Client/Code

Date No.
Source 09Nov17 2:07p W136927
Type of Sample cannabis - wax
No. of Samples other
1

Comments
Arrival temp.: 23.0C
Sample: SJ TH1 PD E-transfer Batch 834

CANNABINOLS

Compounds	Sample	Lab Blank	S_o	Units	reference recovery(%)
Delta-9 THC	0.510	ND	0.001	%	100
Delta-9 THC Acid	77.4	ND	0.001	%	98.2
Delta-8 THC	ND	ND	0.001	%	99.3
Delta-8 THC Acid	ND	ND	0.001		
Cannabichromene (CBC)	ND	ND	0.001	%	99.4
Cannabichromene-Acid	0.700	ND	0.001	%	99.6
Cannabidiol (CBD)	0.070	ND	0.001	%	98.1
Cannabidiol-Acid	0.160	ND	0.001		99.7
Cannabigerol (CBG)	0.660	ND	0.001	%	99.1
Cannabigerol-Acid	1.68	ND	0.001		97.5
Cannabicyclol (CBL)	ND	ND	0.001	%	94.8
Cannabicyclol-Acid	ND	ND	0.001	%	
Cannabidivarin (CBDV)	ND	ND	0.001	%	97.7
Cannabidivarin-Acid	ND	ND	0.001	%	98.1
Delta-9 THCV	ND	ND	0.001	%	99.3
Delta-9 THCV Acid	0.300	ND	0.001		
Cannabinol (CBN)	ND	ND	0.001	%	98.5
Moisture	4.77			%	

Methods: solvent extraction; measured by LC-ESI-MSMS and UPLC-UV.
Pharma.Intern 1.14 & based on USP monograph 29
So = standard deviation at zero analyte concentration; method detection limit is generally considered to be 3x So value
ND = none detected n/a = not applicable
ug/g = micrograms per gram (ppm), ug/Kg = micrograms per kilogram (ppb)
% = percent (10mg/g = 1.0 %)
^9 -THC = delta 9-tetrahydrocannabinol, ^8 -THC = delta 8-tetrahydrocannabinol

Material will be held for upto 3 weeks unless alternative arrangements have been made.
Sample holding time may vary and is dependant upon MBL licence restrictions.

A. Bilodeau
Analytical Chemist

H. Hartmann
Sr.Analytical Chemist

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Client/Code

Date
Source 09Nov17 2:07p
Type of Sample Cannabis - wax
No. of Samples other
1

No. W136927 P2

Comments
Arrival temp.: 23.0C
PD E-transfer Batch 834

Sample: SJ THI

Solvent Residue

Solvent	Class	Sample	S_o	Units	Acceptance Criteria
Benzene	I	ND	0.05	ug/g	2 ppm
Methanol	II	ND	3.00	ug/g	3000 ppm
Hexane	II	ND	3.00	ug/g	290 ppm
Toluene	II	ND	3.00	ug/g	890 ppm
Butane	III	ND	3.00	ug/g	5000 ppm
Ethanol	III	ND	3.00	ug/g	5000 ppm
Isopropanol	III	ND	3.00	ug/g	5000 ppm
Pentanes	III	ND	3.00	ug/g	5000 ppm

So = standard deviation at zero analyte concentration; method detection limit is generally considered to be 3x So value
ND = none detected n/a = not applicable
ref: US Pharmacopeia National Formulary USP 38 NF 33 2015.
Class I to be avoided
Class II to be limited
Class III limit by GMP-low toxicity potential

R. Bilodeau
Analytical Chemist

H. Hartmann
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Client/Code

Date No.
Source 09Nov17 2:07p W136927 P3
Type of Sample Cannabis - wax
No. of Samples other
1

Comments
Arrival temp.: 23.0C
PD E-transfer Batch 834

Sample: SJ THI

PESTICIDE ANALYSIS SCREEN & TARGET COMPOUNDS -Cannabis

Test Compound Groups*	Sample	Lab Blank	Units
Organophosphates	ND	<0.10	ug/g
Organochlorines	ND	<0.10	ug/g
Carbamates	ND	<0.10	ug/g
Organonitrogens	ND	<0.10	ug/g
Non-Ionic Herbicides	ND	<0.10	ug/g
Ionic Herbicides	ND	<0.10	ug/g
Botanicals	ND	<0.10	ug/g
Carbamates	ND	ND	0.2-37 ng/g
Other	ND	ND	0.2-37 ng/g
-Pyrethroids	ND	ND	0.2-37 ng/g
-Avermectins	ND	ND	0.2-37 ng/g

Method 1: Analysis by GC/MS-MS. Data is analyzed using Agilent RTL Pesticide and Endocrine Disruptor Library with DRS (Deconvolution Reporting Software). The software uses the National Institute of Standards and Technology (NIST) Mass Spectral Search Program with NIST 2011 MS Library. Detection of compounds in the library are 10 ng/g (ppb) level or better. Procedure Ref. AOAC Method 2007.01; USP

Method 2: Analysis is carried out by using UPLC-ESI-MS/MS UV. Sample is solvent extracted then cleaned using dispersive SPE (QuEChERS) methods. Detection of compounds are 0.2-37 ng/g (ppb) level or better. Procedure Ref. AOAC Method 2007.01; USP

* list of total compounds attached

Notes: Some of the compounds analyzed in this method may be naturally occurring & have biological activity. These compounds may not be regulated.
ND = none detected
n/a = not applicable
Acceptance Criteria: none present or are on Health Canada Approved List

