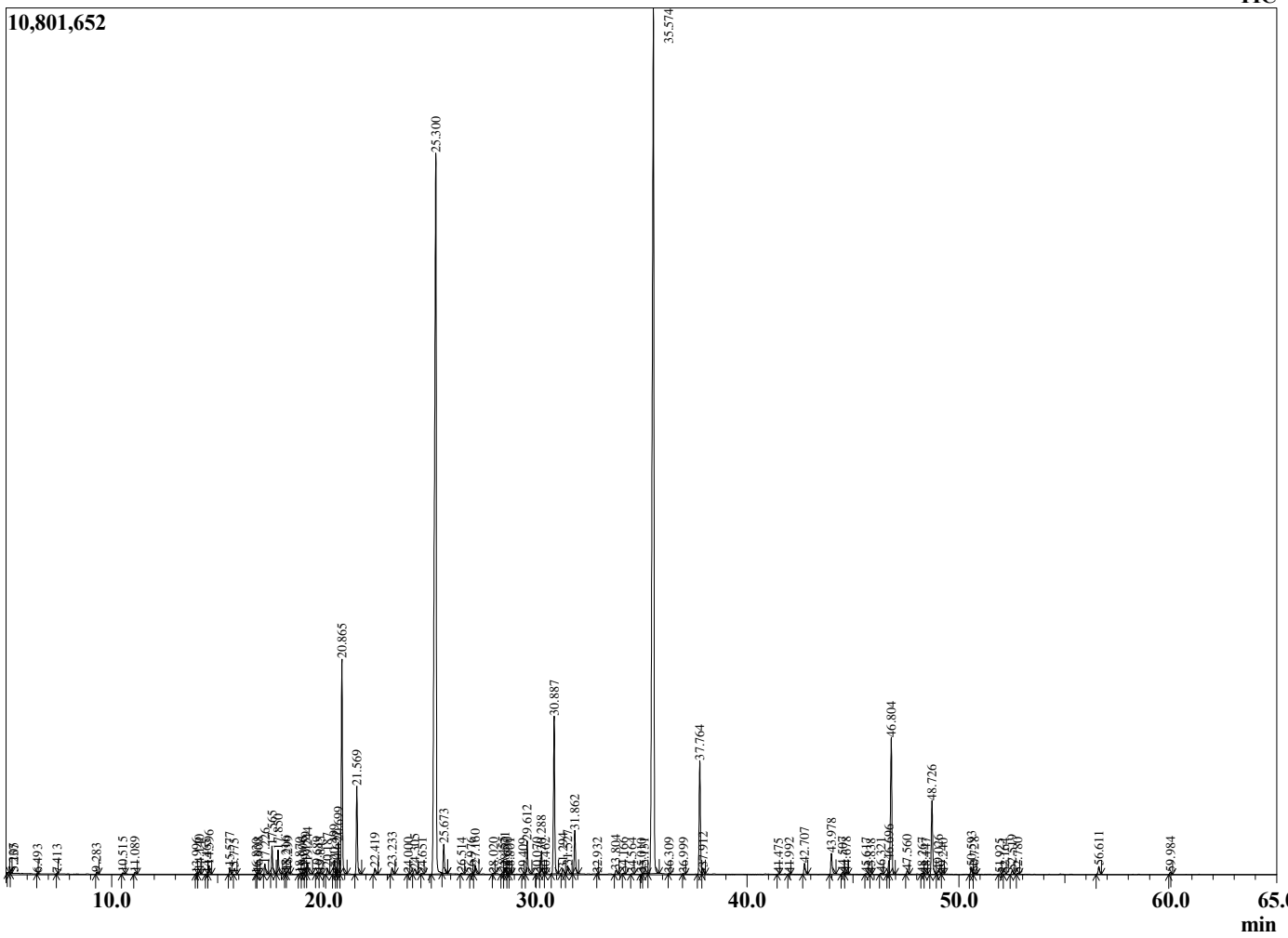
Sample Information

Analyzed by : Dr. Robert S. Pappas
Analyzed : 6/28/2021 11:04:02 AM
Sample Type : Essential Oil
Sample Name : Lavender, Bulgarian Super - Barefut
Sample ID : 0114
Injection Volume : 0.10
Instrument ID: : GC-2

Chromatogram Lavender, Bulgarian Super - Barefut



Comments:

The analysis of this Lavender, Bulgaria batch sample meets the expected chemical profile for authentic essential oil of *Lavandula angustifolia.* No contamination or adulteration was detected. The results provided in this GCMS quality analysis reflect the chemical composition of the oil and lot referenced above on the date of analysis.

