CERTIFICATE OF ANALYSIS

Address: 219 Apex Street,
Saskatoon, SK
S7R 1C3, Canada

Website: www.blueskyhempventures.com
Telephone: +1-306-986-3934
License #: LIC-YE98D76B6Q-2020

Product Name and ID: Isolate CBD - ISL21026CBD02

Packaged Date: N/A

Test Date: 211122

3rd Party Lab: Valens Labs

Report Date: 211124

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

Analysis	Results	Specification	Method Used
Aerobic Colony Count (cfu/g)	< 10	≤ 50,000 cfu/g	L-025-02
Total Yeast and Mould Count (cfu/g)	< 10	≤ 500 cfu/g	L-025-02
Bile Tolerant Gram Negative Bacteria (cfu/g)	< 10	≤ 100 cfu/g	L-025-02
Salmonella (Present/Absent)	Absent	Absent in 25 g	L-019-05
Eschericia coli (cfu/g)	Absent	Absent in 1g	L-019-05
Aflatoxin B1 (ng/g)	< 0.5	< 2 ng/g	L-018-03
Total Aflatoxins (ng/g) (sum of B1, B2, G1, G2)	< 4.0	< 4 ng/g	L-018-03
Arsenic (ppm)	< 0.06	≤ 0.2 ppm	L-003-06
Cadmium (ppm)	< 0.06	≤ 0.2 ppm	L-003-06
Lead (ppm)	< 0.06	≤ 0.5 ppm	L-003-06
Mercury (ppm)	< 0.06	≤ 0.1 ppm	L-003-06
Pesticides (ug/g)	< Reporting Limits	< Reporting Limits	L-015-02
Residual Pentane (%)	0.06	< 0.5 %	L-029-01
Cannabidiol (CBD) (%)	99.49	Report Value (%)	L-026-01
Δ9-Tetrahydrocannabinol (THC) (%)	0.042	Report Value (%)	L-026-01
Tetrahydrocannbinolic Acid (THCA) (%)	< 0.001	Report Value (%)	L-026-01
Total Potential THC (%)	0.042	Report Value (%)	L-026-01

Questions? Email bliwiski@blueskyhempventures.com

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

Brad Liwiski, QAP

211130

Date (YYMMDD)

Certificate of Analysis

VALENS LABS

Blue Sky Hemp Ventures
Saskatoon, SK S7R 1C3
Canada
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Valens Labs
230 Carion Rd
Kelowna British Columbia
Canada
V4V 2K5

CALA Testing Accreditation No. A4106

Lab Sample ID	HEM-21112212-01	**Date Received**	2021-11-22
Client SID	ISL21026CBD02	**Date Published**	2021-11-24
Sample Type	Isolate - Hemp		

Methods Summary

Cannabinoid Profile L-041	L-041-00 Trace Analysis of THC Content in CBD Isolates by HPLC-DAD. In house method developed using solvent extraction and analysis with HPLC-DAD. Total Potential THC= THC + 0.877*THCA, Total Potential CBD= CBD + 0.877*CBDA
Microbials L-019	L-019-05 Analysis of Microbes in Cannabis by qPCR. Eu. Ph. 5.1.6, 2.6.12, 2.6.13 and 2.6.31 with limits as per Eu. Ph. 5.1.8. E. coli is present/absent in 1 g or 1 mL. Pseudomonas aeruginosa is present/absent in 1 g or 1 mL. Salmonella is present/absent in 25 g or 25 mL. Staphylococcus aureus is present/absent in 1 g or 1 mL.
Microbials L-025	L-025-02 Analysis of Microbes in Cannabis by Plating. Eu. Ph. 5.1.6, 2.6.12, 2.6.13 and 2.6.31 with limits as per Eu. Ph. 5.1.8.
Mycotoxins	L-018-03 Determination of Mycotoxins in Cannabis by LC-MS/MS. In house method developed utilizing interference removal cartridges. Limits as per Eu. Ph. 2.8.18 and 2.8.22. Sum of Alfatoxin B1, B2, G1 and G2 must be less than 4 ng/g. Ochratoxin A must be less than 20 ng/g.
Metals	L-003-06 Determination of Heavy Metals in Cannabis by ICP-MS. Limits as per ICH Q3D limits for Inhalation Products.
Residual Solvents	L-029-01 Determination of Residual Solvents in Cannabis and Hemp Products by GC-MS/MS. Modified from USP 467 using analysis with GC-MS/MS. Limits established by Health Canada.
Pesticides	L-015-02 Determination of Pesticides in Cannabis by LC-MS/MS and GC-MS/MS. In house method developed utilizing QuEChERS cleanup modified from EN 15662. Limits established by Health Canada. * Health Canada limit under review.
Moisture Content	L-021-00 In house method using a Mettler Toledo HE53 Halogen Moisture Analyzer
Cannabinoid Profile L-026	L-026-01 Quantification of Cannabinoids in Isolate Samples by HLPC-DAD. In house method developed using solvent extraction and analysis with HPLC-DAD. Total Potential THC= THC + 0.877*THCA, Total Potential CBD= CBD + 0.877*CBDA

