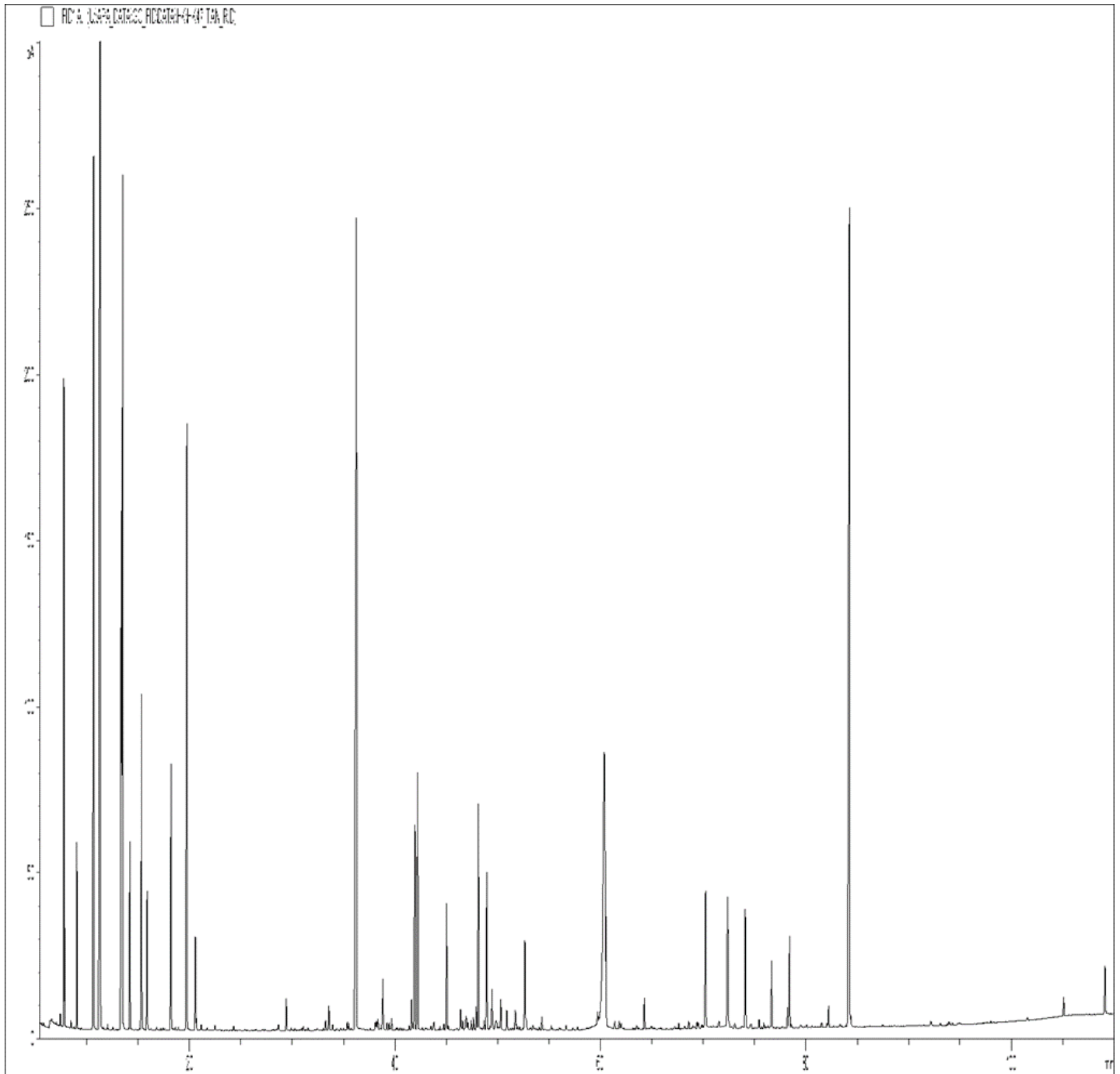


GCMS ANALYSIS

PRODUCT NAME: TANSY BLUE ESSENTIAL OIL - VERIFIED BY ECOCERT/COSMOS APPROVED – 11142

DATE: May 02, 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,

GCMS ANALYSIS (cont'd,)

