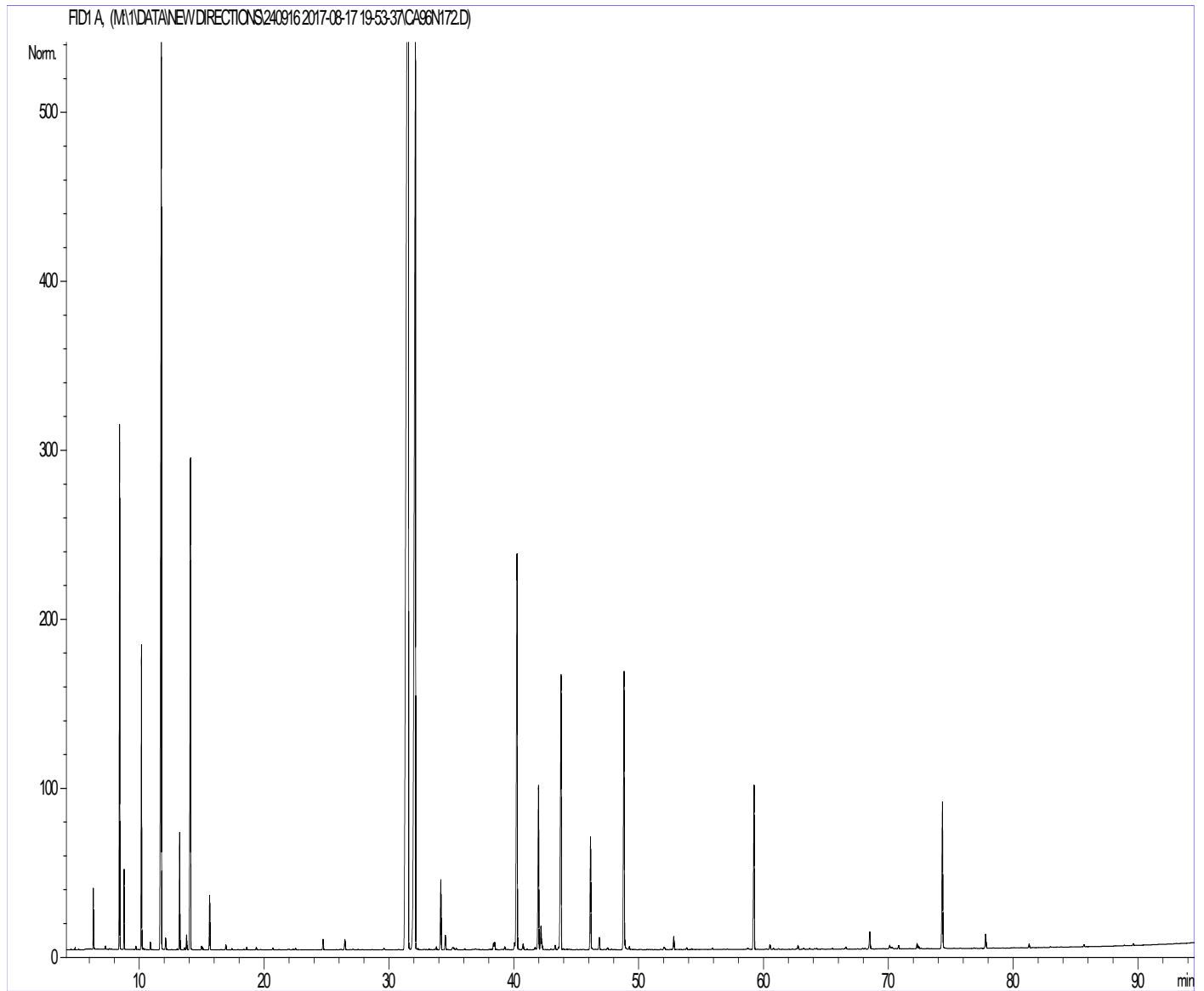




GCMS ANALYSIS

PRODUCT NAME: NEROLI ESSENTIAL OIL (EGYPT) - 11309

DATE: September 28, 2017



*Due to volume turnover, this report is not lot specific. It is representative of the quality of this oil produced by the manufacturer of this product. Specific lots may vary slightly as is the case in natural products.*