When both CBD and CBDA are <LOQ, the Total CBD reports as <LOQ
When both delta9 THC and THCA are <LOQ, the Total THC reports as <LOQ
‡ Indicates result out of specification

Responsibilities:
Houssain El Aribi, Ph.D.
Director, Valens Labs

Published By:
Aaron Wylie
Lab Analyst, Valens Labs

Results

Cannabinoid Profile - Date Analyzed 2021-11-24		mg/g	
Analyte	LOQ	Results	
Total Potential THC	N/A	0.4185	
Cannabidiol (CBD)	0.0100	994.9441	
Delta9-Tetrahydrocannabinol (delta9THC)	0.0100	0.4185	
Tetrahydrocannabinolic Acid (THCA)	0.0100	<LOQ	

Microbials - Date Analyzed 2021-11-24		CFU/g	
Analyte	LOQ	Results	Limits
Bile Tolerant Gram-Negative	10	<LOQ	100
E.coli	N/A	Absent	
Salmonella	N/A	Absent	
Total Aerobic Count	10	<LOQ	50000
Total Yeast and Mould Count	10	<LOQ	500

Mycotoxins - Date Analyzed 2021-11-24		ppb (ng/g)	
Analyte	LOQ	Results	Limits
Aflatoxin B1	0.5	<LOQ	2.0
Aflatoxin B2	1.0	<LOQ	
Aflatoxin G1	1.0	<LOQ	
Aflatoxin G2	1.0	<LOQ	
Total Aflatoxins	N/A	<LOQ	4.0

Heavy Metals - Date Analyzed 2021-11-24		ppm (µg/g)	
Analyte	LOQ	Results	Limits
Arsenic	0.06	<LOQ	0.20
Cadmium	0.06	<LOQ	0.30
Lead	0.06	<LOQ	0.50
Mercury	0.06	<LOQ	0.10

Residual Solvents - Date Analyzed 2021-11-23		ppm (µg/g)	
Analyte	LOQ	Results	Limits
Quantified			
Pentane	100.0	647.5	5000.0
Not Quantifiable			
1-Butanol	100.0	<LOQ	5000.0
1-Pentanol	500.0	<LOQ	5000.0
1-Propanol	100.0	<LOQ	5000.0
2-Butanol	100.0	<LOQ	5000.0

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Lab Analyst, Valens Labs

Residual Solvents - Date Analyzed 2021-11-23		ppm (µg/g)	
Analyte	LOQ	Results	Limits
2-Butanone	100.0	<LOQ	5000.0
2-Methyl-1-Propanol	500.0	<LOQ	5000.0
2-Propanol	500.0	<LOQ	5000.0
3-Methyl-1-Butanol	500.0	<LOQ	5000.0
4-Methyl-2-Pentanone	100.0	<LOQ	5000.0
Acetone	100.0	<LOQ	5000.0
Anisole	100.0	<LOQ	5000.0
Butyl Acetate	100.0	<LOQ	5000.0
Diethyl Ether	100.0	<LOQ	5000.0
Ethanol	100.0	<LOQ	5000.0
Ethyl Acetate	100.0	<LOQ	5000.0
Ethyl Formate	100.0	<LOQ	5000.0
Heptane	100.0	<LOQ	5000.0
i-Butane	100.0	<LOQ	5000.0
Isobutyl Acetate	100.0	<LOQ	5000.0
Isopropyl Acetate	100.0	<LOQ	5000.0
Methyl Acetate	100.0	<LOQ	5000.0
n-Butane	100.0	<LOQ	5000.0
Propane	100.0	<LOQ	5000.0
Propyl Acetate	100.0	<LOQ	5000.0
Tert-Butylmethyl Ether	100.0	<LOQ	5000.0

Pesticides - Date Analyzed 2021-11-24		ppm (µg/g)	
Analyte	LOQ	Results	Limits
Not Quantifiable			
Abamectin	0.100	<LOQ	0.250
Acephate	0.010	<LOQ	0.050
Acequinocyl	0.025	<LOQ	*
Acetamiprid	0.010	<LOQ	0.050
Aldicarb	0.050	<LOQ	0.500
Allethrin	0.100	<LOQ	0.100
Azadirachtin	0.100	<LOQ	0.500
Azoxystrobin	0.010	<LOQ	0.010
Benzovindiflupyr	0.010	<LOQ	0.010
Bifenazate	0.010	<LOQ	0.010
Bifenthrin	0.010	<LOQ	*
Boscalid	0.010	<LOQ	*
Buprofezin	0.010	<LOQ	*
Carbaryl	0.010	<LOQ	0.025
Carbofuran	0.010	<LOQ	0.010
Chlorantraniliprole	0.010	<LOQ	*
Chlorphenapyr	0.010	<LOQ	1.500
Chlorpyrifos	0.010	<LOQ	0.500
Clofentezine	0.010	<LOQ	0.010