PRODUCT NAME: TANSY BLUE ESSENTIAL OIL - VERIFIED BY ECOCERT/COSMOS APPROVED – 11142

Peak	RT (min)	Compound name	%
1	7.41	TRICYCLENE	0.05
2	7.76	alpha-PINENE	2.73
3	7.83	alpha-THUYENE	0.42
4	8.44	ETHYL 2-METHYLBUTYRATE	0.04
5	9.03	CAMPHENE	0.92
6	10.66	beta-PINENE	6.02
7	11.33	SABINENE	18.27
8	12.03	PROPYL 2-METHYLBUTYRATE	0.03
9	12.55	delta3-CARENE	0.02
10	13.38	beta-MYRCENE	4.96
11	13.50	alpha-PHELLANDRENE	5.80
12	14.21	alpha-TERPINENE	1.07
13	15.34	LIMONENE	2.17
14	15.87	1,8-CINEOLE	0.94
15	12,27	beta-PHELLANDRENE	1,82
16	16.81	ETHYL DIMETHYLACRYLATE	0.02
17	17.20	FURAN, 2-PENTYL-	0.02
18	17.43	BUTYL 2-METHYLBUTYRATE	0.02
19	18.21	gamma-TERPINENE	1.83
20	18.64	trans-beta-OCIMENE	0.03
21	18.93	TERPENE ISOMER	0.04
22	19.75	p-CYMENE	4.94
23	20.57	TERPINOLENE	0.60
24	20.67	ISOAMYL 2-METHYLBUTYRATE	0.07
25	21.14	OCTANAL	0.04
26	22.47	1,3,7-NONATRIENE, 4,8-DIMETHYL-	0.03
27	24.30	5-HEPTEN-2-ONE, 6-METHYL-	0.03
28	28.68	ALIPHATIC ESTER	0.06
29	29.43	PINENOL ISOMER	0.21
30	29.90	PERILLENE	0.02

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GCMS ANALYSIS (cont'd,)

PRODUCT NAME: TANSY BLUE ESSENTIAL OIL - VERIFIED BY ECOCERT/COSMOS APPROVED – 11142

Peak	RT (min)	Compound name	%
31	30.26	AROMATIC COMPOUND Mw=134	0.02
32	31.09	alpha,p-DIMETHYLSTYRENE	0.02
33	31.55	COMPOUND Mw=152	0.02
34	33.03	6-VINYLDIHYDRO-2-PYRANE-3-ONE, 2,2,6-TRIMETHYL-	0.03
35	33.25	trans-THUYANOL	0.08
36	33.58	COMPOUND Mw=152	0.18
37	33.95	cis-3-HEXENYL ISOVALERATE	0.05
38	35.36	alpha-COPAENE	0.07
39	35.52	COMPOUND Mw=152	0.04
40	36.25	CAMPHOR	9.41
41	38.08	cis-p-MENTH-3-EN-7-AL	0.06
42	38.20	trans-p-MENTH-3-EN-7-AL	0.07
43	38.33	beta1-CUBEBENE	0.09
44	38.80	4-ACETYLCYCLOHEX-1-ENE, 1-METHYL-	0.40
45	39.21	LINALOOL	0.05
46	39.43	1-OCTANOL	0.05
47	39.66	trans-p-MENTH-2-EN-1-OL	0.10
48	40.13	BORNYL FORMATE	0.03
49	40.26	alpha-cis-BERGAMOTENE	0.03
50	40.48	epsilon-CADINENE	0.03
51	40.68	BORNYL ACETATE	0.03
52	41.37	alpha-trans-BERGAMOTENE	0.03
53	41.61	beta-ELEMENE	0.23
54	41.93	beta-CARYOPHYLLENE	1.75
55	42.20	TERPINENE-4-OL	1.93
56	42.64	AROMADENDRENE	0.02
57	42.94	METHYL BENZOATE	0.03
58	43.49	MYRTENAL	0.03
59	43.75	SABINAKETONE	0.04
60	43.79	cis-p-MENTH-2-EN-1-OL	0.06

GCMS ANALYSIS (cont'd,)

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Peak	RT (min)	Compound name	%
61	44.36	PULEGONE	0.03
62	44.76	ALLO-AROMADENDRENE	0.05
63	45.02	FARNESENE ISOMER	0.97
64	45.16	trans-PINOCARVEOL	0.04
65	46.38	alpha-HUMULENE	0.17
66	46.58	CARVOTANACETONE	0.08
67	46.91	4,5-di-epi-ARISTOLOCHENE	0.16
68	47.09	Z-beta-FARNESENE	0.07
69	47.41	gamma-MUUROLENE	0.08
70	47.63	gamma-CURCUMENE	0.10
71	47.91	alpha-TERPINEOL	0.18
72	48.11	BORNEOL	1.88
73	48.67	EREMOPHILENE	0.08
74	48.94	GERMACRENE D	1.34
75	49.25	PIPERITONE	0.03
76	49.44	beta-SELINENE	0.38
77	49.76	alpha-SELINENE	0.05
78	49.85	alpha-MUUROLENE	0.11
79	49.99	CARVONE	0.02
80	50.10	beta-BISABOLENE	0.03
81	50.30	BICYCLOGERMACRENE	0.24
82	50.88	beta-CURCUMENE	0.15
83	51.70	delta-CADINENE	0.15
84	51.80	gamma-CADINENE	0.04
85	51.96	SESQUITERPENE	0.03
86	52.15	SESQUITERPENE	0.03
87	52.63	beta-SESQUIPHELLANDRENE	0.69
88	52.69	alpha-CURCUMENE	0.13
89	53.42	MYRTENOL	0.06
90	54.29	trans-SABINOL	0.11

GCMS ANALYSIS (cont'd.)

