



## CERTIFICATE OF COMPLIANCE

**Product:** Lemon 4:1 (2mg THC, 8mg CBD per unit)

**Product Brand:** Care by Design

**Lot:** PG230124007

**Packaging date:** January 31, 2023

**Manufactured by:** Loosh Inc.

**Address:** 160 Steeprock Dr. M3J 2T4, North York, ON

### Input Cannabinoids ingredients

Ingredient name	Lot Number
THC distillate	DI10009022462
CBD Distillate	ISL21025CBD02

Loosh Inc. certifies that product - **Care by Design Lemon 4:1 lot # PG230124007** produced at Loosh Inc. facility using the Cannabinoids with lot # listed in the table above.

Loosh Inc. is cannabis licensed processing facility with License No. LIC-Z651PJ5EEN-2021-4 and complies with Cannabis regulations.

QAP: Starry Hundal

Date: Jan 31, 2023



Client Name: Loosh Inc.  
 Address: 160 Steeprock Drive, North York, Ontario  
 Contact/Attn. Starry Hundal & Donald Bowin  
 Email: shundal@looshbrands.com

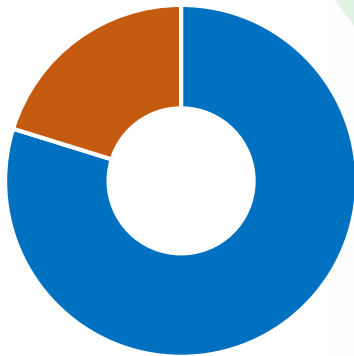
### Sample Information

<b>Sample Type:</b> Gummies	<b>Sigma ID:</b> 20230125-LI-26
<b>Client ID:</b> Care By Design Lemon 4:1	<b>Date Received:</b> 25-Jan-23
<b>Lot #:</b> PG230124007	<b>Test Date:</b> 26-Jan-23
<b>Certificate #:</b> 20230130-LI-0131	<b>Certificate Issue Date:</b> 30-Jan-23

### Cannabinoid Profile

Instrument: HPLC-PDA Method: TP-001

4 Major Cannabinoids



- CBD
- CBDA
- Δ9-THC
- THCA

Compound	Results (mg/g)	Results (%)
CBD	1.9639	0.1964
CBDA	Not Detected	Not Detected
Δ9-THC	0.4973	0.0497
THCA	Not Detected	Not Detected

#### Total Cannabinoids

Total CBD	1.9639	0.1964
Total THC	0.4973	0.0497

#### Notes

N/A

*Starry*

APPROVED- QAP

### Final Approval

Approved by: Bahareh Ahmadkhan  
 Quality Assurance Manager

Date Approved: January 30, 2023



Client Name: Loosh Inc.  
Address: 160 Steeprock Drive, North York, Ontario  
Contact/Attn. Starry Hundal & Donald Bov  
Email: shundal@looshbrands.com

### Sample Information

<b>Sample Type</b>	Gummies	<b>Sigma ID:</b>	20230125-LI-27
<b>Client ID:</b>	Care By Design Lemon 4:1	<b>Date Received:</b>	25-Jan-23
<b>Lot #:</b>	PG230124007	<b>Test Date:</b>	27-Jan-23
<b>Certificate #:</b>	20230130-LI-0132	<b>Certificate Issue Date:</b>	30-Jan-23

### Microbial Contamination

Instrument: qPCR Method: TP-008

Contamination	Client Specification	Results	Pass/Fail
TAC	NMT 1000 cfu/g	Not Detected	Pass
TYMC	NMT 100 cfu/g	Not Detected	Pass
E.coli	Absent in 1 g	Absent in 1 g	Pass
Salmonella	Absent in 10 g	Absent in 10 g	Pass
Coliform	NMT 100 cfu/g	Not Detected	Pass

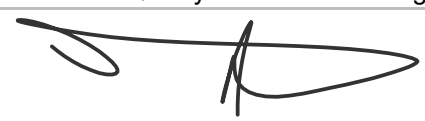
### Notes

N/A

  
APPROVED- QAP

### Final Approval

Approved by: Bahareh Ahmadkhan  
Quality Assurance Manager



Date Approved: January 30, 2023

REPORT NO.  
C22242-92037

ACCOUNT NUMBER  
02270

# A & L Canada Laboratories Inc.

2136 Jetstream Road, London, ON, N5V 3P5 Tel: (519) 457-2575 Fax: (519) 457-2664



TO: MOTIF LABS LTD.  
516 JOHN ST. N.  
AYLMER, ON N5H 2B8  
CANADA  
hereinafter the "Recipient"

