

CERTIFICATE OF ANALYSIS

Address: 219 Apex Street,
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 Telephone: +1-306-986-3934
 License #: LIC-YE98D76B6Q-2020-10

Product Name and Lot Code: Isolate CBD - LFCBD20220824

3rd Party Lab: Innovate Phytoceuticals

Test Date: 220831

Report Date: 220902

Storage Conditions: Maintain in a cool dry environment away from heat, moisture or sunlight.

Analysis	Results	Specification	Method Used
Aerobic Colony Count (cfu/g)	< 10	< 10,000 cfu/g	EP <2.6.13> & EP <2.6.13>
Total Yeast and Mould Count (cfu/g)	< 10	< 100 cfu/g	
Bile Tolerant Gram Negative Bacteria (cfu/g)	< 10	< 100 cfu/g	
Salmonella (Present/Absent)	Absent	Absent in 25 g	
Eschericia coli (cfu/g)	Absent	Absent in 1 g	
Aflatoxin B1 (ng/g)	< 0.3	< 2 ng/g	<USP 561>
Total Aflatoxins (ng/g) (sum of B1, B2, G1, G2)	< 4	< 4 ng/g	
Arsenic (ppm)	< 0.001	≤ 0.2 ppm	USP <232>
Cadmium (ppm)	< 0.001	≤ 0.2 ppm	
Lead (ppm)	0.015	≤ 0.5 ppm	
Mercury (ppm)	0.003	≤ 0.1 ppm	
Pesticides (ug/g)	< Reporting Limits	< Reporting Limits	USP <561>
Residual Heptane (%)	0.1	< 0.5 %	USP <467>
Residual Ethanol (%)	< 0.001		
Residual Isopropanol (%)	< 0.001		
Cannabidiol (CBD) (%)	998	Report Value (mg/g)	USP <621>
Cannabidiolic Acid (CBDA) (%)	< 0.0001	Report Value (mg/g)	
Total Potential CBD (%)	998	Report Value (mg/g)	
Δ9-Tetrahydrocannabinol (THC) (%)	< 0.0001	< 0.01 mg/g	
Tetrahydrocannabinolic Acid (THCA) (%)	< 0.0001	Report Value (mg/g)	
Total Potential THC (%)	< 0.0001	< 0.01 mg/g	

* See PDEV-TW-2023-07 for more information regarding lot code.

Questions? Email bliwiski@blueskyhempventures.com

Blue Sky Hemp Ventures Ltd. Products are manufactured in conformance with Health Canada GPP Requirements.


 Brad Liwiski, QAP


 Date (YYMMDD)

Client: EnCann
 Account No.
 Attn:
 Test Specification: Cannabis Health Canada (HC)
 Client Sample ID: CBD Isolate
 Lot Number: LF-CBD-2022-08-24

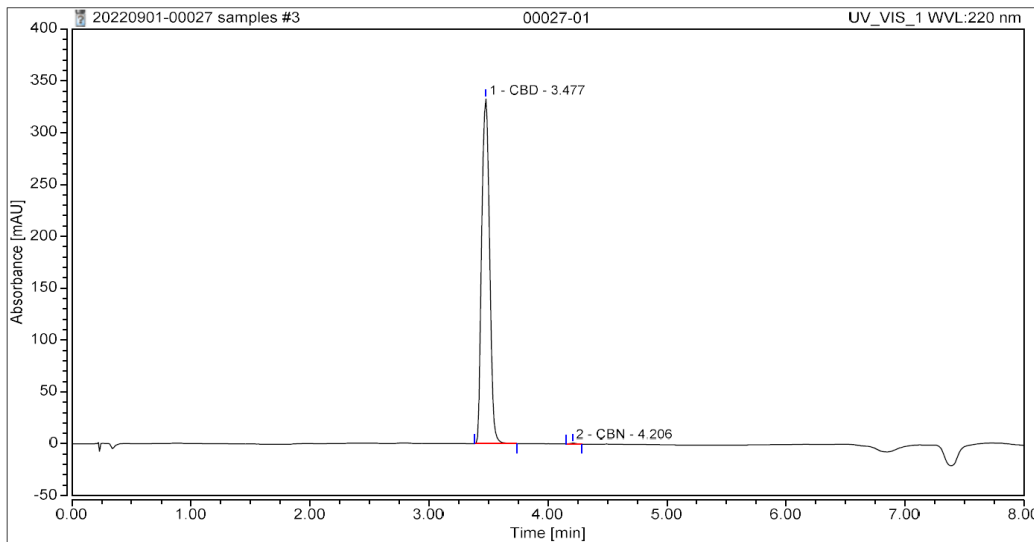
Order No.: 00027
 PO:
 Sample ID: 01
 Sample Matrix: white/off-white powder
 Date Received: 8/31/2022
 Date Completed: 9/2/2022

