PLANT THERAPY
100% PURE ESSENTIAL OILS

GC/MS BATCH NUMBER: CW0101

ESSENTIAL OIL: CATNIP
BOTANICAL NAME: NEPETA CATARIA
ORIGIN: CANADA

KEY CONSTITUENTS PRESENT IN THIS BATCH OF CATNIP OIL	%
NEPETALACTONE	56.0
NEPETALACTONE ISOMER	22.4
β-CARYOPHYLLENE	7.1
NEPETALACTONE ISOMER	2.6
CARYOPHYLLENE EPOXIDE	2.0
EPINEPETALACTONE	1.8
DEHYDRONEPETALACTONE ISOMER	1.5
CARVONE	1.4

Comments from Robert Tisserand: Catnip oils are unique because of their high content of nepetalactone constituents, at up to 90%, as seen in this essential oil which has 85%.

CUSTOMER :

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

Sample nature :	ESSENTIAL OIL
Botanical species :	NEPETA CATARIA
Reference name :	CATNIP
Batch number :	CW0101
Origin :	CANADA
Part:	FLOWERING TOP
Pyrenessences reference :	F064
Date of reception :	10/02/2015
Date analysis :	10/15/2015
Packaging :	Brown flask of 5 ml – ambient temperature
Analysis :	Classic