ATTN: Nav Sidhu  
Phone: 519-272-3363

## CERTIFICATE OF ANALYSIS

PAGE: 1 / 6

CATEGORY: Potency

SAMPLE MATRIX: Cannabis  
Concentrate

PO#: Nav Sidhu

DATE SAMPLED: 2022-08-29

LAB NUMBER: 2429280

DATE RECEIVED: 2022-08-30

SAMPLE ID: DI10009022462 - DISTILLATE

DATE REPORTED: 2022-09-06

STRAIN: DI10009022462 - Distillate

DATE PRINTED: 2022-09-07

Cannabinoid Profile	RESULT		LOQ		METHOD REFERENCE
	% w/w	mg/g	% w/w	mg/g	
CBC	0.96	9.6	0.25	2.5	ORG-M-071
CBCA	<LOQ	<LOQ	1.65	16.5	ORG-M-071
CBD	0.29	2.9	0.25	2.5	ORG-M-071
CBDA	<LOQ	<LOQ	0.25	2.5	ORG-M-071
CBDV	<LOQ	<LOQ	0.25	2.5	ORG-M-071
CBDVA	<LOQ	<LOQ	0.25	2.5	ORG-M-071
CBG	1.55	15.5	0.25	2.5	ORG-M-071
CBGA	<LOQ	<LOQ	0.25	2.5	ORG-M-071
CBL	<LOQ	<LOQ	0.25	2.5	ORG-M-071
CBN	2.17	21.7	0.25	2.5	ORG-M-071
CBNA	<LOQ	<LOQ	0.25	2.5	ORG-M-071
Delta 8-THC	<LOQ	<LOQ	0.25	2.5	ORG-M-071
THC	90.44	904.4	0.25	2.5	ORG-M-071
THCA	<LOQ	<LOQ	0.25	2.5	ORG-M-071
THCV	0.53	5.3	0.25	2.5	ORG-M-071
THCVA	<LOQ	<LOQ	0.25	2.5	ORG-M-071
Total CBD	0.29	2.9	0.25	2.5	ORG-M-071
Total THC	90.44	904.4	0.25	2.5	ORG-M-071

LOQ - Limit of Quantification

The results of this report relate to the sample submitted and analyzed. All results are released based on acceptable QC data.



C22242-92037

Results Authorized By:

Haifeng Song, Ph.D., C.Chem.  
Lab Director

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# A & L Canada Laboratories Inc.



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02270

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TO: MOTIF LABS LTD.  
516 JOHN ST. N.  
AYLMER, ON N5H 2B8  
CANADA  
hereinafter the "Recipient"