RESULTS

Cannabinoid profile*	LOQ [ppm]	Results [%]	Method reference
CBD	0.1	99.8	Modified UNODC method based on chromatography principles of USP<621> method. Thermo Fisher UHPLC-DAD-CAD system was used
THC	0.1	<LOQ	
CBN	0.1	0.2	
CBGA	0.1	<LOQ	
CBG	0.1	<LOQ	
CBDA	0.1	<LOQ	
THCA	0.1	<LOQ	

**Calculated as: Total=CBD+0.877CBDA

*Average of 3 repeats



‡ indicates results out of specification.

† ISO 17025 accredited method

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Term Used:

LOQ Limit of Quantification
 <LOQ Below Limit of Quantification
 N/A Not Applicable
 ppm parts per million (µg/g for dry weight)
 ppb parts per billion (ng/g for dry weight)

Results in Red are out of Limits

Results in Green are Confirmed but with Limits



Authorized by: -----

Lukman Sarker, Ph.D
 Lab Director

Report No.- 00027-01
 Client: EnCann
 Attn:

Heavy Metals*	Results [ppb]	LOQ [ppb]	Limits [ppb]**	Method reference
Arsenic	<LOQ	1	2000	Adopted USP<232> and <233> Methods. Meet Health Canada limits. Thermo Fisher ICP-MS system was used.
Cadmium	<LOQ	1	2000	
Mercury	2.65	1	1000	
Lead	14.81	1	5000	

*Average of 3 repeats; ** Limits as per USP 232

Mycotoxins*	Results [ppb]	LOQ [ppb]	Limits [ppb]**	Method reference
Aflatoxin B1	<LOQ	0.3	<5	Adopted method based on USP<561> method. Meet Health Canada limits. ThermoFisher UHPLC-MS system was used.
Aflatoxin B2	<LOQ	1		
Aflatoxin G1	<LOQ	1		
Aflatoxin G2	<LOQ	1		
Sum B1,B2,G1,G2	<LOQ		<20	

*Average of 3 repeats

**USP limits for Aflatoxins: Sum of Aflatoxins B1, B2, G1, G2 must be less than 20ppb.

Residual Solvents*	Results [ppm]	LOQ [ppm]	Limits [ppm]	Method reference
Class 3 RS Analyte				
1-Propanol	<LOQ	10	<5000**	Adopted method based on USP<467> and <731> - Residual Solvent content in water-soluble and water-insoluble pharmaceuticals. Meet Health Canada limits. ThermoFisher GC-FID system was used.
2-Propanol	<LOQ	10	<5000**	
Acetone	<LOQ	10	<5000**	
Ethanol	<LOQ	10	<5000**	
Heptane	995.28	10	<5000**	
Class 2 RS Analyte				
Chloroform	<LOQ	10	<60***	
Methanol	<LOQ	10	<3000***	