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Peak	RT (min)	Compound name	%
91	55.21	beta-DAMASCENONE	0.04
92	56.65	trans-CARVEOL	0.04
93	57.30	p-CYMENE-8-OL	0.03
94	57.78	PHENYLMETHYL ISOVALERATE	0.02
95	59.71	DIHYDROCHAMAZULENE ISOMER	0.08
96	60.38	5,6-DIHYDROCHAMAZULENE	7.53
97	60.53	DIHYDROCHAMAZULENE ISOMER	0.72
98	61.39	DIHYDROCHAMAZULENE ISOMER	0.09
99	61.82	DIHYDROCHAMAZULENE ISOMER	0.07
100	62.01	DIHYDROCHAMAZULENE ISOMER	0.05
101	63.18	AROMATIC COMPOUND	0.02
102	63.50	PHENYLETHYLIC ESTER	0.05
103	63.69	AROMATIC COMPOUND	0.02
104	64.27	CARYOPHYLLENE OXIDE	0.25
105	64.94	SESQUITERPENIC OXIDE	0.04
106	67.23	SESQUITERPENIC OXIDE	0.03
107	67.61	COMPOUND Mw=162	0.05
108	68.19	JUNEOL	0.03
109	68.58	AROMATIC COMPOUND	0.07
110	68.99	AROMATIC COMPOUND	0.03
111	69.15	AROMATIC COMPOUND	0.02
112	69.39	ELEMOL	0.06
113	69.51	METHYL p-ANISATE	0.05
114	69.86	BERGAMOTOL ISOMER	0.03
115	70.23	DIHYDROCHAMAZULENE ISOMER	1.22
116	71.54	SPATHULENOL	0.07
117	72.40	DIHYDROCHAMAZULENE ISOMER	1.92
118	72.52	PENTADECANONE, TRIMETHYL-	0.06
119	72.78	EUGENOL	0.02
120	73.07	beta-BISABOLOL	0.05

GCMS ANALYSIS (cont'd.)

PRODUCT NAME: TANSY BLUE ESSENTIAL OIL - VERIFIED BY ECOCERT/COSMOS APPROVED – 11142

Peak	RT (min)	Compound name	%
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121	73.72	gamma-EUDESOL	0.04
122	73.95	AGAROSPIROL	0.11
123	74.09	THYMOL	0.81
124	74.67	SESQUITERPENOL	0.07
125	75.43	CARVACROL	0.07
126	75.90	GERANYLGERANIADIENE	0.05
127	76.51	alpha-EUDESOL	0.02
128	76.66	beta-EUDESOL	0.57
129	78.21	AROMATIC COMPOUND Mw=286	0.16
130	78.40	AROMATIC COMPOUND Mw=286	0.72
131	78.57	AROMATIC COMPOUND	0.04
132	79.48	NAPHTALENIC COMPOUND	0.05
133	79.66	SESQUITERPENOL	0.02
134	79.87	SESQUITERPENOL	0.02
135	80.09	SESQUITERPENOL	0.04
136	80.60	SESQUITERPENOL	0.03
137	81.52	BERGAMOTOL ISOMER	0.04
138	82.06	GERANYL-p-CYMENE ISOMER	0.03
139	82.20	GERANYL-p-CYMENE ISOMER	0.17
140	83.34	AROMATIC COMPOUND	0.03
141	84.22	CHAMAZULEN	9.41
142	84.35	6-DODECENYL-gamma-LACTONE Mw=196	0.10
143	87.45	AROMATIC COMPOUND Mw=322	0.03
144	92.16	AROMATIC COMPOUND	0.05
145	93.08	AROMATIC COMPOUND Mw=322	0.02
146	93.93	AROMATIC COMPOUND Mw=322	0.04
147	98.00	AROMATIC COMPOUND Mw=322	0.02
148	105.08	AROMATIC COMPOUND Mw=322	0.16
149	109.11	AROMATIC COMPOUND Mw=322	0.48
		TOTAL	99.89

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