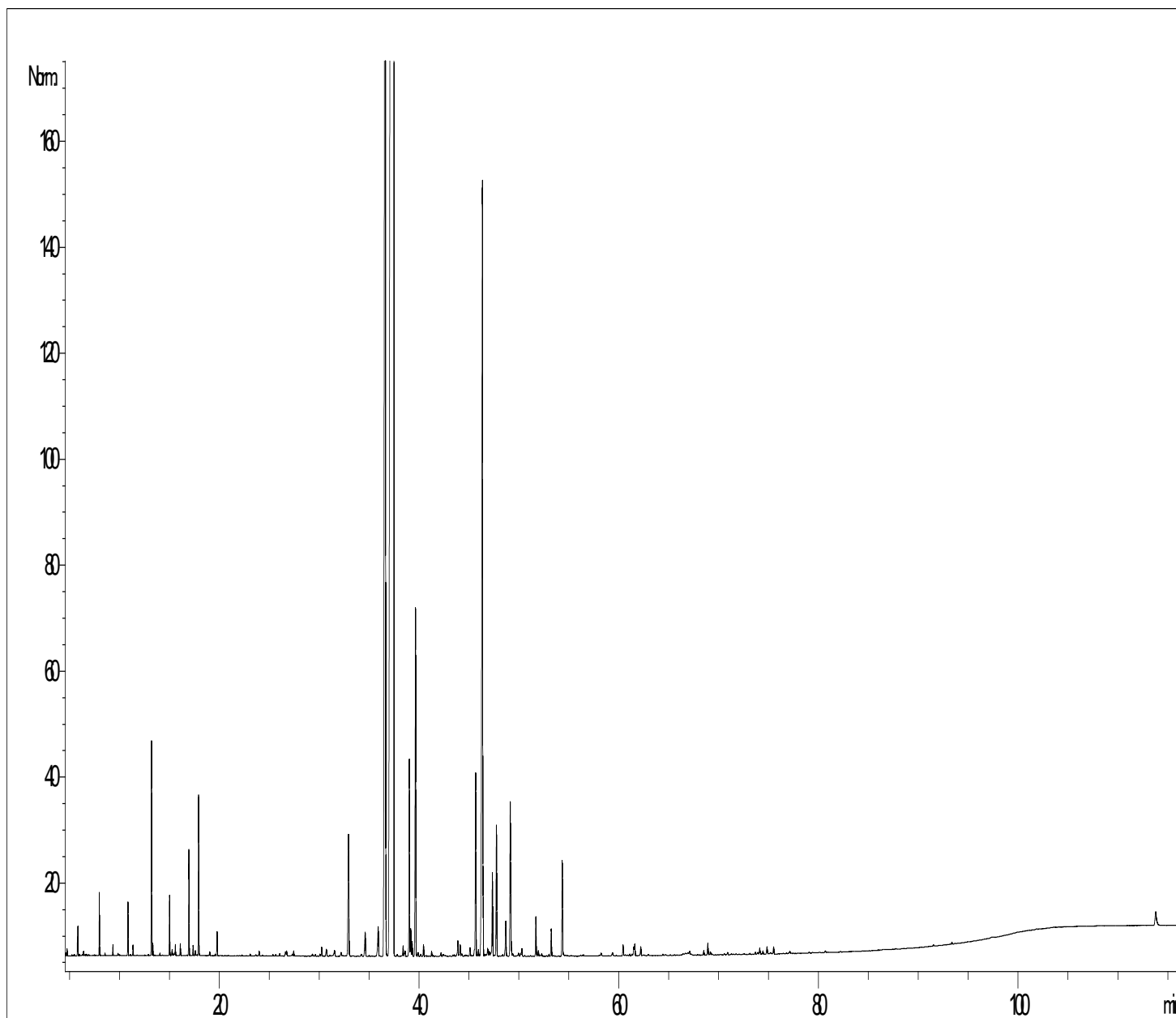


GCMS ANALYSIS

PRODUCT NAME: CLARY SAGE (FRANCE) ESSENTIAL OIL - 11319

DATE: January 17, 2020



*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: CLARY SAGE (FRANCE) ESSENTIAL OIL - 11319

Peak	RT (min)	Compound name	%
1	5,7	BUTANAL-2-METHYL	0,03
2	5,8	ISOVALERALDEHYDE	0,05
3	5,9	ETHANOL	0,01
4	6,4	FURAN-2-ETHYL	0,01
5	7,9	$\alpha$ -PINENE	0,14
6	9,3	CAMPHENE	0,03
7	10,8	$\beta$ -PINENE	0,14
8	11,3	SABINENE	0,03
9	13,2	$\beta$ -MYRCENE	0,61
10	13,3	$\alpha$ -PHELLANDRENE	0,04
11	14,0	$\alpha$ -TERPINENE	0,01
12	15,0	LIMONENE	0,19
13	15,2	$\beta$ -PHELLANDRENE	0,01
14	15,5	ISOAMYL ALCOHOL	0,02
15	15,5	Cis-ARBUSCULON	0,04
16	16,0	2-HEXENAL	0,04
17	16,9	Cis- $\beta$ -OCIMENE	0,34
18	17,3	Trans-ARBUSCULON	0,03
19	17,5	$\gamma$ -TERPINENE	0,02
20	17,9	Trans- $\beta$ -OCIMENE	0,52
21	19,0	p-CYMENE	0,01
22	19,5	ISOTERPINOLENE	0,01
23	19,8	TERPINOLENE	0,08
24	23,9	1-PENTANOL-4-METHYL	0,02
25	26,6	FENCHONE	0,02
26	26,7	NONANAL	0,02
27	27,4	2-HEXEN-1-OL	0,02
28	30,0	MENTHATRIENE ISOMER	0,01
29	30,2	1-OCTEN-3-OL + cis-LINALOOL OXIDE	0,03
30	30,7	$\alpha$ -CUBEBENE	0,04
31	31,4	trans-LINALOOL OXIDE	0,01
32	31,5	NERYL EPOXIDE	0,03