**GCMS ANALYSIS (cont'd.)**

PRODUCT NAME: NEROLI ESSENTIAL OIL (EGYPT) - 11309

Peak	RT (min)	Compound name	%
1	4,8	ETHANOL	0,01
2	6,3	<b>α-PINENE</b>	<b>0,29</b>
3	6,4	α-THUYENE	0,02
4	7,3	CAMPHENE	0,02
5	8,4	<b>β-PINENE</b>	<b>3,33</b>
6	8,8	<b>SABINENE</b>	<b>0,47</b>
7	9,7	Δ <sup>3</sup> -CARENE	0,02
8	10,1	<b>β-MYRCENE</b>	<b>2,05</b>
9	10,3	α-PHELLANDRENE	0,01
10	10,4	Ψ-LIMONENE	0,01
11	10,8	α-TERPINENE	0,05
12	11,8	<b>LIMONENE</b>	<b>9,88</b>
13	12,0	β-PHELLANDRENE	0,08
14	12,1	Cis-ARBUSCULONE	0,02
15	13,0	FURAN 2-PENTYL	0,01
16	13,2	Cis-β-OCIMENE	0,88
17	13,6	Trans-ARBUSCULONE	0,02
18	13,8	γ-TERPINENE	0,12
19	14,0	<b>Trans-β-OCIMENE</b>	<b>4,61</b>
20	14,9	p-CYMENE	0,03
21	15,0	HEXYL ACETATE	0,02
22	15,6	TERPINOLENE	0,43
23	16,9	4,8-DIMETHYL-1,3,7-NONATRIENE	0,04
24	17,4	Cis-3-HEXENYL ACETATE	0,01
25	18,6	6-METHYL-5-HEPTEN-2-ONE	0,02
26	19,3	1-HEXANOL	0,03
27	20,6	ALLO-OCIMENE	0,02
28	22,5	GALBANOLENE	0,02
29	24,7	LINALOOL cis-OXIDE	0,10
30	26,4	LINALOOL Trans-OXIDE	0,07

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**GCMS ANALYSIS (cont'd.)**
**PRODUCT NAME: NEROLI ESSENTIAL OIL (EGYPT) - 11309**

Peak	RT (min)	Compound name	%
31	26,5	$\delta$ -ELEMENE	0,05
32	29,6	BENZALDEHYDE	0,02
33	31,5	<b>LINALOOL</b>	<b>39,30</b>
34	32,1	<b>LINALYL ACETATE</b>	<b>16,42</b>
35	32,3	Trans-p-MENTH-2-EN-1-OL	0,02
36	33,2	BORNYL ACETATE	0,01
37	33,8	$\beta$ -ELEMENE	0,03
38	34,1	$\beta$ -CARYOPHYLLENE	0,73
39	34,5	TERPINENE-4-OL	0,14
40	35,1	HOTRIENOL	0,02
41	35,3	LINALYL PROPIONATE	0,06
42	36,0	Cis-p-2,8-MENTHADIEN-1-OL	0,01
43	36,9	TERPENIC KETONE	0,02
44	38,3	$\alpha$ -HUMULENE	0,07
45	38,4	E- $\beta$ -FARNESENE	0,08
46	39,3	NERAL	0,03
47	40,0	$\alpha$ -TERPINEOL	<b>4,93</b>
48	40,2	TERPENYL ACETATE	0,08
49	40,7	GERMACRENE D	0,07
50	41,7	SESQUITERPENE	0,03
51	41,9	<b>NERYL ACETATE</b>	<b>1,84</b>
52	42,1	BICYCLOGERMACRENE	0,27
53	42,2	GERANIAL	0,05
54	43,3	$\alpha$ -FARNESENE	0,05
55	43,5	$\delta$ -CADINENE	0,03
56	43,8	<b>GERANYL ACETATE</b>	<b>3,48</b>
57	43,9	PYRANIC LINALOOL Cis-OXIDE	0,01
58	46,1	<b>NEROL</b>	<b>1,20</b>
59	46,8	2-PHENYLETHYL ACETATE	0,13
60	47,4	3,5,7-OCTATRIENE-2-OL, 2,6-DIMETHYL	0,01
61	47,5	GERMACRENE B	0,02

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**GCMS ANALYSIS (cont'd.)**
**PRODUCT NAME: NEROLI ESSENTIAL OIL (EGYPT) - 11309**

Peak	RT (min)	Compound name	%
62	48,8	<b>GERANIOL</b>	<b>3,27</b>
63	49,2	DIMETHYL UNDECADIENONE ISOMER	0,04
64	52,0	PHENYLETHYL ALCOHOL	0,04
65	52,8	ACETONITRIL PHENYL	0,15
66	53,8	Trans-JASMONE	0,03
67	54,2	3,7-OCTADIENE-2,6-DIOL, 2,6-DIMETHYL	0,01
68	55,9	CARYOPHYLLENE EPOXIDE	0,02
69	58,7	ALIPHATIC ALCOHOL	0,03
70	59,2	<b>Trans-NEROLIDOL</b>	<b>1,82</b>
71	60,5	METHYL-N-METHYL ANTHRANILATE	0,06
72	60,8	GLOBULOL	0,01
73	62,7	ALIPHATIC ESTER	0,05
74	63,2	ALIPHATIC ESTER	0,02
75	65,5	SESQUITERPENOL	0,02
76	66,6	VINYL QUAJACOL	0,03
77	68,5	<b>METHYL ANTHRANILATE</b>	<b>0,21</b>
78	68,6	$\alpha$ -CADINOL	0,02
79	70,1	FARNESYL ACETATE	0,07
80	70,2	ALIPHATIC ALCOHOL	0,03
81	70,8	SESQUITERPENIC EPOXIDE	0,05
82	72,3	FARNESOL ISOMER	0,03
83	72,4	TRICOSANE	0,06
84	74,3	<b>Trans,trans-FARNESOL</b>	<b>1,70</b>
85	77,7	<b>INDOLE</b>	<b>0,18</b>
86	81,3	PENTACOSANE	0,04
87	85,6	PHYTOL	0,02
88	89,6	HEPTACOSANE	0,02
89	97,1	AROMATIC COMPOUND	0,06
		<b>TOTAL</b>	<b>99,99</b>

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