ATTN: Nav Sidhu  
Phone: 519-272-3363

## CERTIFICATE OF ANALYSIS

PAGE: 2 / 6

CATEGORY: Contamination

SAMPLE MATRIX: Cannabis  
Concentrate

PO#: Nav Sidhu

DATE SAMPLED: 2022-08-29

LAB NUMBER: 2429280

DATE RECEIVED: 2022-08-30

SAMPLE ID: DI10009022462 - DISTILLATE

DATE REPORTED: 2022-09-06

STRAIN: DI10009022462 - Distillate

DATE PRINTED: 2022-09-07

Regulated Heavy Metals	RESULT	UNIT	LOQ	METHOD REFERENCE
Arsenic (As)	<LOQ	ppm	0.1	USP 233/EP 2.4.20
Cadmium (Cd)	<LOQ	ppm	0.1	USP 233/EP 2.4.20
Lead (Pb)	<LOQ	ppm	0.25	USP 233/EP 2.4.20
Mercury (Hg)	<LOQ	ppm	0.05	USP 233/EP 2.4.20
Aflatoxins	RESULT	UNIT	LOQ	METHOD REFERENCE
Aflatoxin B1	<LOQ	ppb	1	ORG-M-069
Aflatoxin B2	<LOQ	ppb	1	ORG-M-069
Aflatoxin G1	<LOQ	ppb	1	ORG-M-069
Aflatoxin G2	<LOQ	ppb	1	ORG-M-069
Ochratoxin A	<LOQ	ppb	10	ORG-M-069
Total Aflatoxins	<LOQ	ppb	4	ORG-M-069
Microbiological Scan	RESULT	UNIT	LOQ	METHOD REFERENCE
Bile-Tolerant Gram Negative Bacteria	Negative	P-A/g	1	USP62/EP2.6.13
E. coli	Negative	P-A/g(ml)	1	USP62/EP2.6.13
Pseudomonas aeruginosa	Negative	P-A/g	1	USP62/EP2.6.13
Salmonella spp.	Negative	P-A/10.0g	1 CFU	USP62/EP2.6.13
Staphylococcus aureus	Negative	P-A/g	1	USP62/EP2.6.13
Total Aerobic Microbial Count	<100	CFU/g	100	USP61/EP2.6.12
Total Yeasts & Moulds	<10	CFU/g	10	USP61/EP2.6.12
Residual Solvents	RESULT	UNIT	LOQ	METHOD REFERENCE
Ethanol	<LOQ	ppm	100	ORG-M-074
Visual Inspection	RESULT	AMOUNT INSPECTED (g)	METHOD REFERENCE	
Foreign Matter	None Detected	10	USP 561/EP 2.8.2	

LOQ - Limit of Quantification

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Results Authorized By:



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Lab Director

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CANADA  
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ATTN: Nav Sidhu  
Phone: 519-272-3363

## CERTIFICATE OF ANALYSIS

PAGE: 3 / 6

CATEGORY: Pesticides

SAMPLE MATRIX: Cannabis  
Concentrate

PO#: Nav Sidhu

DATE SAMPLED: 2022-08-29

LAB NUMBER: 2429280

DATE RECEIVED: 2022-08-30

SAMPLE ID: DI10009022462 - DISTILLATE

DATE REPORTED: 2022-09-06

STRAIN: DI10009022462 - Distillate

DATE PRINTED: 2022-09-07

Pesticide Scan	RESULT	UNIT	LOQ	HEALTH CANADA REPORTING LIMIT	METHOD REFERENCE
Abamectin	<LOQ	ppm	0.01	0.25	ORG-M-052
Acephate	<LOQ	ppm	0.01	0.05	ORG-M-052
Acequinocyl	<LOQ	ppm	0.01	0.05	ORG-M-052
Acetamiprid	<LOQ	ppm	0.01	0.1	ORG-M-052
Aldicarb	<LOQ	ppm	0.01	1	ORG-M-052
Allethrin	<LOQ	ppm	0.01	0.2	ORG-M-052
Azadirachtin	<LOQ	ppm	0.05	1	ORG-M-052
Azoxystrobin	<LOQ	ppm	0.01	0.02	ORG-M-052
Benzovindiflupyr	<LOQ	ppm	0.01	0.02	ORG-M-052
Bifenazate	<LOQ	ppm	0.01	0.05	ORG-M-052
Bifenthrin	<LOQ	ppm	0.01	1	ORG-M-052
Boscalid	<LOQ	ppm	0.01	0.02	ORG-M-052
Buprofezin	<LOQ	ppm	0.01	0.02	ORG-M-052
Carbaryl	<LOQ	ppm	0.01	0.05	ORG-M-052
Carbofuran	<LOQ	ppm	0.01	0.02	ORG-M-052
Chlorantraniliprole	<LOQ	ppm	0.01	0.02	ORG-M-052
Chlorphenapyr	<LOQ	ppm	0.05	1.5	ORG-M-052
Chlorpyrifos	<LOQ	ppm	0.01	0.5	ORG-M-052
Clofentezine	<LOQ	ppm	0.01	0.02	ORG-M-052
Clothianidin	<LOQ	ppm	0.01	0.05	ORG-M-052
Coumaphos	<LOQ	ppm	0.01	0.02	ORG-M-052
Cyantraniliprole	<LOQ	ppm	0.01	0.02	ORG-M-052
Cyfluthrin	<LOQ	ppm	0.5	1	ORG-M-052
Cypermethrin	<LOQ	ppm	0.5	1	ORG-M-052
Cyprodinil	<LOQ	ppm	0.01	0.25	ORG-M-052

