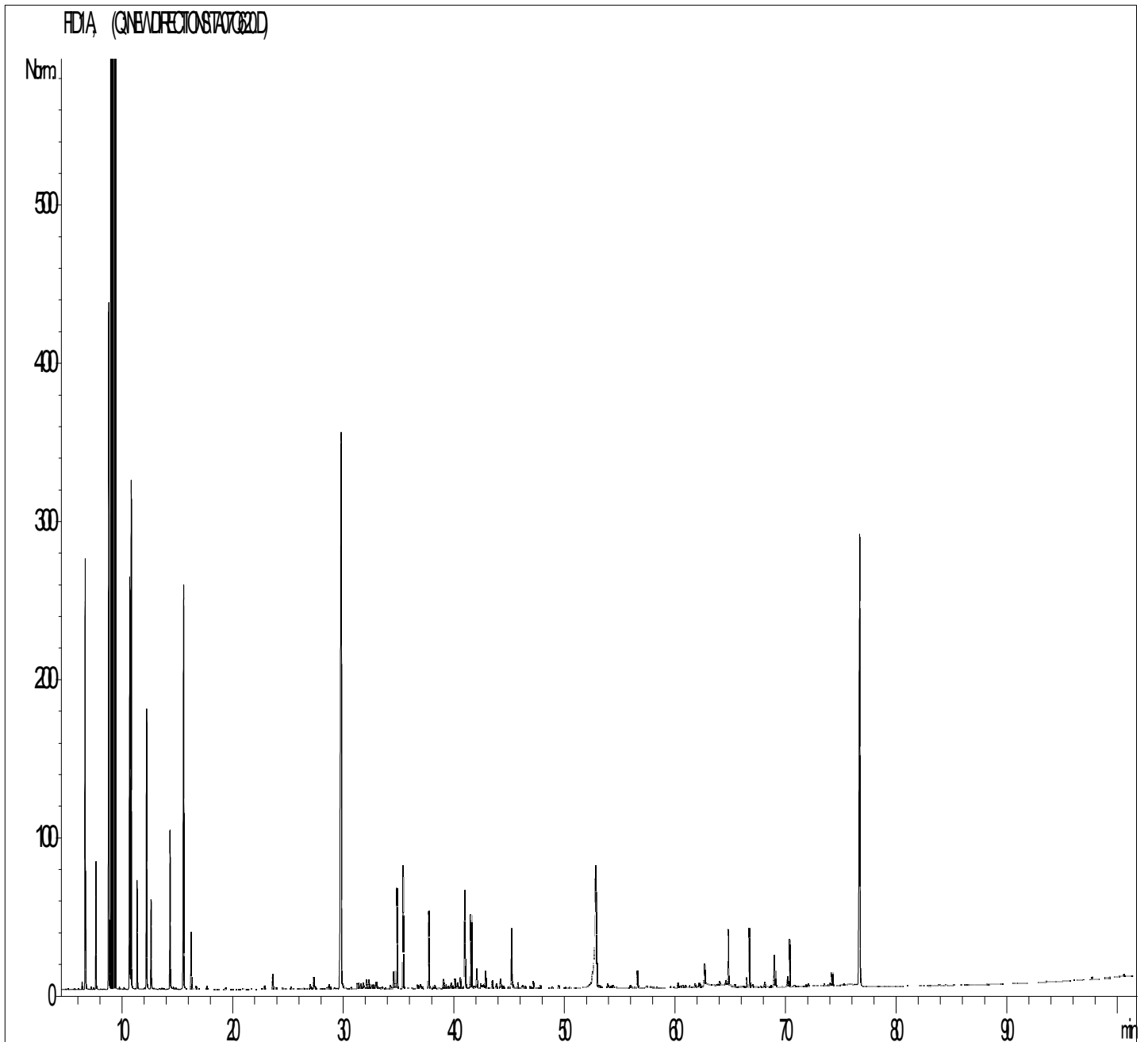


## GCMS ANALYSIS

Product Name: Tansy Blue Essential Oil (Morocco)  
Date: April 27, 2018



Product Name: Tansy Blue Essential Oil (Morocco) Cont'd  
Date: April 27, 2018

Peak	RT (min)	Compound name	%
1	6,3	TRICYCLEN	0,06
2	6,6	<b>alpha-PINENE</b>	<b>3,30</b>
3	6,7	alpha-THUYENE	0,40
4	7,2	ETHYL 2-METHYLBUTYRATE	0,02
5	7,4	alpha-FENCHENE	0,01
6	7,6	CAMPHENE	1,11
7	8,8	<b>beta-PINENE</b>	<b>7,37</b>
8	9,2	<b>SABINENE</b>	<b>16,17</b>
9	9,5	PINADIENE	0,02
10	9,7	ALIPHATIC ESTER	0,02
11	10,2	delta3-CARENE	0,02
12	10,7	<b>beta-MYRCENE</b>	<b>4,74</b>
13	10,8	<b>alpha-PHELLANDRENE</b>	<b>5,18</b>
14	11,3	alpha-TERPINENE	1,07
15	12,0	ISOBUTYRATE D'AMYLE	0,01
16	12,2	<b>LIMONENE</b>	<b>3,07</b>
17	12,6	1,8-CINEOLE + beta-PHELLANDRENE	0,99
18	12,8	MENTHATRIENE ISOMER	0,02
19	13,3	ETHYL DIMETHYLACRYLATE	0,02
20	13,5	FURAN-2-PENTYL	0,01
21	13,6	ISOBUTYL 2-METHYLBUTYRATE	0,01
22	13,8	Cis-beta-OCIMENE	0,01
23	14,3	gamma-TERPINENE	1,83
24	14,4	MENTHATRIENE ISOMER	0,03
25	14,6	Trans-beta-OCIMENE	0,02
26	14,8	TERPINENE ISOMER	0,02
27	15,5	p-CYMENE	5,30
28	16,2	TERPINOLENE	0,71
29	16,7	OCTANAL	0,04
30	17,6	1,3,7-NONATRIENE-4,8-DIMETHYL	0,03

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Product Name: Tansy Blue Essential Oil (Morocco) Cont'd  
Date: April 27, 2018

Peak	RT (min)	Compound name	%
31	19,3	5-HEPTEN-2-ONE-6-METHYL	0,03
32	20,8	ALIPHATIC ESTER	0,02
33	21,6	ALIPHATIC ESTER	0,01
34	22,6	COMPOSÉ Mw=152	0,03
35	22,8	ALIPHATIC ESTER	0,04
36	23,6	ALIPHATIC ESTER	0,21
37	23,9	PERILLENE	0,03
38	24,4	DIMETHYLSTYRENE ISOMER	0,02
39	24,7	ALIPHATIC ESTER	0,01
40	25,3	alpha,p-DIMETHYLSTYRENE	0,04
