

Client/Code

Source Cannabis
Type of Sample other
No. of Samples 1

Comments Arrival temp.: 20.00
PD: Visa Batch 855

Sample: **UBC Chemo**

CANNABINOLS		Lab	reference
Compounds	Sample	Blank	recovery (%)
Delta-9 THC	0.300	ND	96.7
Delta-9 THC Acid 13.2% THC	13.2	ND	97.1
Delta-8 THC	ND	ND	95.9
Delta-8 THC Acid	ND	ND	0.001
Cannabidiol (CBD)	ND	ND	99.9
Cannabidiol-Acid	0.030	ND	99.1
Cannabinol (CBN)	ND	ND	98.7
Cannabinolic-Acid (CBNA)	0.035	ND	99.2
Moisture	11.8		%

Methods: solvent extraction; measured by LC-ESI-MSMS and UPLC-UV.

Pharma.Intern 1.14 * based on USP monograph 29

S₀ = standard deviation at zero analyte concentration; method detection limit
is generally considered to be 3x S₀ 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 %)

Δ9-THC = delta 9-tetrahydrocannabinol, Δ8-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.

R. Bilodeau
Analytical Chemist

H. Hartmann
Sr. Analytical Chemist



Client/Code

Source Cannabis
Type of Sample other
No. of Samples 1

Comments Arrival temp.: 20.0C
PD: Visa Batch 055

Sample: **UBC Chemo**

PESTICIDE ANALYSIS SCREEN & TARGET COMPOUNDS -Cannabis

Test Compound Groups*	Lab		Units	Compounds Found
	Sample	Blank		
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	<0.2-37	ng/g	
Other	ND	<0.2-37	ng/g	
-Pyrethroids	ND	<0.2-37	ng/g	
-Avermectins	ND	<0.2-37	ng/g	

**Grown with 100% organic
food and fertilizer.
Never sprayed with any
chemicals or pesticides.
Zero residue of
anything toxic!**

* see attached document for full list of compounds in analysis
 ** Trace = presence & identity verified, value below LOD (Limit of Quantitation)

Reference Standard Recoverys

Azoxystrobin	93.3 %	a-BHC	105 %
Carbofuran	105 %	Pyrimicarb	107 %
Malathion	86.9 %	2,4 DDE	110 %
Myclobutanil	102 %	Cypermethrin	98.7 %
Permethrin	106 %	Chlorpyrifos	89.5 %

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



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