



**APRC**  
Aromatic Plant Research Center



## LABORATORY REPORT

**SAMPLE NAME:** Chamomile, Roman

**BOTANICAL NAME:** *Chamaemelum nobile*

**COMPANY NAME:** Gaea Royals

**COMPANY LOT #:** 1708000522

**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 *Chamaemelum nobile*.

**Analyzed by:** Dr. Prabodh Satyal

**Reviewed by:** Ambika Poudel

**Issued Date:** 9/28/2018

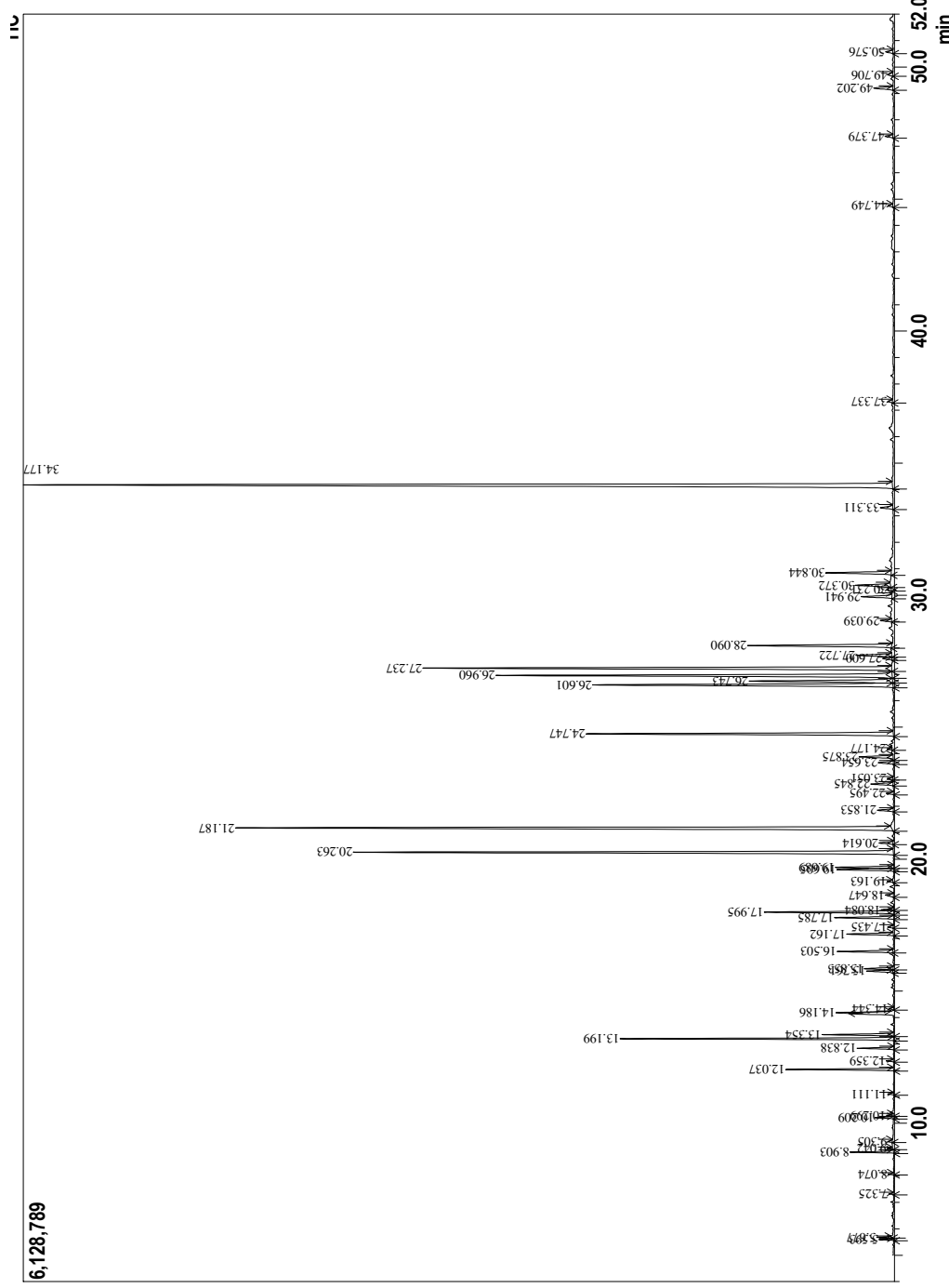
**Sample Information**

Analyzed by : Dr. Prabodh Satyal  
 Analyzed : 9/27/2018 10:34:09 PM  
 Sample Type : Essential Oil  
 Sample Name : Chamomile, Roman  
 Lot# : 1708000522  
 Injection Volume : 0.10



**Peak Report TIC**

R.Time	Name	Area%
5.593	Pentanol	0.14
5.677	Butanol <2-methyl>	0.15
7.325	Hexanal	0.05
8.074	Methyl tiglate	0.06
8.903	Pentanol <3-methyl>	0.54
9.042	Ethyl 2-methylbutyrate	0.07
9.305	Isobutyrate <propyl>	0.07
10.209	Isopentyl acetate	0.23
10.299	2-Methylbutyl acetate	0.11
11.111	Ethyl pent-4-enoate	0.08
12.037	Isobutyl isobutyrate	1.43
12.359	Prenyl acetate	0.10
12.838	Nonane <trimethyl>	0.50
13.199	Pinene <alpha>	3.89
13.354	Methacrylic acid, isobutyl ester	1.00
14.186	Cyclohexanone-3-methyl	0.23
14.344	Tujua-2,4(10)diene	0.07
15.761	Pinene <beta>	0.43
15.853	Chamomile Roman	0.44
16.503	Ethyl tiglate <isomer>	0.86
17.162	Isobutyl 2-methylbutanoate	0.74
17.435	Isobutyl isovalerate	0.09