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## CERTIFICATE OF ANALYSIS

PAGE: 4 / 6

CATEGORY: Pesticides

SAMPLE MATRIX: Cannabis  
Concentrate

PO#: Nav Sidhu

DATE SAMPLED: 2022-08-29

LAB NUMBER: 2429280

DATE RECEIVED: 2022-08-30

SAMPLE ID: DI10009022462 - DISTILLATE

DATE REPORTED: 2022-09-06

STRAIN: DI10009022462 - Distillate

DATE PRINTED: 2022-09-07

Pesticide Scan	RESULT	UNIT	LOQ	HEALTH CANADA REPORTING LIMIT	METHOD REFERENCE
Daminozide	<LOQ	ppm	0.01	0.1	ORG-M-052
Deltamethrin	<LOQ	ppm	0.05	1	ORG-M-052
Diazinon	<LOQ	ppm	0.01	0.02	ORG-M-052
Dichlorvos	<LOQ	ppm	0.02	0.1	ORG-M-052
Dimethoate	<LOQ	ppm	0.01	0.02	ORG-M-052
Dimethomorph	<LOQ	ppm	0.05	0.05	ORG-M-052
Dinotefuran	<LOQ	ppm	0.01	0.1	ORG-M-052
Dodemorph	<LOQ	ppm	0.01	0.05	ORG-M-052
Endosulfan sulfate	<LOQ	ppm	0.05	2.5	ORG-M-052
Endosulfan-alpha	<LOQ	ppm	0.05	2.5	ORG-M-052
Endosulfan-beta	<LOQ	ppm	0.05	2.5	ORG-M-052
Ethoprophos	<LOQ	ppm	0.01	0.02	ORG-M-052
Etofenprox	<LOQ	ppm	0.05	0.05	ORG-M-052
Etoxazole	<LOQ	ppm	0.01	0.02	ORG-M-052
Etridiazole	<LOQ	ppm	0.05	0.15	ORG-M-052
Fenoxycarb	<LOQ	ppm	0.01	0.02	ORG-M-052
Fenpyroximate	<LOQ	ppm	0.01	0.02	ORG-M-052
Fensulfthion	<LOQ	ppm	0.01	0.02	ORG-M-052
Fenthion	<LOQ	ppm	0.01	0.02	ORG-M-052
Fenvalerate	<LOQ	ppm	0.05	0.1	ORG-M-052
Fipronil	<LOQ	ppm	0.01	0.06	ORG-M-052
Flonicamid	<LOQ	ppm	0.01	0.05	ORG-M-052
Fludioxonil	<LOQ	ppm	0.01	0.02	ORG-M-052
Fluopyram	<LOQ	ppm	0.01	0.02	ORG-M-052
Hexythiazox	<LOQ	ppm	0.01	0.01	ORG-M-052

