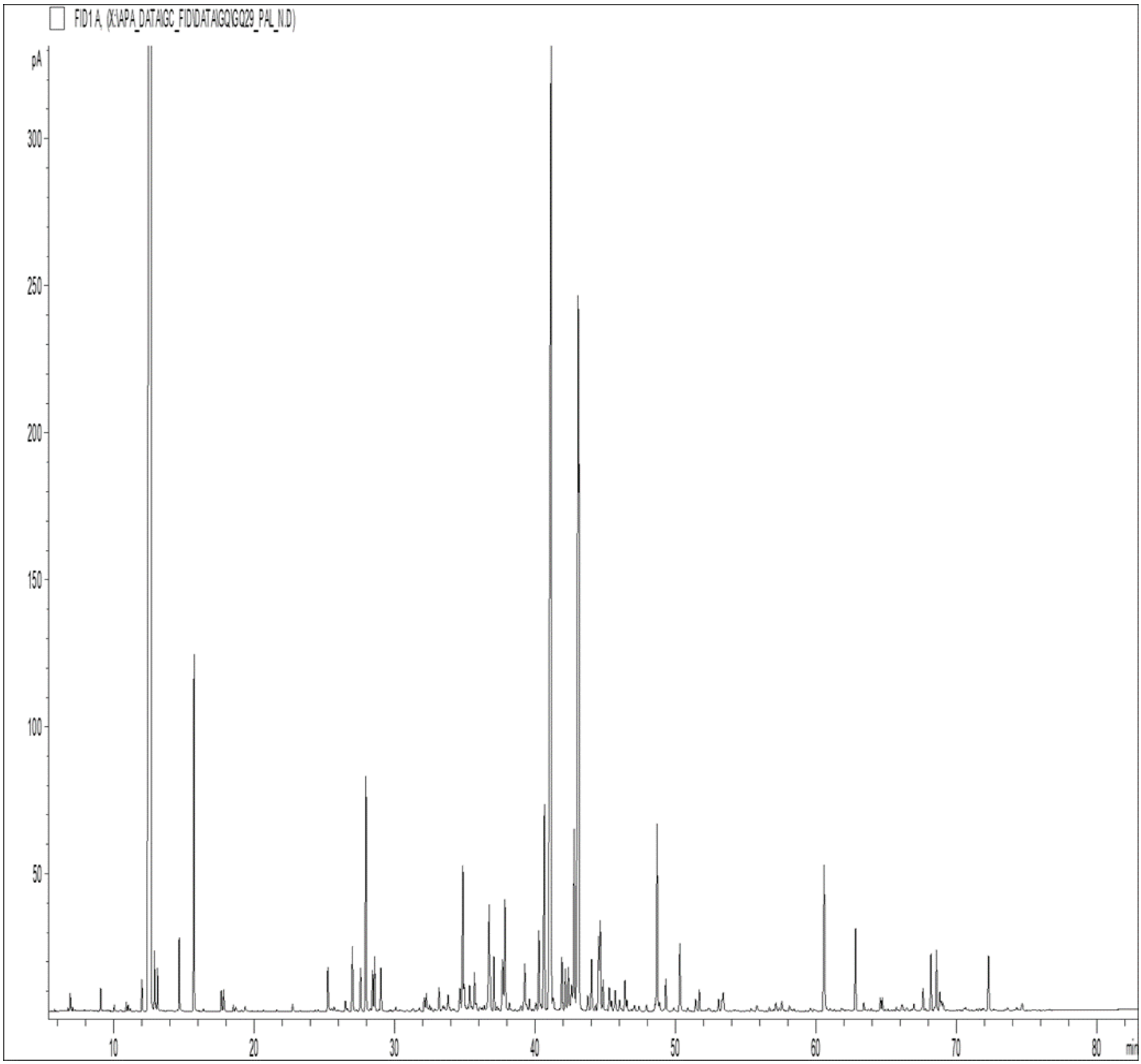
NEW DIRECTIONS AROMATICS

NATURAL INGREDIENTS ETHICALLY SOURCED

GCMS ANALYSIS

PRODUCT NAME: PALO SANTO ESSENTIAL OIL -VERIFIED BY ECOCERT/COSMOS APPROVED – 11264
DATE: March 8,2022



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,

NEW DIRECTIONS AROMATICS

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GCMS ANALYSIS *(cont'd,)*

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Peak	RT (min)	Compound name	%
1	6,89	alpha-PINENE	0,08
2	9,05	MENTHENE ISOMER	0,11
3	10,03	p-MENTH-2-ENE	0,03
4	10,89	beta-MYRCENE	0,05
5	11,02	alpha-PHELLANDRENE	0,04
6	11,99	2,3-DEHYDRO-1,8-CINEOLE	0,20
7	12,67	**LIMONENE**	**44,09**
8	12,90	1,8-CINEOLE	0,28
9	12,97	CYCLOPENTANONE-3-METHYL	0,05
10	13,11	1,3,8-p-MENTHATRIENE	0,22
11	14,65	MENTHATRIENE ISOMER	0,41
12	15,71	p-CYMENE	1,99
13	17,66	ETHANONE CYCLOHEXYL ISOMER	0,14
14	17,83	ETHANONE CYCLOHEXYL ISOMER	0,15
15	18,51	PINOL	0,04
16	18,68	CYCLOHEXANONE,3-METHYL	0,04
17	19,35	5-HEPTEN-2-ONE, 6-METHYL-	0,04
18	22,73	COSMENE ISOMER	0,06
19	25,24	alpha,p-DIMETHYLSTYRENE	0,35
20	25,54	LINALOOL cis-OXIDE	0,03
21	25,70	SESQUITERPENE	0,04
22	26,50	LIMONENE trans-1,2-EPOXIDE	0,08
23	26,99	alpha-CUBEBENE	0,08
24	27,00	MENTHONE	0,36
