

Certificate Of Analysis

Mass spectra were recorded with a 5973 Agilent Selective detector coupled to a 6890N Agilent GC using an Agilent 50 m x 0.2 mm fused silica column coated with 0.33 μ m FFAP (crosslinked). The GC was operated under the following conditions: injector temp.: 250°C; oven temp. programmed: 60°C held for one min to 115°C at 2.5°C per min, then to 210°C at 1.0°C per min and held for 30 min; injection size: 1 μ L (~50% solution in spectroscopy grade n-pentane) split 1:10. The MSD EI was operated under the following conditions: electron impact source 70 eV, 250°C.

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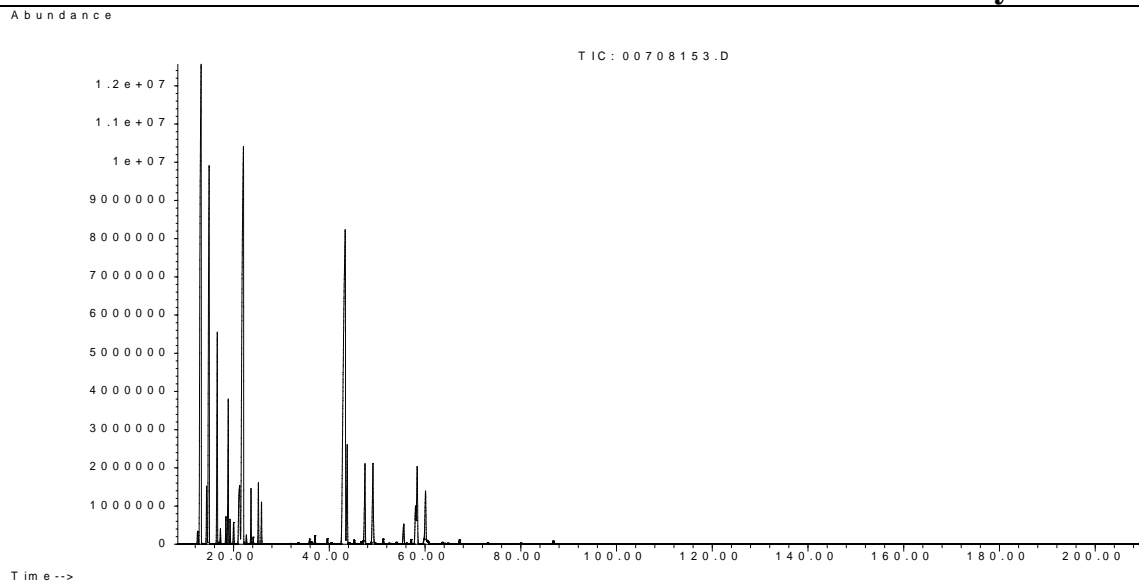
Sample: rosemary organic, flowering tops & leaves-Spain

Species: *Rosmarinus officinalis*

Client: Rosanne Tartaro

Date: 7/9/15

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The composition of the sample corresponds to that expected for the natural variation of essential oil of *Rosmarinus officinalis* high in camphor and 1,8-cineole. Odor quality is very good.

Main Components		
RT	Component ID	Area %
12.49	tricyclene	0.32
13.21	alpha-pinene	18.75
14.37	alpha-fenchene	1.15
14.88	camphene	10.21
16.59	beta-pinene	4.18
17.00	sabinene	0.03
18.41	delta-3-carene	0.51
18.89	beta-myrcene	2.84
19.27	alpha-phellandrene	0.38
20.01	alpha-terpinene	0.45
21.25	limonene	2.51
22.05	1,8-cineole	19.76
22.68	(E)-beta-ocimene	0.14
23.64	gamma-terpinene	0.88
24.10	3-octanone	0.11
25.18	p-cymene	1.00
25.83	alpha-terpinolene	0.67
36.17	p-cymenene	0.06
39.59	alpha-ylangene	0.12
43.32	camphor	20.73
43.74	linalool	2.51
45.22	iso-pinocamphone	0.11
47.45	bornyl acetate	2.26
49.11	beta-caryophyllene	2.61
60.09	verbenone	1.84
60.41	beta-bisabolene	0.09
86.77	caryophyllene oxide	0.08

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