41	25,5	LINALOOL Cis-OXIDE	0,01
42	26,3	COMPOUND Mw=152	0,03
43	26,6	alpha-CUBEBENE	0,03
44	27,0	Trans-THUYANOL	0,06
45	27,1	LINALOOL Trans-OXIDE	0,02
46	27,3	ALIPHATIC ESTER	0,18
47	27,4	HEXENYLIC ESTER	0,03
48	28,4	alpha-CAMPHOLENAL	0,03
49	28,7	alpha-COPAENE	0,07
50	28,8	ALIPHATIC ESTER	0,03
51	29,2	ALIPHATIC ESTER	0,03
52	29,8	<b>CAMPHOR</b>	<b>11,84</b>
53	30,7	alpha-GURJUNENE	0,02
54	31,3	Cis-p-MENTH-3-EN-7-AL	0,08
55	31,5	SESQUITERPENE	0,08
56	31,7	Trans-p-MENTH-3-EN-7-AL	0,09
57	32,1	1-METHYL-4-ACETYLCYCLOHEX-1-ENE	0,13
58	32,3	LINALOOL	0,16
59	32,6	COMPOUND Mw=152	0,05
60	32,7	1-OCTANOL	0,05

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Product Name: Tansy Blue Essential Oil (Morocco) Cont'd  
Date: April 27, 2018

Peak	RT (min)	Compound name	%
61	32,9	Trans-p-MENTH-2-EN-1-OL	0,11
62	33,2	alpha-cis-BERGAMOTENE	0,03
63	33,4	epsilon-CADINENE	0,03
64	33,7	BORNYL ACETATE	0,02
65	34,3	alpha-trans-BERGAMOTENE	0,05
66	34,5	beta-ELEMENE	0,26
67	34,8	beta-CARYOPHYLLENE	1,69
68	35,3	TERPINENE-4-OL	1,80
69	35,5	SESQUITERPENE	0,02
70	36,2	SESQUITERPENE	0,03
71	36,6	MYRTENAL	0,06
72	36,9	Cis-p-MENTH-2-EN-1-OL	0,07
73	370	SABINACETONE	0,03
74	37,1	ALIPHATIC ESTER	0,03
75	37,7	FARNESENE ISOMER	1,21
76	38,2	Trans-PINOCARVEOL	0,06
77	39,0	alpha-HUMULENE	0,16
78	39,2	E-beta-FARNESENE	0,07
79	39,5	CARVOTANACETONE	0,05
80	39,8	SESQUITERPENE	0,12
81	40,0	Z-beta-FARNESENE	0,21
82	40,3	gamma-MUUROLENE	0,12
83	40,5	gamma-CURCUMENE	0,17
84	40,8	alpha-TERPINEOL	0,03
85	40,9	BORNEOL	1,84
86	41,5	GERMACRENE D	1,17
87	41,6	ALIPHATIC ESTER	0,03
88	41,8	SESQUITERPENE	0,03
89	42,0	beta-SELINENE	0,31
90	42,4	COMPOUND Mw=152	0,09