17.785	Isoamyl isobutyrate	0.94
17.995	2-Methylbutyl isobutyrate	2.03
18.084	Chamomile Roman	0.19
18.647	Cymene<para->	0.18
19.163	1,8-cineole	0.09
19.605	Isopentyl methacrylate	0.94
19.689	Prenyl isomer	0.98
20.263	Isobutyl angelate	9.82
20.614	Prenyl isobutyrate	0.23
21.187	Methyl angelate	12.92
21.853	Propyl hexanoate	0.28
22.495	Camphenilone	0.12
22.845	Butyl angelate	0.38
23.051	Isobutyl tiglate	0.09
23.654	Isopentyl 2-methyl butanoate	0.28
23.875	Methyl butyl-2-methyl butyrate<2->	0.63
24.177	Dimethyl - heptadienone	0.08
24.747	Hexyl isobutyrate	5.62
26.601	Pinocarveol <trans->	5.94
26.743	Hexyl 2-methylacrylate	2.83
26.960	Isoamyl angelate	7.77
27.237	Isoamyl tiglate	9.03
27.600	Terpineol <E-beta>	0.18
27.722	Amyl angelate isomer	0.68
28.090	Pinocavone	2.75
29.039	Pinocamphone<cis->	0.20
29.941	Angelate< 2-methyl-2-butene>	0.57
30.231	Butyl tiglate <2-methyl-1>	0.10
30.372	Myrtanal	0.73
30.844	Butanoate <3-methylpentyl,3-methyl>	1.20
33.311	2-Hydroxy-2-methyl-3-butenyl (2E)-2-methyl-2-butier	0.26
34.177	Methyl pentyl angelate<3->	19.69
37.337	Hexyl cyclobutanecarboxylate	0.09
44.749	Itallicene	0.10
47.379	Farnesene<(E)-beta->	0.16
49.202	Germacrene D	0.42
49.706	Selinene <beta->	0.10
50.576	Farnesene <(E,E)alpha>	0.15
		100.00



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**Reviewed by: Ambika Poudel**