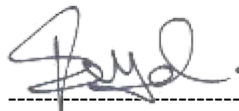
*Average of 2 repeats

** Health Canada limits

*** European pharmacopoeia limits

Pesticides*	Results [ppb]	LOQ [ppb]	Fresh plants HC Limits [ppb]	Dry HC limits [ppb]	Oil HC limits [ppb]	Method reference
Abamectin	<LOQ	10	250	100	250	Adopted method based on USP<561> Method. Meet Health Canada limits. ThermoFisher GC-MS & UHPLC-MS system used.
Acephate	<LOQ	10	50	20	50	
Acequinocyl	<LOQ	10	50	30	N/A	
Acetamiprid	<LOQ	10	50	100	50	
Aldicarb	<LOQ	10	500	1000	500	
Allethrin	<LOQ	50	100	200	100	
Azadirachtin	<LOQ	10	500	1000	500	
Azoxystrobin	<LOQ	1	10	20	10	
Benzovindiflupyr	<LOQ	1	10	20	10	
Bifenazate	<LOQ	1	50	20	10	
Bifenthrin	<LOQ	10	100	1000	N/A	
Boscalid	<LOQ	1	10	20	10	
Buprofezin	<LOQ	10	10	20	N/A	
Carbaryl	<LOQ	10	25	50	25	
Carbofuran	<LOQ	1	10	20	10	
Chlorantraniliprole	<LOQ	10	10	20	N/A	
Chlorphenapyr**	<LOQ	100	100	50	1500	
Chlorpyrifos	<LOQ	10	10	40	500	
Clofentezine	<LOQ	1	10	20	10	
Clothianidin	<LOQ	10	25	50	25	
Coumaphos	<LOQ	1	10	20	10	
Cyantraniliprole	<LOQ	1	10	20	10	
Cyfluthrin**	<LOQ	500	1000	200	N/A	
Cypermethrin**	<LOQ	100	1000	300	N/A	
Cyprodinil	<LOQ	1	250	250	10	
Daminozide	<LOQ	10	50	100	N/A	
Deltamethrin	<LOQ	10	1000	500	N/A	
Diazinon	<LOQ	10	10	20	N/A	
Dichlorvos	<LOQ	10	50	100	50	
Dimethoate	<LOQ	1	10	20	10	
Dimethomorph	<LOQ	1	50	50	N/A	
Dinotefuran	<LOQ	10	50	100	50	
Dodemorph	<LOQ	10	50	50	N/A	
Endosulfan sulfate**	<LOQ	100	500	50	2500	
Endosulfan-alpha**	<LOQ	100	100	200	2500	
Endosulfan-beta**	<LOQ	100	500	50	2500	
Ethoprophos	<LOQ	1	10	20	10	
Etofenprox	<LOQ	10	10	50	N/A	

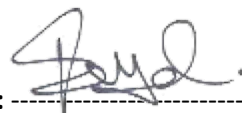
Pesticides	Results [ppb]	LOQ [ppb]	Fresh plants HC Limits [ppb]	Dry HC limits [ppb]	Oil HC limits [ppb]	Method reference
Etoxazole	<LOQ	10	10	20	N/A	Adopted method based on USP<561>
Etridiazole**	<LOQ	10	10	30	150	
Fenoxycarb	<LOQ	1	10	20	10	Method. Meet Health Canada limits.
Fenpyroximate	<LOQ	10	20	20	N/A	
Fensulfothion	<LOQ	1	10	20	10	ThermoFisher GC-MS & UHPLC-MS system used.
Fenthion	<LOQ	1	10	20	10	
Fenvalerate	<LOQ	10	100	100	N/A	
Fipronil	<LOQ	1	10	60	10	
Flonicamid	<LOQ	10	25	50	25	
Fludioxonil	<LOQ	1	10	20	10	
Fluopyram	<LOQ	1	10	20	10	
Hexythiazox	<LOQ	10	10	10	N/A	
Imazalil	<LOQ	1	10	50	10	
Imidacloprid	<LOQ	1	10	20	10	
Iprodione	<LOQ	10	500	1000	500	
Kinoprene**	<LOQ	50	50	500	1250	
Kresoxim-methyl	<LOQ	10	10	20	150	
Malathion	<LOQ	1	10	20	10	
Metalaxyl	<LOQ	1	10	20	10	
Methiocarb	<LOQ	1	10	20	10	
Methomyl	<LOQ	1	50	50	25	
Methoprene	<LOQ	50	1000	2000	N/A	
Mevinphos	<LOQ	10	25	50	25	
MGK-264**	<LOQ	50	50	50	N/A	
Myclobutanil	<LOQ	1	10	20	10	
Naled	<LOQ	10	200	100	N/A	
Novaluron	<LOQ	10	25	50	25	
Oxamyl	<LOQ	10	1500	3000	1500	
Paclobutrazol	<LOQ	1	10	20	10	
Parathion-methyl**	<LOQ	100	30	50	N/A	
Permethrin	<LOQ	1	500	500	N/A	
Phenothrin	<LOQ	1	25	50	N/A	
Phosmet	<LOQ	10	10	20	N/A	
Piperonyl butoxide	<LOQ	10	250	200	1250	
Pirimicarb	<LOQ	1	10	20	10	
Prallethrin	<LOQ	10	50	50	N/A	
Propiconazole	<LOQ	10	10	100	N/A	
Propoxur	<LOQ	1	10	20	10	