R. Bilodeau
Analytical Chemist

H. Hartmann
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Terpene Profile

W136927-1 SJ THI

Compound Name	mg/g	% of Total	Standard Recovery (%)
a-Pinene	6.02	15.55	97.7
Camphene	0.00	0.00	91.0
Sabinene	0.00	0.00	97.1
B-Pinene	2.10	5.44	94.5
Myrcene	24.77	64.00	99.1
a-Phellandrene	0.00	0.00	87.2
3-Carene	0.00	0.00	97.5
Cymene	0.00	0.00	102
D-Limonene	0.94	2.43	105
Eucalyptol	0.00	0.00	108
Ocimene	0.00	0.00	108
Sabinene hydrate	0.00	0.00	82.2
Fenchone	0.00	0.00	101
Terpinolene	0.00	0.00	94.4
Linalol	0.06	0.17	99.1
Fenchol	0.18	0.48	107
Camphor	0.00	0.00	96.3
Isopulegol	0.00	0.00	114
Isoborneol	0.00	0.00	106
Menthofuran	0.00	0.00	94.2
Borneol	0.18	0.47	102
Menthol	0.00	0.00	105
a-Terpineol	0.19	0.48	98.5
Nerol	0.00	0.00	115
Geraniol	0.00	0.00	112
Nerol acetate	0.00	0.00	103
Dihydrojasmone	0.00	0.00	106
Cedrene	0.00	0.00	100
Caryophyllene	2.47	6.38	102
Humulene	1.03	2.66	110
Valencene	0.00	0.00	95.2
Caryophyllene oxide	0.50	1.29	106
Guaiol	0.00	0.00	107
a-Bisabolol	0.26	0.66	104
Total	38.71		

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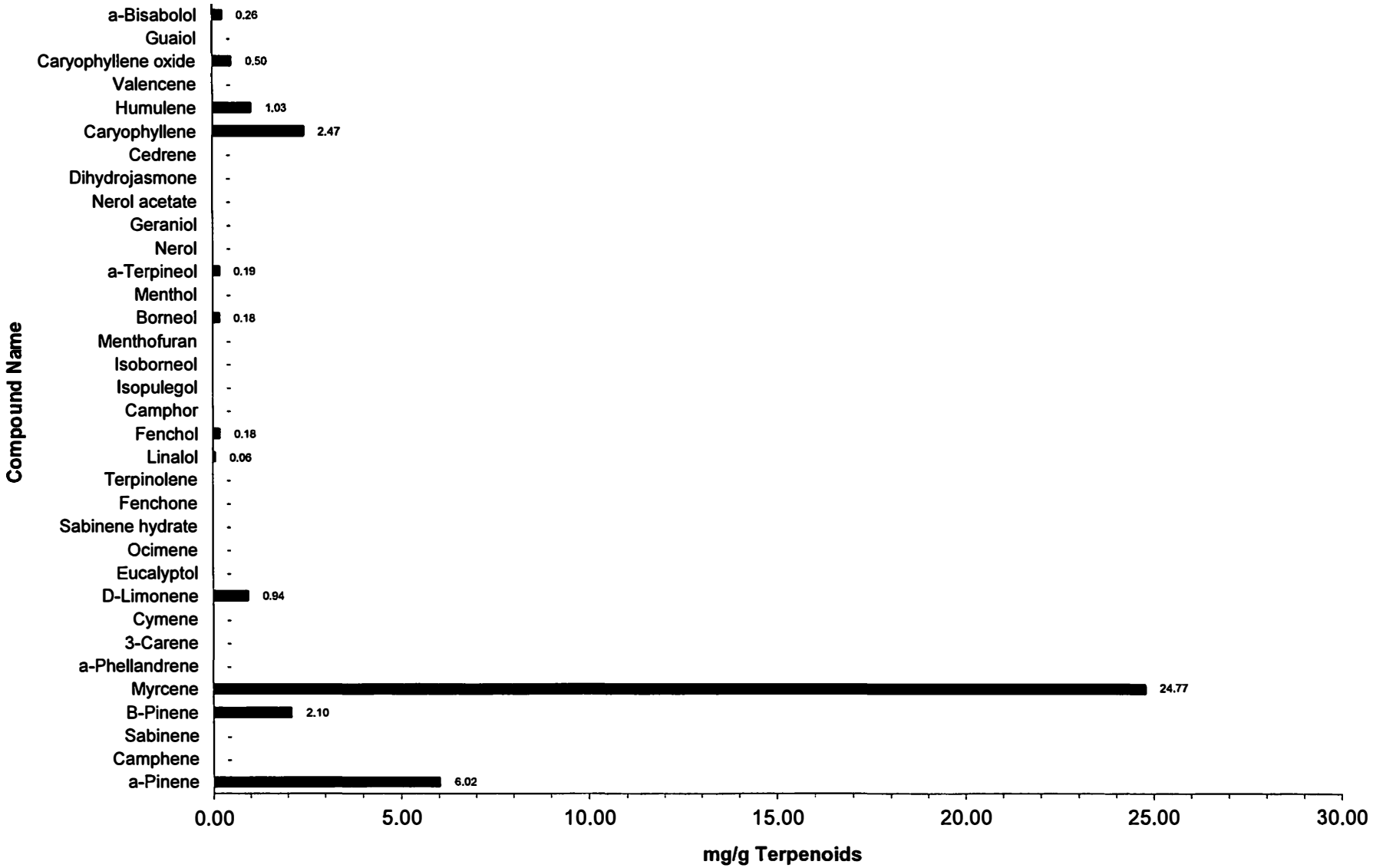
Terpene Profile

W136927-1 SJ THI



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