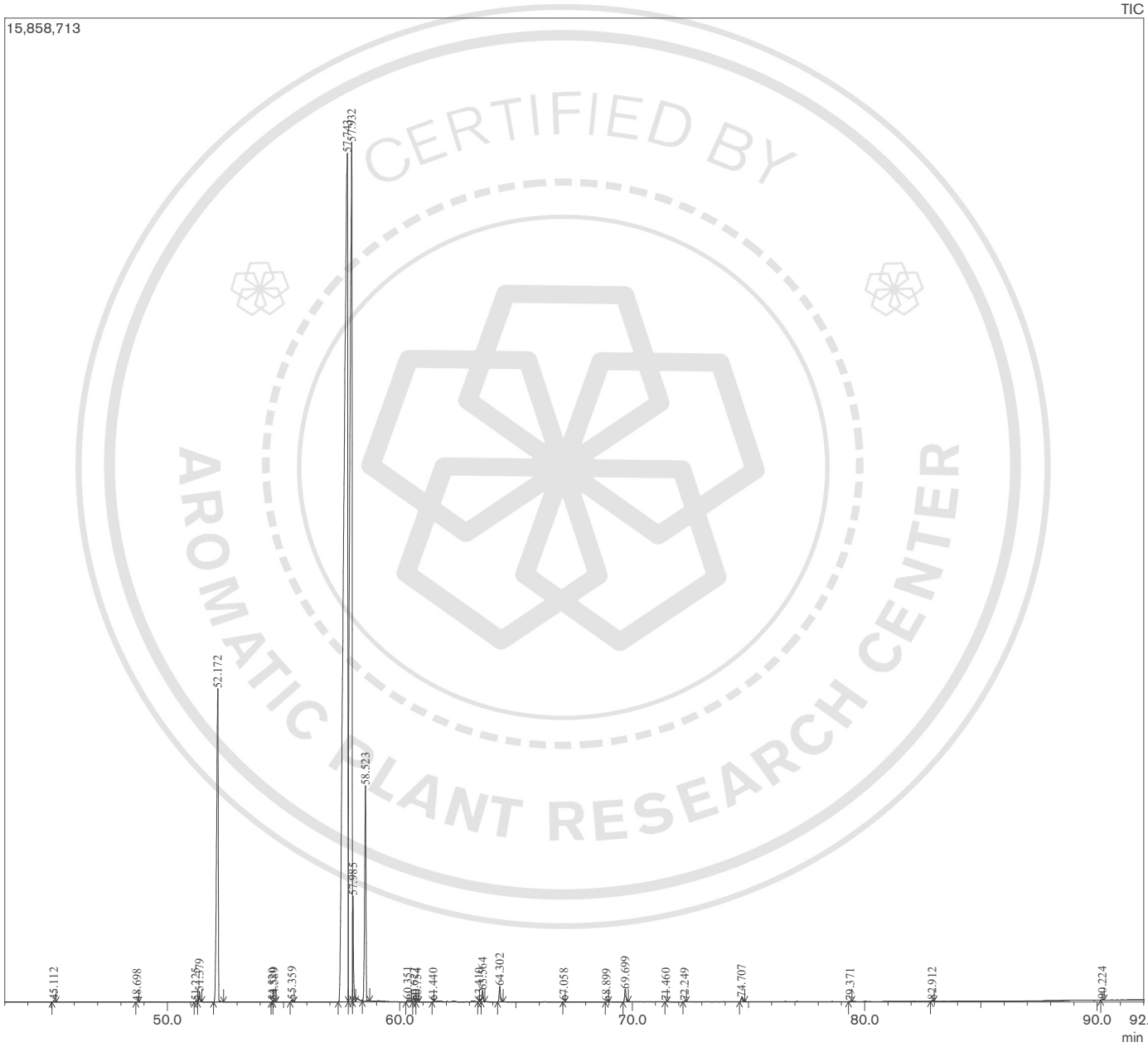
GCMS Analysis

Sample Information

Analyzed by	: Dr. Prabodh Satyal
Analyzed	: 4/23/2024 2:40:30 AM
Sample Type	: Oil
Sample Name	: Grapeseed
Client Name	: Plant Therapy
Client Lot#	: GE0122R
APRC Lot#	: PT240422A
Injection Volume	: 0.30

Chromatogram



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Peak Report

Peak#	R.Time	Name	Area%
1	45.112	Myristic acid	0.03
2	48.698	Pentadecanoic acid	0.00
3	51.225	cis-7-Hexadecenoic acid	0.02
4	51.379	Palmitoleic acid	0.19
5	52.172	Palmitic acid	8.18
6	54.520	9,12-heptadecadienoic acid	0.01
7	54.589	cis-10-Heptadecenoic acid	0.03
8	55.359	Heptadecanoic acid	0.04
9	57.743	Linoleic acid	52.57
10	57.932	cis-Oleic acid	32.12
11	57.985	trans-Oleic acid	1.31
12	58.523	Stearic acid	4.42
13	60.351	Ethyl linoleic acid	0.06
14	60.622	cis-10-Nonadecenoic acid	0.02
15	60.754	trans-10-Nonadecenoic acid	0.01
16	61.440	Nonadecanoic acid	0.01
17	63.410	cis-11,14-Eicosadienoic acid	0.01
18	63.564	cis-11-Eicosenoic acid	0.22
19	64.302	Arachidic acid	0.30
20	67.058	Heneicosanoic acid	0.00
21	68.899	Pentacosane	0.01
22	69.699	Behenic acid	0.27
23	71.460	Hexacosane	0.00
24	72.249	Tricosanoic acid	0.01
25	74.707	Lignoceric acid	0.11
26	79.371	Hexacosanoic acid	0.01
27	82.912	beta-Sitosterol acetate	0.02
28	90.224	Stigmast-4-en-3-one	0.01
			100.00