25	27,58	delta-ELEMENE	0,35
26	27,96	MENTHOFURAN	1,63
27	28,43	YLANGENE	0,31
28	28,58	ISOMENTHONE	0,39
29	29,02	alpha-COPAENE	0,34
30	30,08	SESQUITERPENE	0,03

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GCMS ANALYSIS *(cont'd,)*

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Peak	RT (min)	Compound name	%
31	31,32	SESQUITERPENE	0,04
32	31,78	SESQUITERPENE	0,05
33	32,11	LINALOOL	0,12
34	32,26	4-ACETYLI-1-METHYLCYCLOHEXENE	0,16
35	32,48	COMPOUND Mw=150	0,05
36	32,62	LIMONENE cis-8,9-EPOXIDE	0,04
37	33,16	COMPOUND Mw=206	0,21
38	33,45	alpha-CEDRENE	0,07
39	33,57	SESQUITERPENE	0,04
40	33,81	epsilon-CADINENE	0,19
41	34,23	ISOPULEGONE	0,03
42	34,65	METHYL THYMOL ETHER	0,21
43	34,86	beta-ELEMENE	1,13
44	34,96	alpha-trans-BERGAMOTENE	0,23
45	24,99	SESQUITERPENE	0,23
46	35,21	SESQUITERPENE	0,04
47	35,34	TERPINENE-4-OL	0,25
48	35,50	SESQUITERPENE	0,04
49	35,69	Cis-DIHYDROCARVONE	0,31
50	35,80	SESQUITERPENE	0,08
51	36,06	ALIPHATIC ESTER	0,06
52	36,23	trans-DIHYDROCARVONE	0,04
53	36,40	THUYOPSENE	0,05
54	36,73	Cis-p-2,8-MENTHADIEN-1-OL	0,40
55	36,79	SESQUITERPENE	0,87
56	37,08	Cis-beta-TERPINEOL	0,40
57	37,31	SESQUITERPENE	0,05
58	37,42	SESQUITERPENE	0,03
59	37,69	MENTHOL + COMPOUND Mw=170	0,53
60	37,86	PULEGONE	0,92

