

Client/Code

DBC Wholesale
P.O. Box 27005
Kelowna, BC
V1X 7L7

Date 08 May 19 3:24p
Source Cannabis
Type of Sample Other
No. of Samples 2

NoW147225

TEL: 778-214-6878
dbcwholesaleltd@gmail.com

Comments: arrival temp.: 20.0C
Pd MC Batch 910

Sample: 1) CBD - 1006 01May19 13:21p

CANNABINOLS

Compounds	1 Sample	Lab Blank	So	Units	reference recovery(%)
Delta-9 THC	ND	ND	0.001	%	98.0
Delta-9 THC Acid	ND	ND	0.001	%	94.7
Delta-8 THC	ND	ND	0.001	%	101
Delta-8 THC Acid	ND	ND	0.001		
Cannabichromene (CBC)	ND	ND	0.001	%	99.5
Cannabichromene-Acid	ND	ND	0.001	%	98.4
Cannabidiol (CBD)	99.7	ND	0.001	%	98.5
Cannabidiol-Acid	ND	ND	0.001		96.9
Cannabigerol (CBG)	ND	ND	0.001	%	101
Cannabigerol-Acid	ND	ND	0.001		94.1
Cannabicyclol (CBL)	ND	ND	0.001	%	102
Cannabicyclol-Acid	ND	ND	0.001	%	97.4
Cannabidivarin (CBDV)	0.288	ND	0.001	%	98.1
Cannabidivarin-Acid	ND	ND	0.001	%	98.4
Delta-9 THCV	ND	ND	0.001	%	98.1
Delta-9 THCV Acid	ND	ND	0.001	%	98.5
Cannabinol (CBN)	ND	ND	0.001	%	100
Cannabinolic-Acid (CBNA)	ND	ND	0.001	%	94.2

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 up to 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

DBC Wholesale
P.O. Box 27005
Kelowna, BC
V1X 7L7

Date 08 May 19 3:24p
Source Cannabis
Type of Sample Other
No. of Samples 2

Now147225 pg2

TEL: 778-214-6878
dbcwholesaleltd@gmail.com

Comments: arrival temp.: 20.0C
Pd MC Batch 910

Sample: 1) CBD - 1006 01May19 13:21p

ELEMENTS		1 SAMPLE	UNITS	Acceptance Criteria		Dietary Reference		
				Ingestion	Topical	RDA	UL	Units
1) Aluminium	Al	28.7	ug/g					
2) Antimony	Sb	0.097	ug/g	---	5 ug/g			
3) Arsenic	As	<0.010	ug/g	9.80 ug *	3 ug/g			
4) Barium	Ba	0.390	ug/g					
5) Beryllium	Be	<0.003	ug/g					
6) Boron	B	66.3	ug/g			--	20	mg
7) Cadmium	Cd	<0.010	ug/g	6.30 ug *	3 ug/g			
8) Calcium	Ca	698	ug/g			1000	2500	mg
9) Chromium	Cr	0.100	ug/g			35	--	ug
10) Cobalt	Co	<0.020	ug/g					
11) Copper	Cu	0.700	ug/g			900	10000	ug
12) Gold	Au	<0.100	ug/g					
13) Iron	Fe	9.00	ug/g			8	45	mg
14) Lanthanum	La	<0.020	ug/g					
15) Lead	Pb	0.168	ug/g	20.9 ug *	10ug/g			
16) Magnesium	Mg	129	ug/g			400	350	mg
17) Manganese	Mn	2.40	ug/g			2.3	11	mg
18) Mercury	Hg	<0.001	ug/g	20.9 ug *	3 ug/g			
19) Molybdenum	Mo	<0.020	ug/g			45	2000	ug
20) Nickel	Ni	0.100	ug/g			--	1.0	mg
21) Phosphorus	P	60.6	ug/g			700	4000	mg
22) Potassium	K	292	ug/g			4700	--	mg
23) Scandium	Sc	<0.050	ug/g					
24) Selenium	Se	<0.010	ug/g			55	400	ug
25) Silicon	Si	39.7	ug/g			--	ND	
26) Silver	Ag	<0.100	ug/g					
27) Sodium	Na	74.0	ug/g			1500	2300	mg
28) Strontium	Sr	2.00	ug/g					
29) Tin	Sn	0.500	ug/g					
30) Titanium	Ti	0.100	ug/g					
31) Tungsten	W	<0.050	ug/g					
32) Vanadium	V	<0.010	ug/g			--	1.8	mg
33) Zinc	Zn	3.21	ug/g			11	40	mg

RDA = recommended daily allowance

mg = milligrams UL = tolerable upper intake level ug = micrograms (1 ug/Kg=0.001 ug/g)

* based on ug/Kg body weight/day assuming an average 70 kilogram adult

ND = not determined

Food & Nutrition Board, Institute of Medicine, National Academies, 2004

USDA Nutrient database for Std. Reference SR14 Nov 2001.