Peak Report TIC

R.Time	Name	Area%
5.105	3-Methylbutanal	0.01
5.237	2-Methylbutanal	0.00
6.493	1-Pentanol	0.00
7.413	Toluene	0.01
9.283	1-Methoxyhexane	0.04
10.515	Hex-(3Z)-enol	0.04
11.089	Hexanol	0.05
13.996	Tricyclene	0.02
14.140	alpha-Thujene	0.09
14.465	2,7-Dimethyl oxepine	0.01
14.596	alpha-Pinene	0.20
15.577	Camphene	0.17
15.775	Thuja-2,4(10)-diene	0.01
16.830	Unidentified	0.00
16.908	Sabinene	0.04
17.226	1-Octen-3-ol	0.30
17.565	3-Octanone	0.74
17.850	Myrcene	0.63
18.216	Butyl butyrate	0.04
18.299	3-Octanol	0.10
18.870	Unidentified	0.01
19.006	alpha-Phellandrene	0.03
19.159	delta-3-Carene	0.16
19.244	Hexyl acetate	0.34
19.689	alpha-Terpinene	0.05
19.845	meta-Cymene	0.04
20.187	para-Cymene	0.16
20.499	Limonene	0.37
20.622	beta-Phellandrene	0.15
20.699	1,8-Cineole	0.84
20.865	(Z)-beta-Ocimene	5.40
21.569	(E)-beta-Ocimene	2.24
22.419	gamma-Terpinene	0.17
23.233	cis-Linalool oxide (furanoid)	0.19
24.000	Isoerpinolene	0.01
24.305	Terpinolene + trans-Linalool oxide (furanoid)	0.20
24.651	Rosefuran	0.02
25.300	Linalool	30.36
25.673	1-Octen-3-yl acetate	0.79
26.514	3-Octyl acetate	0.04
26.976	cis-para-Menth-2-en-1-ol	0.02
27.160	allo-Ocimene	0.26
28.020	neo-allo-Ocimene	0.01
28.455	Hexyl isobutyrate	0.06
28.571	Camphor	0.20
28.690	Unidentified	0.02
28.801	Nerol oxide	0.02
29.409	Unidentified	0.01
29.612	Lavandulol	0.97
30.070	cis-Linalool oxide (pyranoid)	0.01
30.288	Borneol	0.65
30.462	(3Z,5E)-1,3,5-Undecatriene	0.01
30.887	Terpinen-4-ol	4.51
31.294	Cryptone	0.17
31.527	Hexyl butyrate	0.28
31.862	alpha-Terpineol	1.24
32.932	Unidentified	0.00
33.804	Nerol	0.13
34.166	Bornyl formate	0.03
34.564	Hexyl 2-methylbutyrate	0.02
35.010	Unidentified	0.01
35.131	Cuminaldehyde	0.07

R.Time	Name	Area%
35.574	Linalyl acetate	34.55
36.309	Unidentified	0.01
36.999	Unidentified	0.01
37.764	Lavandulyl acetate	3.28
37.912	Bornyl acetate	0.19
41.475	Unidentified	0.01
41.992	beta-Terpinyl acetate	0.02
42.707	Neryl acetate	0.35
43.978	Geranyl acetate	0.66
44.507	Hexyl hexanoate	0.06
44.678	7-epi-Sesquithujene	0.05
45.617	Sesquithujene isomer	0.01
45.838	cis-beta-Caryophyllene	0.01
46.321	cis-alpha-Bergamotene	0.04
46.696	alpha-Santalene	0.33
46.804	trans-beta-Caryophyllene	4.24
47.560	trans-alpha-Bergamotene	0.11
48.267	Unidentified	0.03
48.447	epi-beta-Santalene	0.02
48.726	(E)-beta-Farnesene	2.27
49.026	alpha-Humulene	0.15
49.240	Unidentified	0.02
50.593	Germacrene D	0.23
50.728	(Z,E)-alpha-Farnesene	0.05
51.925	Unidentified	0.01
52.164	beta-Bisabolene	0.02
52.519	gamma-Cadinene	0.13
52.780	Unidentified	0.03
56.611	Caryophyllene oxide	0.27
59.984	tau-Cadinol	0.07
		100.00