

Sample Information

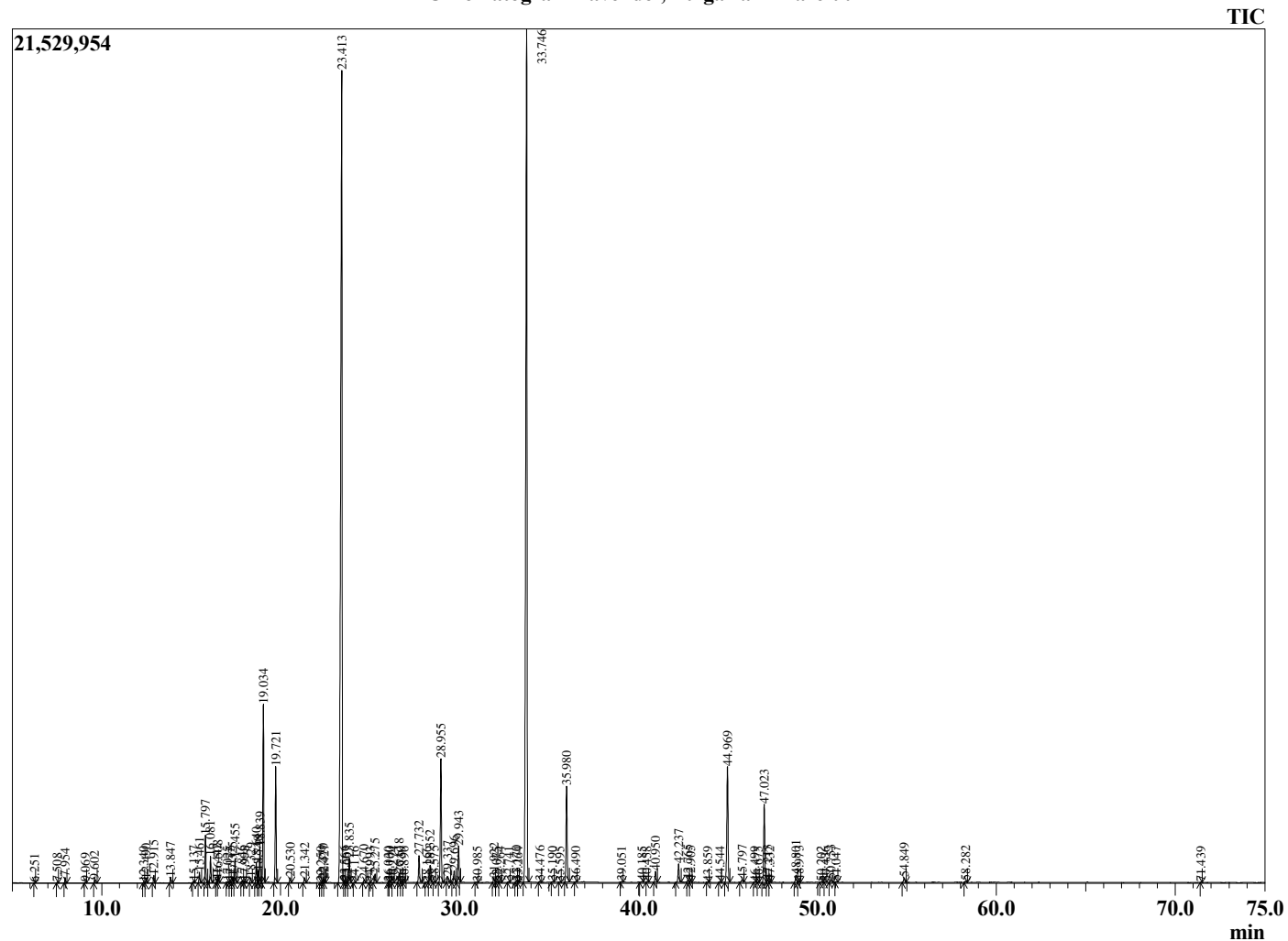
Analyzed by : Dr. Robert S. Pappas  
 Analyzed : 2/20/2021 1:32:40 AM  
 Sample Type : Essential Oil  
 Sample Name : Lavender, Bulgarian - Barefut  
 Sample ID : 0113  
 Injection Volume : 0.10  
 Instrument ID : GC-3