LOQ - Limit of Quantification

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C22242-92037

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Lab Director

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PAGE: 5 / 6

CATEGORY: Pesticides

SAMPLE MATRIX: Cannabis  
Concentrate

PO#: Nav Sidhu

DATE SAMPLED: 2022-08-29

LAB NUMBER: 2429280

DATE RECEIVED: 2022-08-30

SAMPLE ID: DI10009022462 - DISTILLATE

DATE REPORTED: 2022-09-06

STRAIN: DI10009022462 - Distillate

DATE PRINTED: 2022-09-07

Pesticide Scan	RESULT	UNIT	LOQ	HEALTH CANADA REPORTING LIMIT	METHOD REFERENCE
Imazalil	<LOQ	ppm	0.01	0.05	ORG-M-052
Imidacloprid	<LOQ	ppm	0.01	0.02	ORG-M-052
Iprodione	<LOQ	ppm	0.05	1	ORG-M-052
Kinoprene	<LOQ	ppm	0.5	1.25	ORG-M-052
Kresoxim-methyl	<LOQ	ppm	0.05	0.15	ORG-M-052
Malathion	<LOQ	ppm	0.01	0.02	ORG-M-052
Metalaxyl	<LOQ	ppm	0.01	0.02	ORG-M-052
Methiocarb	<LOQ	ppm	0.01	0.02	ORG-M-052
Methomyl	<LOQ	ppm	0.01	0.05	ORG-M-052
Methoprene	<LOQ	ppm	0.01	2	ORG-M-052
Mevinphos	<LOQ	ppm	0.01	0.05	ORG-M-052
MGK-264	<LOQ	ppm	0.05	0.05	ORG-M-052
Myclobutanil	<LOQ	ppm	0.01	0.02	ORG-M-052
Naled	<LOQ	ppm	0.01	0.2	ORG-M-052
Novaluron	<LOQ	ppm	0.01	0.05	ORG-M-052
Oxamyl	<LOQ	ppm	0.01	3	ORG-M-052
Paclobutrazol	<LOQ	ppm	0.01	0.02	ORG-M-052
Parathion-methyl	<LOQ	ppm	0.05	0.05	ORG-M-052
Permethrin	<LOQ	ppm	0.01	0.5	ORG-M-052
Phenothrin	<LOQ	ppm	0.01	0.05	ORG-M-052
Phosmet	<LOQ	ppm	0.01	0.02	ORG-M-052
Piperonyl Butoxide	<LOQ	ppm	0.01	1.25	ORG-M-052
Pirimicarb	<LOQ	ppm	0.01	0.02	ORG-M-052
Prallethrin	<LOQ	ppm	0.01	0.05	ORG-M-052
Propiconazole	<LOQ	ppm	0.01	0.1	ORG-M-052

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Phone: 519-272-3363

## CERTIFICATE OF ANALYSIS

PAGE: 6 / 6

CATEGORY: Pesticides

SAMPLE MATRIX: Cannabis  
Concentrate

PO#: Nav Sidhu

DATE SAMPLED: 2022-08-29

LAB NUMBER: 2429280

DATE RECEIVED: 2022-08-30

SAMPLE ID: DI10009022462 - DISTILLATE

DATE REPORTED: 2022-09-06

STRAIN: DI10009022462 - Distillate

DATE PRINTED: 2022-09-07

Pesticide Scan	RESULT	UNIT	LOQ	HEALTH CANADA REPORTING LIMIT	METHOD REFERENCE
Propoxur	<LOQ	ppm	0.01	0.02	ORG-M-052
Pyraclostrobin	<LOQ	ppm	0.01	0.02	ORG-M-052
Pyrethrins	<LOQ	ppm	0.01	0.05	ORG-M-052
Pyridaben	<LOQ	ppm	0.01	0.05	ORG-M-052
Quintozene	<LOQ	ppm	0.01	0.02	ORG-M-052
Resmethrin	<LOQ	ppm	0.01	0.1	ORG-M-052
Spinetoram	<LOQ	ppm	0.01	0.02	ORG-M-052
Spinosad	<LOQ	ppm	0.01	0.1	ORG-M-052
Spirodiclofen	<LOQ	ppm	0.01	0.25	ORG-M-052
Spiromesifen	<LOQ	ppm	0.01	3	ORG-M-052
Spirotetramat	<LOQ	ppm	0.01	0.1	ORG-M-052
Spiroxamine	<LOQ	ppm	0.01	0.1	ORG-M-052
Tebuconazole	<LOQ	ppm	0.01	0.05	ORG-M-052
Tebufenozide	<LOQ	ppm	0.01	0.02	ORG-M-052
Teflubenzuron	<LOQ	ppm	0.01	0.05	ORG-M-052
Tetrachlorvinphos	<LOQ	ppm	0.01	0.02	ORG-M-052
Tetramethrin	<LOQ	ppm	0.01	0.1	ORG-M-052
Thiacloprid	<LOQ	ppm	0.01	0.02	ORG-M-052
Thiamethoxam	<LOQ	ppm	0.01	0.02	ORG-M-052
Thiophanate-methyl	<LOQ	ppm	0.01	0.05	ORG-M-052
Trifloxystrobin	<LOQ	ppm	0.01	0.02	ORG-M-052

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Haifeng Song, Ph.D., C.Chem.  
Lab Director

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Additional information available upon request

