

Date: May 5, 2020.

CERTIFICATE OF ANALYSIS - GC PROFILING

Sample identification: Blue Tansy 14296 Lot 200476503

Type: Essential oil

Source: Tanacetum annuum L.

ANALYSIS

Method: 10152018_10:1split.m - Analysis of the composition of an essential oil, or other volatile liquid, by GC-FID, identifications validated by GC-MS.

Analysis date: May 4, 2020.

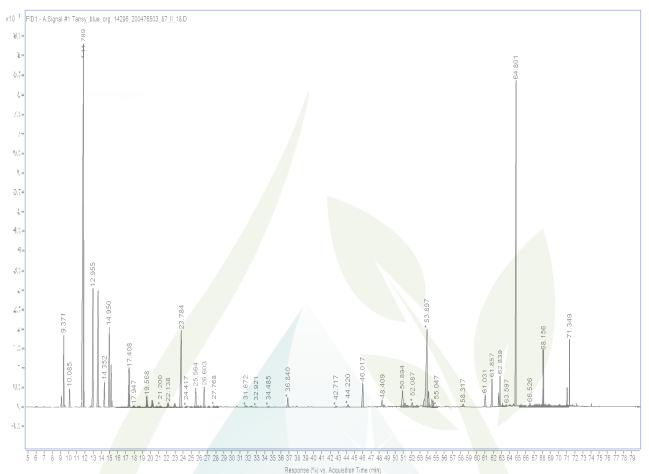
Physical aspect: Blue liquid

CONCLUSION

No adulterant, contaminant or diluent has been detected in this oil using this method.

Peak	Compound	RT	Area Sum %
1	Tricyclene	8.737	0.04
2	α-Thujene	9.083	0.47
3	α-Pinene	9.371	2.72
4	Camphene	10.085	0.75
5	Thuja-2,4(10)-diene	10.438	0.01
6	Sabinene	11.789	28.3
7	β-Pinene	11.833	2.37
8	6-Methyl-5-heptene-2-one	12.718	0.02
9	β-Myrcene	12.955	5.62
10	α-Phellandrene	13.58	5.61
11	Octanal	13.684	0.07
12	δ3-carene	13.879	0.02
13	α-Terpinene	14.352	1.13
14	o-Cymene	14.95	3.94
15	Limonene	15.184	2.08
16	1,8-Cineole	15.278	0.24
17	γ-Terpinene	17.408	1.86
18	cis-Sabinene hydrate	17.947	0.08
19	α-Ter <mark>pinole</mark> ne	19.568	0.57
20	Epoxymyrcene<6,7->	20.232	0.38
21	Linalool	20.769	0.07
22	unknown	21.2	0.09
23	trans <mark>-p-2,8</mark> -Menthadien-1-ol	22.138	0.24
24	α-Campholenal	22.501	0.03
25	4-Acetyl-1-methylcyclohexene	22.938	0.23
26	Camphor	23.784	5.35
27	unknown	24.417	0.06
28	Sabina ketone	25.005	0.04
29	Borneol	25.564	1.12
30	α-Phellandrene-8-ol	25.857	0.08
31	cis-Dihydro carvone	26.179	0.08
32	Terpinen-4-ol	26.603	1.15
33	unknown	27.174	0.07
34	α-Terpineol	27.768	0.09
35	Myrtenal	28.095	0.02
36	Myrtenol	28.222	0.02
37	Cuminal	31.672	0.16
38	Carvotanacetone	32.376	0.07
39	Piperitone	32.921	0.03
40	unknown	34.485	0.05
41	Thymol	36.84	0.55
42	α-Copaene	42.717	0.1
43	β-Elemene	44.22	0.21

44 β-Caryophyllene 46.017 45 trans-α-Bergamotene 47.803 46 α-Cedrene 48.409 47 α-Humulene 48.636 48 Germacrene D 50.894 49 β-Selinene 51.192 50 Valencene 51.457 51 Germacrene B 52.087 52 α-Muurolene 52.643 53 3,6-Dihydrochamazulene 53.897 54 2,5,8-Trimethyl-1-naphthol 54.092 55 δ-Cadinene 54.482	0.05 0.49 0.15 1.17 0.21 0.09 0.3 0.06 7.85
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o cadificite	0.87
	0.53
β-Sesquiphellandrene 54.632	0.37
57 Dihydrochamazulene isomer 55.047	0.1
58 Caryophyllene oxide 58.317	0.2
59 Dihydrochamazulene isomer 61.031	0.84
60 Dihydrochamazulene isomer 61.857	1.59
61 β-Eudesmol 62.666	0.58
62 Dihydrochamazulene isomer 62.839	1.11
63 unknown 63.127	0.1
64 unknown 63.29	0.05
65 unknown 63.597	0.06
66 Chamazulene 64.801	13.14
67 unknown 66.526	0.05
68 unknown 68.09	0.18
69 unknown 68.156	0.91
70 unknown 68.405	0.04
71 unknown 68.75	0.04
72 unknown 68.905	0.02
73 unknown 68.995	0.02
74 unknown 71.036	
75 unknown 71.349	0.2
Total identified	0.2 0.73 97.33 %



nespense (10) vs. Addustion Time (min)

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