



PLANT THERAPY

100% PURE ESSENTIAL OILS

GC/MS BATCH NUMBER: O40100

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

KEY CONSTITUENTS PRESENT IN THIS BATCH OF OREGANO OIL	%
CARVACROL	65.6
p-CYMENE	10.2
γ -TERPINENE	8.5
THYMOL	3.7
LINALOOL	2.4
α -PINENE	1.9
β -MYRCENE	1.9
β -CARYOPHYLLENE + METHYL CARVACROL ETHER	1.5
α -TERPINENE	1.1

Comments from Robert Tisserand: Smells great, 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 VULGARE
Reference name : ORIGANUM
Batch number : O40100
Origin : HUNGARY
Part: LEAF ANF FLOWER
Pyre^essences reference : C104
Date of reception : 11/28/2014
Date analysis : 11/28/2014
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

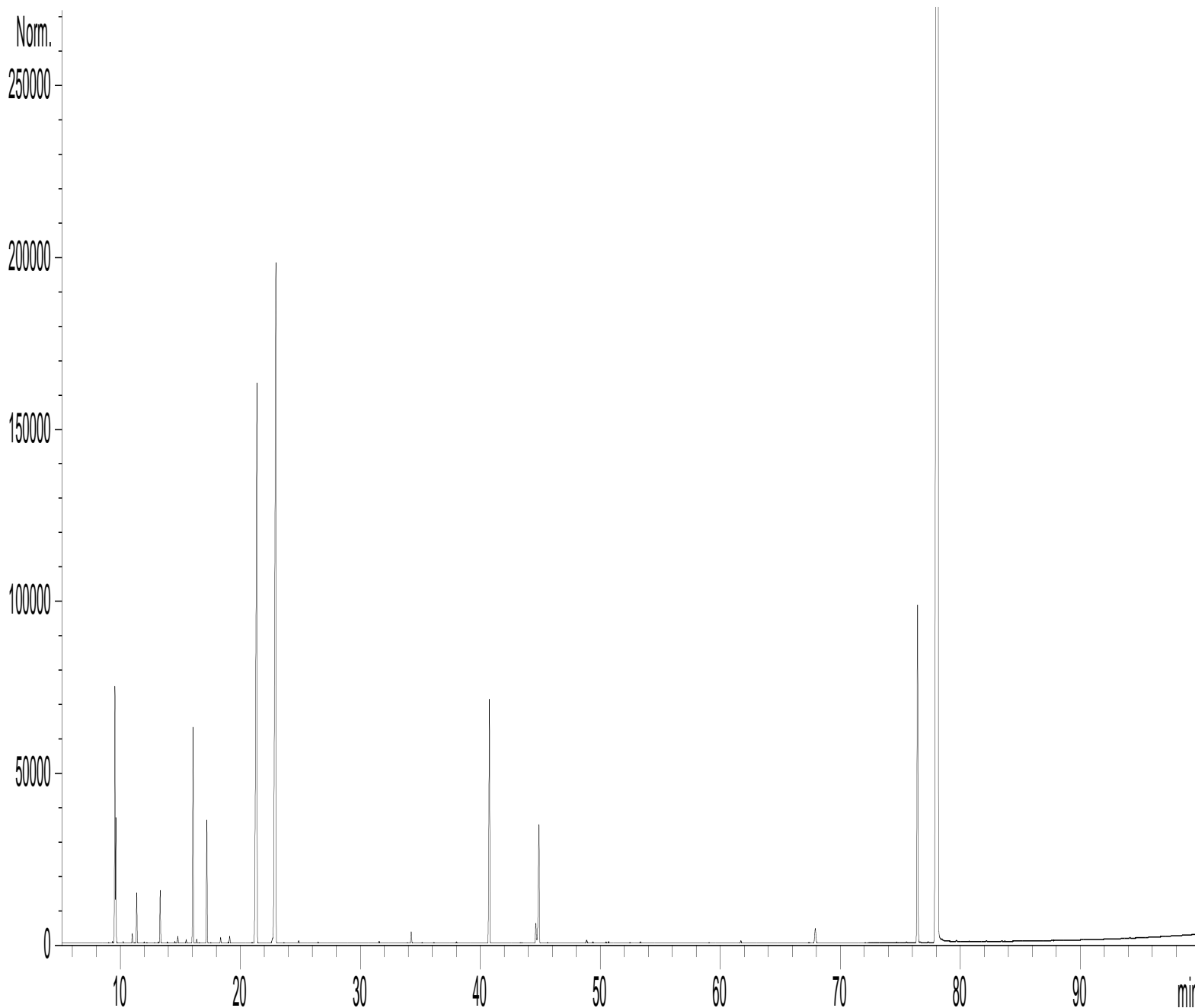
Sample injection / split : 1 µl of 10 % solution in hexane,