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REPORT NO.  
C22263-92006

# A & L Canada Laboratories Inc.



ACCOUNT NUMBER  
02270

2136 Jetstream Road, London, ON, N5V 3P5 Tel: (519) 457-2575 Fax: (519) 457-2664

TO: MOTIF LABS LTD.  
516 JOHN ST. N.  
AYLMER, ON N5H 2B8  
CANADA  
hereinafter the "Recipient"

ATTN: Nav Sidhu  
Phone: 519-272-3363

## CERTIFICATE OF ANALYSIS

PAGE: 1 / 1

CATEGORY: Contamination

SAMPLE MATRIX: Cannabis  
Concentrate

PO#: Nav Sidhu

DATE SAMPLED: 2022-09-19

LAB NUMBER: 2639247

DATE RECEIVED: 2022-09-20

SAMPLE ID: DI10009022462 - DISTILLATE

DATE REPORTED: 2022-09-22

STRAIN: DI10009022462 - Distillate

DATE PRINTED: 2022-09-22

Residual Solvents	RESULT	UNIT	LOQ	METHOD REFERENCE
Acetonitrile	<LOQ	ppm	100	ORG-M-074
Ethanol	<LOQ	ppm	100	ORG-M-074
Heptane	<LOQ	ppm	100	ORG-M-074
Isobutane	<LOQ	ppm	100	ORG-M-074
Isopropanol	<LOQ	ppm	100	ORG-M-074
n-Butane	<LOQ	ppm	100	ORG-M-074
n-Hexane	<LOQ	ppm	100	ORG-M-074
Propane	<LOQ	ppm	100	ORG-M-074

LOQ - Limit of Quantification

The results of this report relate to the sample submitted and analyzed. All results are released based on acceptable QC data.



C22263-92006

Results Authorized By:

Haifeng Song, Ph.D., C.Chem.  
Lab Director

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# CERTIFICATE OF ANALYSIS

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

Website: [www.blueskyhempventures.com](http://www.blueskyhempventures.com)  
 Telephone: +1-306-986-3934  
 License #: LIC-YE98D76B6Q-2020

**Product Name and ID: Isolate CBD - ISL21025CBD02**

Packaged Date: N/A

Test Date: 211115

3rd Party Lab: Valens Labs

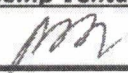
Report Date: 211122

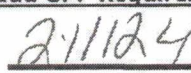
**Storage Conditions: Maintain in a cool dry environment away from oxidation, heat, moisture or sunlight.**

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 (%)	0.08	< 0.5 %	L-029-01
Cannabidiol (CBD) (%)	99.68	Report Value (%)	L-026-01
Δ9-Tetrahydrocannabinol (THC) (%)	0.053	Report Value (%)	L-026-01
Tetrahydrocannabinolic Acid (THCA) (%)	< 0.001	Report Value (%)	L-026-01
Total Potential THC (%)	0.053	Report Value (%)	L-026-01

Questions? Email [bliwiski@blueskyhempventures.com](mailto:bliwiski@blueskyhempventures.com)

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

  
 Brad Liwiski, QAP

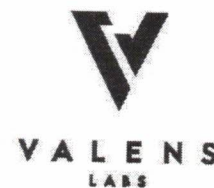
  
 Date (YYMMDD)

*Reviewed by QAP - H. Scurendeg  
 on - Feb 25, 2022*



# Certificate of Analysis - Amended

This report has been amended and supersedes all previous published results for sample HEM-21111504-01 please see attached email for the reason of change.



**Blue Sky Hemp Ventures**  
Saskatoon, SK S7R 1C3  
Canada  
ayanko@blueskyhempventures.com

**Valens Labs**  
230 Carion Rd  
Kelowna British Columbia  
Canada  
V4V 2K5



**Lab Sample ID** HEM-21111504-01  
**Client SID** ISL21025CBD02  
**Sample Type** Isolate - Hemp

**Date Received** 2021-11-15  
**Date Published** 2021-11-23

## 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
- 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
- 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 Aflatoxin 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

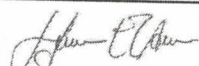
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When both CBD and CBDA are <LOQ, the Total CBD reports as <LOQ


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 2021-11-22		mg/g
Analyte	LOQ	Results
Total Potential THC	N/A	0.5260
Cannabidiol (CBD)	0.0100	996.7900
Delta9-Tetrahydrocannabinol (delta9THC)	0.0100	0.5260
Tetrahydrocannabinolic Acid (THCA)	0.0100	<LOQ