Peak Report TIC

R.Time	Name	Area%
4.230	3-Methylbutanal	0.02
4.339	2-Methylbutanal	0.01
6.251	Toluene	0.01
7.508	Butyl acetate	0.01
7.954	Hexyl methyl ether	0.11
9.069	Hex-3(Z)-enol	0.02
9.602	n-Hexanol	0.07
12.340	Tricyclene	0.02
12.490	alpha-Thujene	0.09
12.915	alpha-Pinene	0.18
13.847	Camphene	0.14
15.137	Sabinene	0.04
15.461	Octen-3-ol	0.26
15.797	3-Octanone	1.16
16.081	Myrcene	0.65
16.442	Butyl butyrate	0.08
16.508	3-Octanol	0.19
17.025	Pseudolimonene	0.03
17.175	alpha-Phellandrene	0.04
17.325	delta-3-Carene	0.15
17.455	Hexyl acetate	0.60
17.846	alpha-Terpinene	0.05
17.998	meta-Cymene	0.03
18.329	para-Cymene	0.13
18.640	Limonene	0.52
18.748	beta-Phellandrene	0.29
18.839	1,8-Cineole	0.89
19.034	(Z)-beta-Ocimene	4.70
19.721	(E)-beta-Ocimene	3.09
20.530	gamma-Terpinene	0.14
21.342	cis-Linalool oxide (furanoid)	0.16
22.250	Unidentified	0.01
22.370	Terpinolene	0.10
22.427	trans-Linalool oxide (furanoid)	0.08
23.413	Linalool	33.15
23.566	Hotrienol	0.04
23.667	Hexyl propionate	0.04
23.835	1-Octen-3-yl acetate	0.70
24.116	Heptyl acetate	0.01
24.670	3-Octyl acetate	0.09
24.993	Unidentified	0.01
25.275	allo-Ocimene	0.25
26.030	Unidentified	0.01
26.100	Ocimene isomer	0.03
26.274	trans-para-Menth-2-en-1-ol	0.01
26.618	Camphor	0.26
26.739	Unidentified	0.02
26.896	Unidentified	0.01
27.732	Lavandulol	0.79
28.166	Unidentified	0.01
28.352	Borneol	0.50
28.575	1,3,5-Undecatriene	0.02
28.955	Terpinen-4-ol	3.67
29.337	Cryptone	0.18
29.696	Hexyl butyrate	0.37
29.943	alpha-Terpineol	1.09
30.985	Unidentified	0.02
31.922	Nerol	0.14
32.075	Citronellol	0.02
32.264	Bornyl formate	0.03
32.741	Hexyl 2-methylbutyrate	0.03
33.170	Cuminal	0.06

Chromatogram Lavender, Bulgarian - Barefut



Comments:

The analysis of this Lavender 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.

R.Time	Name	Area%
33.264	Carvone	0.02
33.746	Linalyl acetate	32.57
34.476	Unidentified	0.04
35.190	Isopulegyl acetate	0.02
35.595	Phellandral	0.01
35.980	Lavandulyl acetate	3.02
36.490	Cumin alcohol	0.02
39.051	Hexyl tiglate	0.02
40.185	alpha-Terpinyl acetate	0.03
40.458	Eugenol	0.02
40.950	Neryl acetate	0.34
42.237	Geranyl acetate	0.59
42.765	Hexyl hexanoate	0.08
42.905	7-epi-Sesquithujene	0.06
43.859	Sesquithujene isomer	0.01
44.544	cis-alpha-Bergamotene	0.03
44.969	trans-beta-Caryophyllene	4.07
45.797	trans-alpha-Bergamotene	0.11
46.499	Unidentified	0.02
46.675	epi-beta-Santalene	0.01
47.023	(E)-beta-Farnesene	2.57
47.213	alpha-Humulene	0.09
47.332	Farnesene isomer	0.02
48.801	Germacrene D	0.24
48.973	(Z,E)-alpha-Farnesene	0.04
50.202	(E,E)-alpha-Farnesene	0.02
50.436	beta-Bisabolene	0.02
50.753	gamma-Cadinene	0.10
51.047	delta-Elementene	0.02
54.849	Unidentified	0.17
58.282	tau-Cadinol	0.05
71.439	Unidentified	0.01
		100.00