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### GCMS ANALYSIS (cont'd.)

PRODUCT NAME: CLARY SAGE (FRANCE) ESSENTIAL OIL - 11319

Peak	RT (min)	Compound name	%
33	32,2	BICYCLOELEMENE	0,02
34	32,9	$\alpha$ -COPAENE	0,69
35	34,2	$\alpha$ -BOURBONENE	0,02
36	34,6	$\beta$ -BOURBONENE	0,13
37	35,9	$\beta$ 1-CUBEBENE	0,18
38	36,6	<b>LINALOOL</b>	<b>11,93</b>
39	37,4	<b>LINALYL ACETATE</b>	<b>72,69</b>
40	38,4	$\epsilon$ -CADINENE	0,05
41	38,6	BORNYL ACETATE	0,03
42	39,0	EPOXYLINALYL ACETATE	0,76
43	39,1	$\beta$ -ELEMENE	0,11
44	39,3	$\beta$ -CUBEBENE	0,06
45	39,6	$\beta$ -CARYOPHYLLENE	1,51
46	39,7	TERPINENE-4-OL	0,03
47	39,9	AROMADENDRENE	0,02
48	40,4	ALIPHATIC ESTER	0,04
49	41,3	Cis-p-2,8-MENTHADIEN-1-OL	0,02
50	42,2	SESQUITERPENE	0,02
51	43,8	$\alpha$ -HUMULENE	0,06
52	44,1	NERYL FORMIATE	0,04
53	45,1	$\gamma$ -MUUROLENE	0,04
54	45,6	<b><math>\alpha</math>-TERPINEOL</b>	<b>0,76</b>
55	45,9	BORNEOL	0,03
56	46,3	<b>GERMACRENE D</b>	<b>4,68</b>
57	46,6	SESQUITERPENE	0,01
58	46,7	$\beta$ -SELINENE	0,01
59	46,8	SESQUITERPENE	0,04
60	47,0	$\alpha$ -SELINENE	0,02
61	47,1	$\alpha$ -MUUROLENE	0,01
62	47,3	NERYL ACETATE	0,36
63	47,8	BICYCLOGERMACRENE	0,58
64	48,6	$\alpha$ -FARNESENE	0,16

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GCMS ANALYSIS (cont'd.)

PRODUCT NAME: CLARY SAGE (FRANCE) ESSENTIAL OIL - 11319

Peak	RT (min)	Compound name	%
65	49,1	GERANYL ACETATE	0,78
66	49,3	SESQUITERPENE	0,01
67	49,9	AGAROFURAN, $\alpha$ -DIHYDRO	0,02
68	50,3	METHYL SALICYLATE	0,01
69	51,7	NEROL	0,17
70	51,9	Cis-EPOXYLINALYL ACETATE	0,03
71	52,2	Trans- EPOXYLINALYL ACETATE	0,01
72	53,2	ANETHOL	0,12
73	54,4	GERANIOL	0,41
74	58,2	ALIPHATIC ESTER	0,02
75	59,3	ALIPHATIC ESTER	0,02
76	60,4	HEXENYLIC ESTER	0,05
77	61,5	ISOCARYOPHYLLENE OXIDE	0,04
78	61,6	CARYOPHYLLENE OXIDE	0,06
79	62,2	SESQUITERPENIC EPOXIDE	0,04
80	67,0	SESQUITERPENIC EPOXIDE	0,04
81	68,5	SESQUITERPENOL	0,02
82	68,9	SPATHULENOL	0,06
83	69,1	SESQUITERPENOL	0,02
84	70,9	SESQUITERPENIC EPOXIDE	0,01
85	73,6	SESQUITERPENOL	0,01
86	73,9	$\alpha$ -EUDESMOL	0,01
87	74,1	$\beta$ -EUDESMOL	0,03
88	74,4	$\alpha$ -CADINOL	0,02
89	74,8	SCLAREOL OXIDE	0,04
90	75,5	SESQUITERPENIC EPOXIDE	0,04
91	77,1	GERANYL- $p$ -CYMENE	0,01
92	93,3	MANOOL	0,01
93	113,7	<b>SCLAREOL</b>	<b>0,13</b>
		<b>TOTAL</b>	<b>99,96</b>

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