



PLANT THERAPY

100% PURE ESSENTIAL OILS

GC/MS BATCH NUMBER: 050100

ESSENTIAL OIL: OREGANO ORGANIC
BOTANICAL NAME: ORIGANUM VULGARE
ORIGIN: HUNGARY

KEY CONSTITUENTS IN THIS BATCH OF ORGANIC OREGANO OIL	%
CARVACROL	63.0
p-CYMENE	13.1
γ -TERPINENE	9.9
THYMOL	2.8
LINALOOL	2.1
α -PINENE	1.9
β -MYRCENE	1.6
β -CARYOPHYLLENE + METHYL CARVACROL ETHER	1.4
α -TERPINENE	1.0

Comments from Robert Tisserand: Smells like a very good oregano oil, and the constituents are in good and appropriate concentrations.

CUSTOMER :

**PLANT THERAPY
126 Locust Street South
Twin Falls, ID 83 301
USA**

Sample nature: ESSENTIAL OIL
Botanical species: ORIGANUM sp.
Reference name: OREGANO ORGANIC
Batch number: O50100
Origin: HUNGARY
Part: LEAF ANF FLOWER
Pyre^essences reference: B189
Date of reception: 11/08/2014
Date analysis: 26/08/2014
Packaging: Amber flask of 5 ml – ambient temperature
Analysis: Classic

Validated report by :

Daniel DANTIN



GAS CHROMATOGRAPHY norm NF ISO 11024

Analysis conditions :

CPG 6890 / MS 5973 – Column : VF WAX polar 60 m × 0,25 mm × 0,5 µm

CPG 5890 FID - Column : INNOWAX polar 60 m × 0,25 mm × 0,5 µm

Temperature program : 6 mn to 60 °C -2 °C/mn→250 °C - 20mn to 250 °C

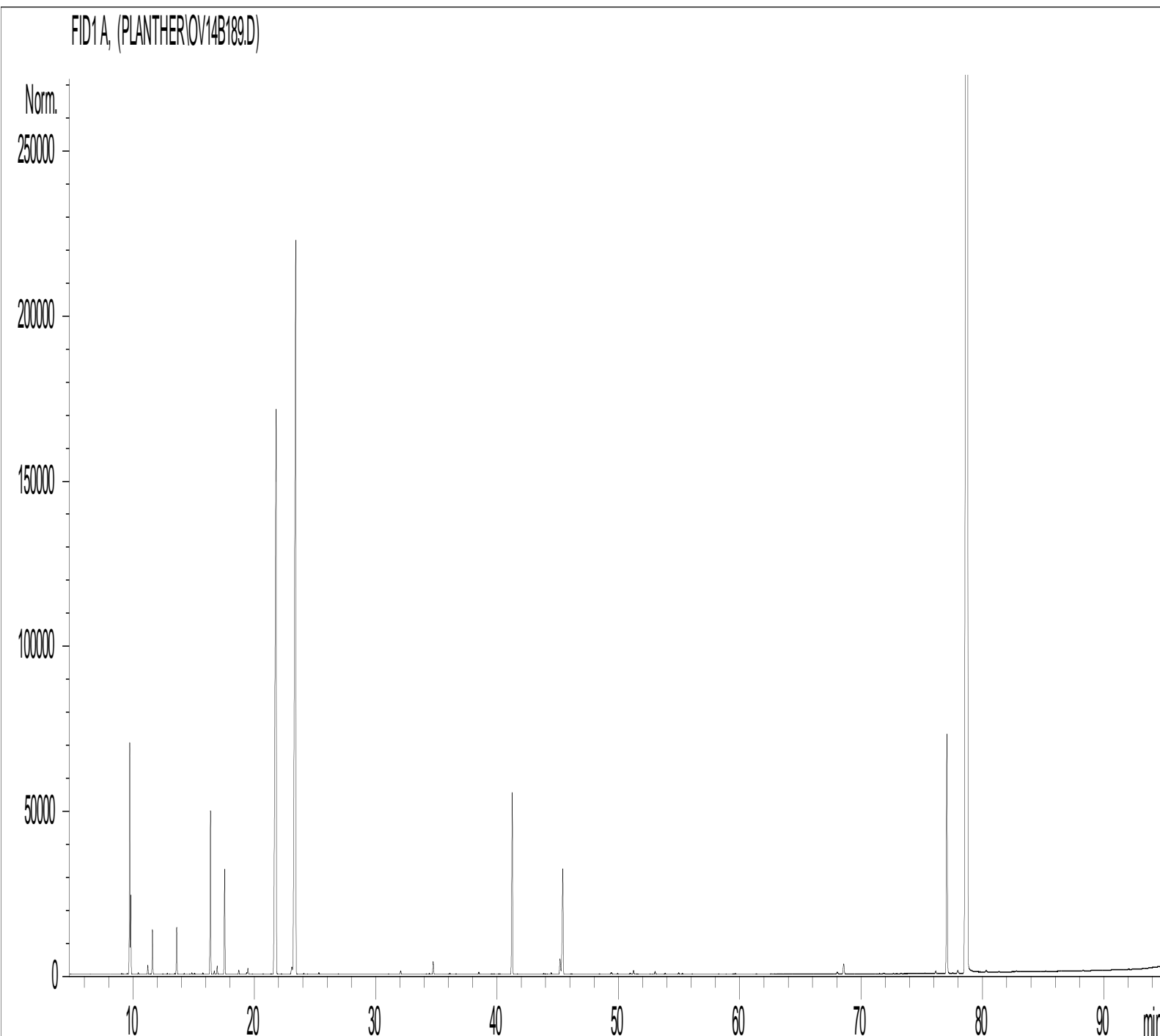
Carrier gas He : 23 psis/MS – 30 psis/FID