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GCMS ANALYSIS *(cont'd,)*

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Peak	RT (min)	Compound name	%
61	38,18	AROMATIC COMPOUND	0,08
62	39,01	SESQUITERPENE	0,07
63	39,27	Trans-p-2,8-MENTHADIEN-1-OL	0,50
64	39,60	SESQUITERPENE	0,11
65	40,06	SESQUITERPENE	0,10
66	40,28	LAVANDULAL	0,60
67	40,42	SESQUITERPENE	0,07
68	40,67	gamma-MUUROLENE	1,90
69	41,15	**alpha-TERPINEOL**	**12,21**
70	41,28	SESQUITERPENE	0,21
71	41,91	GERMACRENE D	0,45
72	42,17	SESQUITERPENE	0,33
73	42,38	SESQUITERPENE	0,39
74	42,60	beta-SELINENE	0,31
75	41,05	SESQUITERPENE	0,15
76	42,80	alpha-DIHYDRO-AGAROFURAN	1,47
77	43,08	**beta-BISABOLENE**	**7,43**
78	43,15	CARVONE	2,42
79	43,76	Cis-ISOPIPERITENOL	0,14
80	44,03	Trans-ISOPIPERITENOL	0,48
81	44,32	SESQUITERPENE	0,05
82	44,54	delta-CADINENE	0,58
83	44,64	gamma-CADINENE	0,76
84	44,85	p-METHYLACETOPHENONE	0,27
85	45,29	MENTHADIENOL ISOMER	0,23
86	45,45	alpha-CURCUMENE	0,08
87	45,72	PERILLALDEHYDE	0,21
88	46,02	SESQUITERPENE	0,11
89	46,16	SESQUITERPENE	0,03
90	46,41	trans-p-MENTHA-1,8-DIEN-2-OL	0,25

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GCMS ANALYSIS *(cont'd,)*

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Peak	RT (min)	Compound name	%
91	46,55	SESQUITERPENE	0,09
92	46,86	AROMATIC COMPOUND	0,03
93	47,09	AROMATIC COMPOUND Mw=160	0,08
94	47,95	CUPARENE	0,06
95	48,56	SESQUITERPENIC EPOXIDE	0,04
96	48,69	trans-CARVEOL	1,50
97	48,87	trans-CALAMENENE	0,09
98	49,31	p-CYMENE-8-OL	0,24
99	49,89	exo-2-HYDROXYCINEOLE	0,05
100	50,32	Cis-CARVEOL	0,54
101	50,89	COMPOUND Mw=220	0,03
102	51,45	cis-p-MENTHA-1,8-DIEN-2-OL	0,10
103	51,70	alpha-AGAROFURANE	0,16
104	53,08	PHENOLIC COMPOUND	0,09
105	53,31	alpha-CALACORENE	0,07
106	53,41	COMPOUND Mw=220	0,20
107	55,40	beta-CALACORENE	0,03
108	55,81	ALIPHATIC ESTER	0,07
109	56,69	SESQUITERPENOL	0,03
110	57,16	LIMONENE-10-OL	0,08
111	57,38	AROMATIC COMPOUND	0,03
112	57,59	AROMATIC COMPOUND	0,10
113	58,12	AROMATIC COMPOUND	0,07
114	60,60	JUNEOL	1,33
115	61,02	SESQUITERPENOL	0,03
116	61,84	SESQUITERPENOL	0,03
117	62,84	10-epi-gamma-EUDESMOL	0,65
118	63,42	AROMATIC COMPOUND	0,07
119	64,60	PYRANIC COMPOUND	0,10
120	64,74	BISABOLOL OXIDE B	0,10

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GCMS ANALYSIS *(cont'd,)*

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Peak	RT (min)	Compound name	%
121	65,75	AROMATIC COMPOUND	0,03
122	66,16	SESQUITERPENOL	0,09
123	66,50	PHENOLIC COMPOUND	0,05
124	66,99	AROMATIC COMPOUND	0,07
125	67,64	alpha-MUUROLOL	0,20
126	68,21	VALERIANOL	0,45
127	68,46	CADALENE	0,03
128	68,60	alpha-BISABOLOL	0,44
129	68,84	4-HYDROXY-DIHYDRO-alpha-AGAROFURAN	0,16
130	68,94	SESQUITERPENOL	0,08
131	69,07	alpha-CADINOL	0,07
132	70,67	AROMATIC COMPOUND Mw=164	0,03
133	71,94	SESQUITERPENOL	0,03
134	72,31	MINT LACTONE Mw=166	0,48
135	73,66	AROMATIC COMPOUND	0,03
136	74,31	AROMATIC COMPOUND	0,03
137	74,70	MINT LACTONE ISOMER	0,09
		TOTAL	**99,09**

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