Microbials - Date Analyzed 2021-11-17		CFU/g	
Analyte	LOQ	Results	Limits
Bile Tolerant Gram-Negative	10	<LOQ	100
<i>E.coli</i>	N/A	Absent	
<i>Pseudomonas aeruginosa</i>	N/A	Absent	
<i>Salmonella</i>	N/A	Absent	
<i>Staphylococcus aureus</i>	N/A	Absent	
Total Aerobic Count	10	<LOQ	50000
Total Yeast and Mould Count	10	<LOQ	500

Mycotoxins - Date Analyzed 2021-11-16		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	
Ochratoxin A	1.0	<LOQ	20.0
Total Aflatoxins	N/A	<LOQ	4.0

Heavy Metals - Date Analyzed 2021-11-15		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 2021-11-17		ppm (µg/g)	
Analyte	LOQ	Results	Limits
<b>Quantified</b>			
Pentane	100.0	760.4	5000.0
<b>Not Quantifiable</b>			
1-Butanol	100.0	<LOQ	5000.0

Responsibilities:



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

Published By:




Aaron Wylie  
Lab Analyst, Valens Labs

Residual Solvents - Date Analyzed 2021-11-17		ppm (µg/g)	
Analyte	LOQ	Results	Limits
1-Pentanol	500.0	<LOQ	5000.0
1-Propanol	100.0	<LOQ	5000.0
2-Butanol	100.0	<LOQ	5000.0
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 2021-11-17		ppm (µg/g)	
Analyte	LOQ	Results	Limits
<b>Not Quantifiable</b>			
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	*

Responsibilities:



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

Published By:



Aaron Wylie  
Lab Analyst, Valens Labs

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Analyte	LOQ	Results	Limits
Chlorphenapyr	0.010	<LOQ	1.500
Chlorpyrifos	0.010	<LOQ	0.500
Clofentezine	0.010	<LOQ	0.010
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

Responsibilities:



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

Published By:



Aaron Wylie  
Lab Analyst, Valens Labs

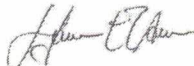
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HEM-21111504-01


Pesticides - Date Analyzed 2021-11-17		ppm (µg/g)
Analyte	LOQ	Results
MGK-264	0.050	<LOQ
Myclobutanil	0.010	<LOQ
Naled	0.010	<LOQ
Novaluron	0.010	<LOQ
Oxamyl	0.010	<LOQ
Paclobutrazol	0.010	<LOQ
Parathion Methyl	0.010	<LOQ
Permethrin(s)	0.025	<LOQ
Phenothrin	0.010	<LOQ
Phosmet	0.010	<LOQ
Piperonyl butoxide	0.010	<LOQ
Pirimicarb	0.010	<LOQ
Prallethrin	0.050	<LOQ
Propiconazole(s)	0.010	<LOQ
Propoxur	0.010	<LOQ
Pyraclostrobin	0.010	<LOQ
Pyrethrins	0.050	<LOQ
Pyridaben	0.010	<LOQ
Quintozene	0.010	<LOQ
Resmethrin	0.010	<LOQ
Spinetoram	0.010	<LOQ
Spinosad (A+D)	0.010	<LOQ
Spirodiclofen	0.010	<LOQ
Spiromesifen	0.010	<LOQ
Spirotetramat	0.010	<LOQ
Spiroxamine	0.010	<LOQ
Tebuconazole	0.010	<LOQ
Tebufenozide	0.010	<LOQ
Teflubenzuron	0.025	<LOQ
Tetramethrin	0.025	<LOQ
Tetreachlorvinphos	0.010	<LOQ
Thiacloprid	0.010	<LOQ
Thiamethoxam	0.010	<LOQ
Thiophanate-methyl	0.010	<LOQ
Trifloxystrobin	0.010	<LOQ

Water Content - Date Analyzed 2021-11-15		Water content %
Analyte	Results	

Moisture Content 0.09

OK - QAP P. J. Buckley  
Feb. 25. 2022

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

Published By:   
Aaron Wylie  
Lab Analyst, Valens Labs