Sample injection / split : 1 µl of 10 % solution in hexane,

Mass range : 30 to 350, Oil components are identified by a combination of retention times (our own database) and mass spectra library NKS 75 000 records,

Percentages are calculated from GC/FID peaks areas without using corrections factors,

Chromatographic profile (GC/FID)



Identification results 1 : OREGANO ORGANIC BATCH O50100

Peak	RT (min)	Compound name	%	Norm	Allergens
1	4,9	ACETONE	0,01		
2	5,9	ETHYL ACETATE	0,01		
3	6,5	BUTANAL, 2-METHYL	0,01		
4	6,6	ISOVALERALDEHYDE	0,01		
5	9,2	TRICYCLENE	0,01		
6	9,4	METHYL ISOVALERATE	0,01		
7	9,7	α -PINENE	1,92		
8	9,8	α -THUYENE	0,56		
9	10,4	p-MENTHANE	0,02		
10	11,2	α -FENCHENE	0,08		
11	11,5	ETHYL ISOVALERATE	0,01		
12	11,7	CAMPHENE	0,40		
13	12,5	OCTADIENE DIMETHYL ISOMER	0,01		
14	12,8	OCTADIENE DIMETHYL ISOMER	0,01		
15	13,6	β -PINENE	0,45		
16	14,5	PINADIENE	0,01		
17	14,8	THUYADIENE	0,01		
18	14,9	Δ 2-CARENE	0,02		
19	15,1	p-MENTH-2-ENE	0,02		
20	15,8	Δ 3-CARENE	0,02		
21	16,4	β -MYRCENE	1,57		
22	16,7	α -PHELLANDRENE	0,03		
23	16,9	ψ -LIMONENE	0,08		
24	17,6	α -TERPINENE	1,04		
25	18,7	LIMONENE	0,05		0,05
26	19,4	β -PHELLANDRENE	0,02		
27	19,5	1,8-CINEOLE	0,07		
28	20,7	Cis- β -OCIMENE	0,01		
29	21,9	γ -TERPINENE	9,91		
30	22,0	Trans- β -OCIMENE	0,01		
31	22,3	3-OCTANONE	0,01		
32	23,1	3,8-p-MENTHADIENE	0,11		
33	23,4	p-CYMENE	13,09		
34	24,1	TERPINOLENE	0,01		
35	25,3	CYMENE ISOMER	0,02		
36	30,4	3-HEXEN-1-OL	0,01		
37	31,1	3-OCTANOL	0,01		
38	32,1	FENCHONE	0,04		
39	34,2	TERPENIC KETONE	0,01		
40	34,4	α ,p-DIMETHYLSTYRENE + LINALOOL cis-OXIDE	0,01		
41	34,7	1-OCTEN-3-OL	0,14		
42	36,1	Trans-THUYANOL	0,02		
43	36,6	LINALOOL trans-OXIDE	0,01		
44	38,5	α -COPAENE	0,03		
45	39,6	TERPENIC KETONE	0,01		

Identification results 2 : OREGANO ORGANIC BATCH O50100

Peak	RT (min)	Compound name	%	Norm	Allergens
46	40,1	CAMPHOR	0,02		
47	41,3	LINALOOL	2,05		2,05
48	41,8	Cis-THUYANOL	0,01		
49	43,9	FENCHOL + METHYL THYMOL ETHER	0,02		
50	44,5	METHYL THYMOL ETHER ISOMER	0,02		
51	45,2	TERPINENE-4-OL	0,21		
52	45,4	β -CARYOPH, + METHYL CARVACROL ETHER	1,40		
53	46,1	Cis-DIHYDROCARVONE	0,02		
54	49,4	2-PROPANAMINE-N-PHENYLMETHYLENE	0,04		
55	49,9	α -HUMULENE	0,01		
56	50,9	γ -MUUROLENE	0,01		
57	51,0	α -TERPINEOL	0,01		
58	51,2	BORNEOL	0,05		
59	53,0	β -BISABOLENE	0,04		
60	53,9	CARVONE	0,02		
61	55,0	δ -CADINENE	0,02		
62	55,3	γ -CADINENE	0,01		
63	59,6	p-CYMENE-8-OL	0,01		
64	68,0	ISOCARYOPHYLLENE EPOXIDE	0,03		
65	68,6	CARYOPHYLLENE EPOXIDE	0,15		
66	76,2	ISOTHYMOL	0,03		
67	77,1	THYMOL	2,80		
68	78,0	ISOCARVACROL	0,04		
69	78,8	CARVACROL	63,02		
70	80,3	PHENOLIC COMPOUND	0,02		
71	82,8	PHENOLIC COMPOUND	0,01		
		TOTAL	99,99		2,10