Pesticides	Results [ppb]	LOQ [ppb]	Fresh plants HC Limits [ppb]	Dry HC limits [ppb]	Oil HC limits [ppb]	Method reference
Pyraclostrobin	<LOQ	1	10	20	10	Adopted method based on USP<561>
Pyrethrins	<LOQ	10	25	50	N/A	
Pyridaben	<LOQ	1	25	50	20	Method. Meet Health Canada limits.
Quintozene**	<LOQ	10	10	20	N/A	
Resmethrin	<LOQ	10	20	100	50	ThermoFisher GC-MS & UHPLC-MS system used.
Spinetoram	<LOQ	1	10	20	10	
Spinosad	<LOQ	1	10	100	10	
Spirodiclofen	<LOQ	10	250	250	N/A	
Spiromesifen	<LOQ	10	50	3000	N/A	
Spirotetramat	<LOQ	1	100	20	10	
Spiroxamine	<LOQ	10	10	100	N/A	
Tebuconazole	<LOQ	1	10	50	10	
Tebufenozide	<LOQ	1	10	20	10	
Teflubenzuron	<LOQ	10	25	50	25	
Tetrachlorvinphos	<LOQ	1	10	20	10	
Tetramethrin	<LOQ	10	50	100	N/A	
Thiacloprid	<LOQ	1	10	20	10	
Thiamethoxam	<LOQ	1	10	20	10	
Thiophanate-methyl	<LOQ	10	30	50	N/A	
Trifloxystrobin	<LOQ	1	10	20	10	

**Detectable only by GC-MS

Authorized by: _____



Lukman Sarker, Ph.D
 Lab Director

Client: EnCann Solutions Inc.
Sample Name: CBD Isolate Micro #2
Sample Matrix: Isolate
Lot No: LF-CBD-2022-08-24

Order-Sample No: 00090-01
Date Received: 30-Jan-23
Date Reported: 6-Feb-23

SUMMARY

Microbials

Within Limit

Legend:

LOQ Limit of Quantification
<LOQ Below Limit of Quantification
ppm Parts Per Million ($\mu\text{g/g}$ for dry weight)
ppb Parts Per Billion (ng/g for dry weight)

¥ indicates results outside of limit.

† ISO 17025 accredited method

Results in **RED** are outside of limit

Results in **GREEN** are within limit

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Dr. Lukman Sarker, Lab Director

Client: EnCann Solutions Inc.
 Sample Name: CBD Isolate Micro #2
 Sample Matrix: Isolate
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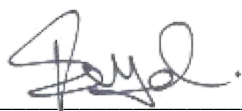
MICROBIAL ANALYSIS

Microbial Assays	Results [CFU/g]	Limits [CFU/g or, CFU/ml]
Total Aerobic Plate Count	<10	<10,000
Total Yeast and Mold Count	<10	<1,00
Bile Tolerant Gram (-) Bacteria	<10	<1,00
<i>E. coli</i>	Absent in 1g	Absence in 1g / 1mL
<i>Salmonella spp.</i>	Absent in 25g	Absence in 25g / 25mL
<i>S. aureus</i>	Absent in 1g	Absence in 1g / 1mL
<i>P. aeruginosa</i>	Absent in 1g	Absence in 1g / 1mL

Adopted method based on EP <2.6.12> and <2.6.13>

Specification limits adopted based on EP <5.1.4> and <5.1.8-Table:B>

Authorized by:



Dr. Lukman Sarker, Lab Director