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Pesticides - Date Analyzed 2021-11-24		ppm (µg/g)	
Analyte	LOQ	Results	Limits
Clothianidin	0.010	<LOQ	0.025
Coumaphos	0.010	<LOQ	0.010
Cyantraniliprole	0.010	<LOQ	0.010
Cyfluthrin	0.100	<LOQ	*
Cypermethrin	0.100	<LOQ	*
Cyprodinil	0.010	<LOQ	0.010
Daminozide	0.100	<LOQ	*
Deltamethrin	0.025	<LOQ	*
Diazinon	0.010	<LOQ	*
Dichlorvos	0.010	<LOQ	0.050
Dimethoate	0.010	<LOQ	0.010
Dimethomorph(s)	0.010	<LOQ	*
Dinotefuran	0.010	<LOQ	0.050
Dodemorph	0.010	<LOQ	*
Endosulfan Sulfate	0.025	<LOQ	2.500
Endosulfan-alpha	0.025	<LOQ	2.500
Endosulfan-beta	0.025	<LOQ	2.500
Ethoprofos	0.010	<LOQ	0.010
Etofenprox	0.010	<LOQ	*
Etoxazole	0.010	<LOQ	*
Etridiazole	0.010	<LOQ	0.150
Fenoxycarb	0.010	<LOQ	0.010
Fenpyroximate	0.010	<LOQ	*
Fensulfothion	0.010	<LOQ	0.010
Fenthion	0.010	<LOQ	0.010
Fenvalerate	0.010	<LOQ	*
Fipronil	0.010	<LOQ	0.010
Flonicamid	0.010	<LOQ	0.025
Fludioxonil	0.010	<LOQ	0.010
Fluopyram	0.010	<LOQ	0.010
Hexythiazox	0.010	<LOQ	*
Imazalil	0.010	<LOQ	0.010
Imidacloprid	0.010	<LOQ	0.010
Iprodione	0.010	<LOQ	0.500
Kinoprene	0.200	<LOQ	1.250
Kresoxim-methyl	0.010	<LOQ	0.150
Malathion	0.010	<LOQ	0.010
Metalaxyl	0.010	<LOQ	0.010
Methiocarb	0.010	<LOQ	0.010
Methomyl	0.010	<LOQ	0.025
Methoprene	0.200	<LOQ	*
Mevinphos	0.010	<LOQ	0.025
MGK-264	0.050	<LOQ	*
Myclobutanil	0.010	<LOQ	0.010
Naled	0.010	<LOQ	*

Pesticides - Date Analyzed 2021-11-24		ppm (µg/g)	
Analyte	LOQ	Results	Limits
Novaluron	0.010	<LOQ	0.025
Oxamyl	0.010	<LOQ	1.500
Paclobutrazol	0.010	<LOQ	0.010
Parathion Methyl	0.010	<LOQ	*
Permethrin(s)	0.025	<LOQ	*
Phenothrin	0.010	<LOQ	*
Phosmet	0.010	<LOQ	*
Piperonyl butoxide	0.010	<LOQ	1.250
Pirimicarb	0.010	<LOQ	0.010
Prallethrin	0.050	<LOQ	*
Propiconazole(s)	0.010	<LOQ	*
Propoxur	0.010	<LOQ	0.010
Pyraclostrobin	0.010	<LOQ	0.010
Pyrethrins	0.050	<LOQ	*
Pyridaben	0.010	<LOQ	0.020
Quintozene	0.010	<LOQ	*
Resmethrin	0.010	<LOQ	0.050
Spinetoram	0.010	<LOQ	0.010
Spinosad (A+D)	0.010	<LOQ	0.010
Spirodiclofen	0.010	<LOQ	*
Spiromesifen	0.010	<LOQ	*
Spirotetramat	0.010	<LOQ	0.010
Spiroxamine	0.010	<LOQ	*
Tebuconazole	0.010	<LOQ	0.010
Tebufenozide	0.010	<LOQ	0.010
Teflubenzuron	0.025	<LOQ	0.025
Tetramethrin	0.025	<LOQ	*
Tetreachlorvinphos	0.010	<LOQ	0.010
Thiacloprid	0.010	<LOQ	0.010
Thiamethoxam	0.010	<LOQ	0.010
Thiophanate-methyl	0.010	<LOQ	*
Trifloxystrobin	0.010	<LOQ	0.010

Water Content - Date Analyzed 2021-11-24	Water content %
Analyte	Results
Moisture Content	0.00

Responsibilities:

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