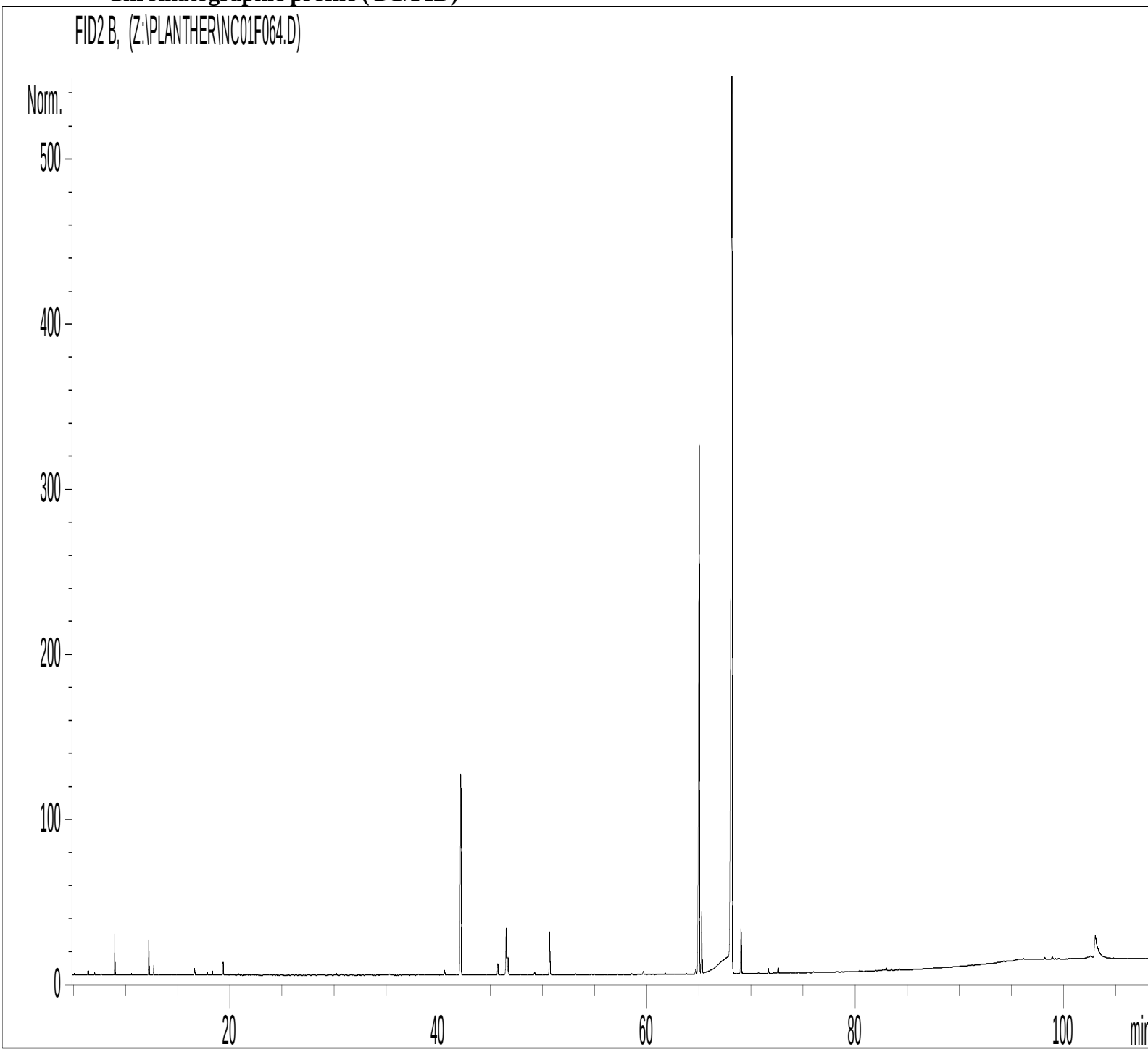
Validated report by : **Daniel DANTIN**

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 6890 FID - Column : VF WAX 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 : CATNIP CANADA BATCH N° CW0101

Peak	RT (min)	Component name	%	Norm (%)	Allergens (%)
1	5,1	BUTANAL	0,02		
2	6,4	BUTANAL, 2-METHYL	0,06		
3	6,5	ISOVALERALDEHYDE	0,07		
4	7,0	FURAN, 2-ETHYL	0,04		
5	8,4	METHYL, 2-METHYLBUTYRATE	0,02		
6	8,9	OCTATRIENE ISOMER Mw=108	0,01		
7	9,0	α-PINENE	0,79		
8	10,5	CAMPHENE	0,03		
9	12,2	β-PINENE	0,89		
10	12,7	SABINENE	0,21		
11	14,4	β-MYRCENE	0,02		
12	16,6	LIMONENE	0,15		0,15
13	17,2	β-PHELLANDRENE	0,02		
14	17,8	2-HEXENAL	0,06		
15	18,3	Cis-β-OCIMENE	0,10		
16	19,4	Trans-β-OCIMENE	0,31		
17	20,1	STYRENE	0,03		
18	20,8	p-CYMENE	0,06		
19	21,6	TRIDECANE	0,02		
20	30,2	TETRADECANE	0,06		
21	30,7	ETHANONE, METHYLCYCLOPENTENYL	0,03		
22	31,7	1-OCTEN-3-OL	0,03		
23	38,1	LINALOOL	0,04		0,04
24	40,6	ISOCARYOPHYLLENE	0,15		
25	42,2	**β-CARYOPHYLLENE**	**7,10**		
26	45,7	E-β-FARNESENE	0,34		
27	46,5	DEHYDRONEPETALACTONE ISOMER	1,53		
28	46,7	α-HUMULENE	0,59		
29	49,2	5-HEPTENAL, 2,6-DIMETHYL	0,08		
30	50,7	CARVONE	1,44		
31	53,1	METHYL SALICYLATE	0,04		
32	59,7	NEPETALACTONE ISOMER	0,10		
33	61,8	ALIPHATIC ESTER	0,07		
34	64,7	NEPETALACTONE ISOMER	0,19		
35	65,0	**NEPETALACTONE ISOMER**	**22,39**		
36	65,3	CARYOPHYLLENE EPOXIDE	1,98		
37	68,2	**NEPETALACTONE**	**55,96**		
38	69,1	EPINEPETALACTONE	1,76		
39	71,7	DIHYDRONEPETALACTONE	0,16		
40	72,6	PENTADECANONE TRIMETHYL	0,24		
41	83,5	NEPETALACTONE COMPONENT	0,07		
42	103,1	NEPETALACTONE ISOMER Mw=166	2,64		
		TOTAL	**99,90**		**0,19**