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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
Tetrahydrocannabinolic 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


 Date (YYMMDD)

Certificate of Analysis



Blue Sky Hemp Ventures
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Valens Labs
230 Carion Rd
Kelowna British Columbia
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CALA
Testing
Accreditation No. A4106

Lab Sample ID HEM-21112212-01
Client SID ISL21026CBD02
Sample Type Isolate - Hemp

Date Received 2021-11-22
Date Published 2021-11-24

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

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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
<i>E.coli</i>	N/A	Absent	
<i>Salmonella</i>	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
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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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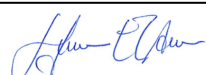
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Lab Analyst, Valens Labs

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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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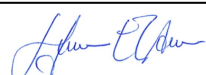
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Lab Analyst, Valens Labs

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
Fonicamid	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	*

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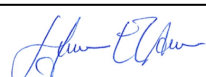
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Pesticides - Date Analyzed 2021-11-24		ppm (µg/g)		
Analyte	LOQ	Results	Limits	
Novaluron	0.010	<LOQ	0.025	
Oxamyl	0.010	<LOQ	1.500	
Paclobutrazol	0.010	<LOQ	0.010	
Parathion Methyl	0.010	<LOQ	*	
Permethrin(s)	0.025	<LOQ	*	
Phenothrin	0.010	<LOQ	*	
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	*	
Tetraachlorvinphos	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	

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