HC Quality of Natural Health Products Guide. Section 3 Purity. May 2013

Method: Pharmacopoeia Internationalis; USP



R. Bilodeau
Analytical Chemist

H. Hartmann
Sr. Analytical Chemist

Client/Code

DBC Wholesale
P.O. Box 27005
Kelowna, BC
V1X 7L7

Date 08 May 19 3:24p
Source Cannabis
Type of Sample Other
No. of Samples 2

Now 147225 pg3

TEL: 778-214-6878
dbcwholesaleltd@gmail.com

Comments: arrival temp.: 20.0C
Pd MC Batch 910

Sample: 2) HSO - 1001 01 May 19 13:21p

PESTICIDE ANALYSIS SCREEN & TARGET COMPOUNDS -Cannabis

Test Compound Groups*	2	Lab	Units
	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	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

* analysis includes all 96 target compounds on HC Mandatory List Oct 2018

** Trace = presence & identity verified, value below LOQ (Limit of Quantitation)

Reference Standard Recoverys

Azoxystrobin	93.0 %	a-BHC	105 %
Carbofuran	102 %	Pirimicarb	107 %
Malathion	104 %	2,4 DDE	110 %
Mycolobutanil	98.4 %	Cypermethrin	93.1 %
Permethrin	120 %	Chlorpyrifos	99.4 %

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

* analysis includes all 96 target compounds on HC Mandatory List Oct 2018

Notes: Some of the compounds analyzed in this method may be naturally occurring & have biological activity. These compounds may not be regulated.

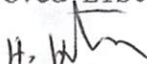
ND = none detected

n/a = not applicable

Acceptance Criteria: none present or are on Health Canada Approved List



R. Bilodeau
Analytical Chemist


H. Hartmann
Sr. Analytical Chemist

Terpene Profile

DBC Wholesale

W147225-2 HS0-1001

Compound Name	mg/g	% of Total	Standard Recovery (%)
a-Pinene	0.00	0.00	88.8
Camphene	0.00	0.00	98.3
Sabinene	0.00	0.00	88.9
B-Pinene	0.00	0.00	86.6
Myrcene	0.00	0.00	94.5
a-Phellandrene	0.01	6.67	88.8
3-Carene	0.00	0.00	88.8
Cymene	0.00	0.00	110
D-Limonene	0.00	0.00	102
Eucalyptol	0.00	0.00	94.5
Ocimene	0.00	0.00	104
Sabinene hydrate	0.00	0.00	89.9
Fenchone	0.00	0.00	90.3
Terpinolene	0.04	21.87	102
Linalol	0.00	0.00	95.8
Fenchol	0.00	0.00	95.8
Camphor	0.00	0.00	99.8
Isopulegol	0.00	0.00	89.9
Isoborneol	0.00	0.00	109
Menthofuran	0.00	0.00	103
Borneol	0.00	0.00	92.5
Menthol	0.00	0.00	93.1
a-Terpineol	0.00	0.00	96.8
Nerol	0.00	0.00	103
Geraniol	0.00	0.00	106
Nerol acetate	0.00	0.00	109
Dihydrojasnone	0.00	0.00	96.8
Cedrene	0.00	0.00	103
Caryophyllene	0.03	14.99	92.7
Humulene	0.02	11.38	92.2
Valencene	0.00	0.00	103
Caryophyllene oxide	0.04	22.56	103
Guaiol	0.00	0.00	90.2
a-Bisabolol	0.04	22.52	106
Total	0.19		

M.B. LABS LTD PO Box 2103 2062 West Henry Ave. Sidney, BC V8L 3S6

T: 250-656-1334 E: mblabs@pacificcoast.net W: www.mblabs.com

R. Bilodeau
Analytical Chemist


H. Hartmann
Sr. Analytical Chemist

Terpene Profile

DBC Wholesale
W147225-2 HS0-1001