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Product Name: Tansy Blue Essential Oil (Morocco) Cont'd  
Date: April 27, 2018

Peak	RT (min)	Compound name	%
91	42,5	alpha-SELINENE	0,04
92	42,6	SESQUITERPENE	0,03
93	42,7	alpha-MUUROLENE	0,07
94	42,8	BICYCLOGERMACRENE	0,26
95	43,4	beta-CURCUMENE	0,12
96	43,7	Trans-ISOPIPERITENOL	0,07
97	44,2	delta-CADINENE	0,17
98	44,3	gamma-CADINENE	0,05
99	44,5	SESQUITERPENE	0,04
100	44,9	METHYLACETOPHENONE	0,02
101	45,1	beta-SESQUIPHELLANDRENE	0,91
102	45,2	alpha-CURCUMENE	0,13
103	45,7	MENTHADIENAL ISOMER	0,10
104	46,2	MYRTENOL	0,05
105	46,4	SESQUITERPENOL	0,04
106	46,8	COMPOUND Mw=152	0,03
107	47,1	SABINOL ISOMER	0,11
108	47,8	beta-DAMASCENONE	0,06
109	48,8	Trans-CARVEOL	0,05
110	49,5	p-CYMENE-8-OL	0,04
111	52,4	DIHYDROCHAMAZULENE ISOMER	0,23
112	52,8	<b>5,6-DIHYDROCHAMAZULENE</b>	<b>5,67</b>
113	52,9	DIHYDROCHAMAZULENE ISOMER	0,38
114	53,2	DIHYDROCHAMAZULENE ISOMER	0,04
115	53,8	DIHYDROCHAMAZULENE ISOMER	0,08
116	54,1	DIHYDROCHAMAZULENE ISOMER	0,03
117	54,3	DIHYDROCHAMAZULENE ISOMER	0,05
118	55,9	DITERPENE Mw=272	0,04
119	56,0	AROMATIC COMPOUND	0,01
120	56,4	DIHYDROCHAMAZULENE ISOMER	0,02

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Product Name: Tansy Blue Essential Oil (Morocco) Cont'd  
Date: April 27, 2018

Peak	RT (min)	Compound name	%
121	56,6	CARYOPHYLLENE OXIDE	0,28
122	57,4	SESQUITERPENOL	0,03
123	57,8	SESQUITERPENIC EPOXIDE	0,02
124	58,0	AROMATIC COMPOUND	0,02
125	59,5	AROMATIC COMPOUND	0,03
126	60,3	SESQUITERPENOL	0,08
127	60,4	SESQUITERPENOL	0,04
128	60,6	SESQUITERPENIC EPOXIDE	0,04
129	60,9	SESQUITERPENIC EPOXIDE	0,05
130	61,3	AROMATIC COMPOUND	0,04
131	61,8	SESQUITERPENOL	0,07
132	62,2	METHYL ANISATE	0,06
133	62,6	DIHYDROCHAMAZULENE ISOMER	1,08
134	63,9	COMPOUND Mw=186	0,06
135	64,5	SPATHULENOL	0,07
136	64,8	DIHYDROCHAMAZULENE ISOMER	1,91
137	65,4	SESQUITERPENIC EPOXIDE	0,09
138	66,4	HINESOL	0,18
139	66,7	THYMOL	0,93
140	67,0	SESQUITERPENOL	0,08
141	68,0	CARVACROL	0,09
142	68,7	alpha-EUDESOL	0,03
143	68,9	beta-EUDESOL	0,52
144	69,0	alpha-CADINOL	0,05
145	70,2	AROMATIC COMPOUND Mw=286 ISOMER	0,19
146	70,4	AROMATIC COMPOUND Mw=286 ISOMER	0,76
148	71,8	SESQUITERPENIC EPOXIDE	0,03
149	72,0	SESQUITERPENIC EPOXIDE	0,04
150	73,5	AROMATIC COMPOUND	0,04

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Product Name: Tansy Blue Essential Oil (Morocco) Cont'd  
Date: April 27, 2018

Peak	RT (min)	Compound name	%
151	74,0	SESQUITERPENOL	0,04
152	74,2	GERANYL-p-CYMENE ISOMER	0,20
153	76,7	<b>CHAMAZULENE</b>	<b>8,71</b>
154	77,2	6-DODECENYL- $\gamma$ -LACTONE Mw=196	0,03
155	97,6	COMPOUND Mw=186	0,04
156	100,6	COMPOUND Mw=186	0,03
		<b>TOTAL</b>	<b>99,87</b>

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