

AGRICULTURAL UNIVERSITY OF ATHENS



**SCHOOL OF FOOD AND NUTRITIONAL SCIENCES
DEPARTMENT OF FOOD SCIENCE AND HUMAN NUTRITION**

LABORATORY OF CHEMISTRY

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Dated: 30 November 2019

Sample nature:	Lavender essential oil
Botanical species:	<i>Lavandula stoechas</i>
Origin:	GREECE
Date analysis:	15/10/2019
Packaging:	Glass bottle
Analysis:	GC-MS

Analyst

**Validated report by
Laboratory of General Chemistry**

Eleni Kakouri

PhD candidate

Prof. Petros Tarantilis

GAS CHROMATOGRAPHY

ANALYSIS CONDITIONS

Apparatus: Bruker Scion™ SQ Series GC-MS

Column: Thermo 5MS

Sample name: *Lavandula stoechas*

Carrier gas: Helium

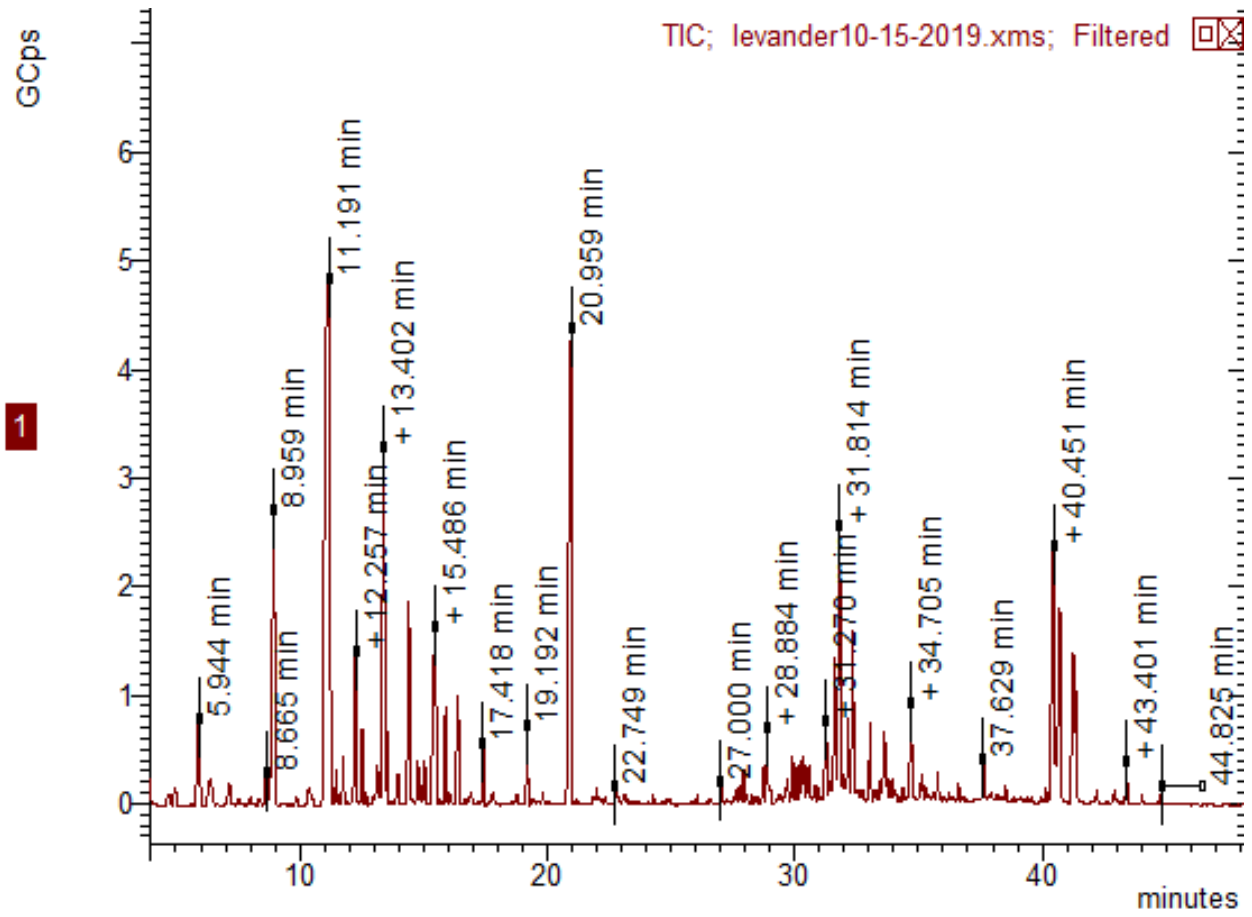
Flow rate (mL/min): 1

Sample solvent: Acetone

Injection volume (μL) / Split ratio: 1 μL/Spiltless

The thermal program was 60°- 280°C at a rate of 4°C/min;

Identification results: *Lavandula stoechas*, GREECE.



Retention Time (min.)	%	Compound name
5.944	2	α -pinene
8.665	1	p-Cymene
8.959	6	1,8-Cineole
11.191	23	Fenchone
11.470	0.37	Linalool
12.257	2	Fenchol
12.526	1	α -Campholenal
13.141	1	trans-Pinocarveol
13.402	7	Camphor
13.523	1	unknown
13.974	0.38	Pinocarvone
14.416	3	α -Phellandren-8-ol
14.778	1	Terpinen-4-ol
15.050	1	p-Cymen-8-ol
15.393	2	Myrtenal
15.486	2	Myrtenol
15.889	1	Verbenone
16.381	2	Fenchyl acetate
17.418	1	Carvone
19.192	1	Bornyl acetate
20.959	12	Myrtenyl acetate
22.749	0.16	Cyclosativene
27.000	0.26	γ -Muurolene
28.884	1	γ -Cadinene
31.270	1	Caryophyllene oxide
31.623	2	Propanoic acid, 2-methyl-, 1-(1,1-dimethylethyl)-2-methyl-1,3-propanediyl ester
31.814	5	Globulol
32.170	1	Viridiflorol
32.352	2	Ledol
33.052	1	1-epi-Cubenol
33.629	1	epi- α -Muurolol
33.741	0.18	α -Muurolol
34.705	2	unknown
40.451	6	unknown
40.712	4	unknown
41.257	3	unknown
41.370	2	unknown

% of the identified compounds: 84%