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)

FID1 A, (Y:\PLANTHER\OV14C104.D)



Identification results 1 : ORIGANUM HUNGARY BATCH O40100

Peak	RT (min)	Compound name	%	Norm	Allergens
1	9,0	TRICYCLENE	0,01		
2	9,3	METHYL ISOVALERATE	0,02		
3	9,5	α -PINENE	1,90		
4	9,6	α -THUYENE	0,76		
5	10,2	p-MENTHANE	0,01		
6	11,0	α -FENCHENE	0,08		
7	11,2	ETHYL ISOVALERATE	0,01		
8	11,4	CAMPHENE	0,40		
9	12,0	OCTADIENE DIMETHYL ISOMER	0,01		
10	12,2	OCTADIENE DIMETHYL ISOMER	0,01		
11	13,2	OCTADIENE DIMETHYL ISOMER	0,01		
12	13,3	β -PINENE	0,46		
13	13,9	SABINENE	0,01		
14	14,4	THUYADIENE	0,01		
15	14,5	Δ 2-CARENE	0,02		
16	14,8	p-MENTH-2-ENE	0,07		
17	15,5	Δ 3-CARENE	0,04		
18	16,1	β -MYRCENE	1,86		
19	16,4	α -PHELLANDRENE	0,04		
20	16,6	ψ -LIMONENE	0,01		
21	17,2	α -TERPINENE	1,08		
22	18,3	LIMONENE	0,05		0,05
23	19,0	β -PHELLANDRENE	0,01		
24	19,1	1,8-CINEOLE	0,07		
25	20,3	Cis- β -OCIMENE	0,01		
26	21,0	TERPENE ISOMER	0,01		
27	21,4	γ -TERPINENE	8,54		
28	21,5	Trans- β -OCIMENE	0,01		
29	22,0	3-OCTANONE	0,01		
30	22,7	3,8-p-MENTHADIENE	0,07		
31	22,9	p-CYMENE	10,15		
32	23,6	TERPINOLENE	0,01		
33	24,8	CYMENE ISOMER	0,03		
34	26,5	PINOL	0,02		
35	30,6	3-OCTANOL	0,01		
36	31,6	FENCHONE	0,03		
37	33,9	α ,p-DIMETHYLSTYRENE + LINALOOL cis-OXIDE	0,01		
38	34,2	1-OCTEN-3-OL	0,12		
39	35,2	6-HEPTEN-1-OL, 2-METHYL	0,01		
40	36,1	LINALOOL trans-OXIDE	0,01		
41	38,0	α -COPAENE	0,02		
42	39,2	TERPENIC KETONE	0,01		
43	39,6	CAMPHOR	0,01		
44	40,7	LINALOOL	2,46		2,46
45	42,1	CYCLOHEPTADIENONE TRIMETHYL Mw=150	0,01		

Identification results 2 : ORIGANUM HUNGARY BATCH O40100

Peak	RT (min)	Compound name	%	Norm	Allergens
46	43,2	METHYL FURFURAL	0,01		
47	43,3	ε-CADINENE	0,01		
48	43,4	BORNYL ACETATE	0,01		
49	44,6	TERPINENE-4-OL	0,21		
50	44,9	β-CARYOPH. + METHYL CARVACROL ETHER	1,45		
51	45,6	AROMADENDRENE	0,02		
52	45,8	Cis-DIHYDROCARVONE	0,01		
53	48,8	2-PROPANAMINE-N-PHENYLMETHYLENE	0,05		
54	49,4	α-HUMULENE	0,02		
55	50,2	γ-MUUROLENE	0,01		
56	50,5	α-TERPINEOL	0,02		
57	50,7	BORNEOL	0,02		
58	51,0	LEDENE	0,01		
59	52,5	β-BISABOLENE	0,01		
60	53,3	CARVONE	0,02		
61	54,4	δ-CADINENE	0,01		
62	54,7	γ-CADINENE	0,01		
63	58,9	GERANIOL	0,01		0,01
64	59,0	p-CYMENE-8-OL	0,01		
65	61,7	QUINOLINE TETRAHYDRO METHYL Mw=147	0,03		
66	67,4	ISOCARYOPHYLLENE EPOXIDE	0,01		
67	67,9	CARYOPHYLLENE EPOXIDE	0,24		
68	75,5	ISOTHYMOL	0,01		
69	76,4	THYMOL	3,65		
70	77,3	ISOCARVACROL	0,01		
71	78,1	CARVACROL	65,59		
72	79,6	PHENOLIC COMPOUND	0,01		
73	82,2	PHENOLIC COMPOUND	0,01		
		TOTAL	99,99		2,52