



## CERTIFICATE OF COMPLIANCE

**Product:** Peach Chamomile Rest

**Product Brand:** Care by Design

**Lot:** PG230125008

**Packaging date:** February 01, 2023

**Manufactured by:** Loosh Inc.

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

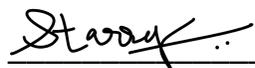
### Input Cannabinoids ingredients

Ingredient name	Lot Number
THC distillate	DI10009022462
CBD Distillate	ISL21025CBD02
CBN Distillate	ISL22051CBN02

Loosh Inc. certifies that product - **Care by Design Peach Chamomile Rest lot # PG230125008** 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: February 01, 2023



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

### Sample Information

<b>Sample Type:</b> Gummies	<b>Sigma ID:</b> 20230126-LI-28
<b>Client ID:</b> Care By Design Peach Chamomile Rest	<b>Date Received:</b> 26-Jan-23
<b>Lot #:</b> PG230125008	<b>Test Date:</b> 26-Jan-23
<b>Certificate #:</b> 20230130-LI-0133	<b>Certificate Issue Date:</b> 30-Jan-23

### Cannabinoid Profile

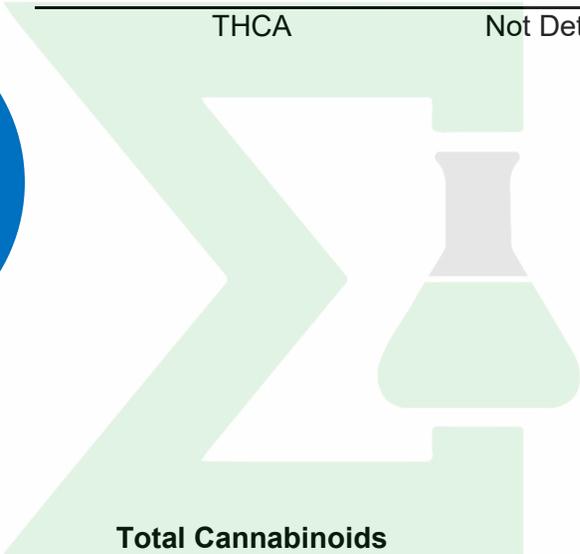
Instrument: HPLC-PDA Method: TP-001

4 Major Cannabinoids



- CBD    ■ CBDA
- Δ9-THC    ■ THCA

Compound	Results (mg/g)	Results (%)
CBD	0.9248	0.0925
CBDA	Not Detected	Not Detected
Δ9-THC	0.4759	0.0476
THCA	Not Detected	Not Detected



#### Total Cannabinoids

Total CBD	0.9248	0.0925
Total THC	0.4759	0.0476

#### 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 Bowins  
Email: shundal@looshbrands.com

### Sample Information

<b>Sample Type</b>	Gummies	<b>Sigma ID:</b>	20230126-LI-29
<b>Client ID:</b>	Care By Design Peach Chamomile Rest	<b>Date Received:</b>	26-Jan-23
<b>Lot #:</b>	PG230125008	<b>Test Date:</b>	27-Jan-23
<b>Certificate #:</b>	20230130-LI-0134	<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

### 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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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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CANADA  
hereinafter the "Recipient"

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

LOQ - Limit of Quantification

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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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Concentrate

PO#: Nav Sidhu

DATE SAMPLED: 2022-08-29

LAB NUMBER: 2429280

DATE RECEIVED: 2022-08-30

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DATE REPORTED: 2022-09-06

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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

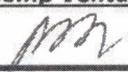
Report Date: 211122

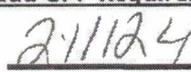
Storage Conditions: Maintain in a cool dry environment away from oxidation, heat, moisture or sunlight.

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:

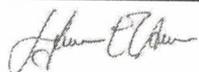


Aaron Wylie  
Lab Analyst, Valens Labs

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:



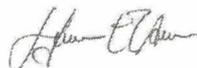
Aaron Wylie  
Lab Analyst, Valens Labs

Page 3 of 5

HEM-21111504-01

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

Pesticides - Date Analyzed 2021-11-17		ppm (µg/g)	
Analyte	LOQ	Results	Limits
MGK-264	0.050	<LOQ	*
Myclobutanil	0.010	<LOQ	0.010
Naled	0.010	<LOQ	*
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 2021-11-15		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

# 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 CBN - ISL22051CBN02**

Packaged Date: N/A

Test Date: 220721

3rd Party Lab: High North Laboratories

Report Date: 220727

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

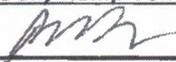
Analysis	Results	Specification	Method Used
Aerobic Colony Count (cfu/g)	< 12	< 10,000 cfu/g	MIC-MTD-001
Total Yeast and Mould Count (cfu/g)	< 1.8	< 100 cfu/g	
Bile Tolerant Gram Negative Bacteria (cfu/g)	Absent*	< 100 cfu/g	
Salmonella (Present/Absent)	Absent	Absent in 25 g	
Eschericia coli (cfu/g)	Absent	Absent in 1 g	
Aflatoxin B1 (ng/g)	< 0.9	< 2 ng/g	LAB-MTD-010
Total Aflatoxins (ng/g) (sum of B1, B2, G1, G2)	< 4	< 4 ng/g	
Arsenic (ppm)	< 0.05	≤ 0.2 ppm	LAB-MTD-027
Cadmium (ppm)	< 0.01	≤ 0.2 ppm	
Lead (ppm)	< 0.02	≤ 0.5 ppm	
Mercury (ppm)	< 0.01	≤ 0.1 ppm	
Pesticides (ug/g)	< Reporting Limits	< Reporting Limits	LAB-MTD-041
Residual Pentane (%)	< 0.004	< 0.5 %	LAB-MTD-036
Residual Ethanol (%)	< 0.003		
Residual Isopropanol (%)	< 0.001		
Cannabidiol (CBD) (%)	< 0.03	Report Value (%)	LAB-MTD-020
Cannabidiolic Acid (CBDA) (%)	< 0.03	Report Value (%)	
Total Potential CBD (%)	N/A	Report Value (%)	
Δ9-Tetrahydrocannabinol (THC) (%)	< 0.03	Report Value (%)	
Tetrahydrocannabinolic Acid (THCA) (%)	< 0.03	Report Value (%)	
Total Potential THC (%)	N/A	Report Value (%)	
Cannabinol (CBN) (%)	94.85	Report Value (%)	LAB-MTD-021
Cannabigerol (CBG) (%)	< 0.03	Report Value (%)	LAB-MTD-020
Δ8-Tetrahydrocannabinol (THC) (%)	< 0.03	Report Value (%)	

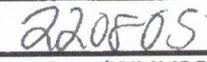
N/A = Not applicable

**\*NOTE: See planned deviation PDEV-2022-TT-007 regarding testing requirements as per client request.**

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)

00213532  
Date: 2022-08-04  
Certificate: 1659639535



High North Inc.  
241 Hanlan Rd, Unit 7  
Woodbridge, ON, L4L 3R7  
1-416-864-6119  
LIC-P4PNJMAC20-2022

Client: Blue Sky Hemp Ventures      Strain: Isolate CBN  
219 Apex Street,      Lot: ISL22051CBN02  
SASKATOON, SK, S7R3C1      Matrix: Oil  
Name: Teegan Turchyn      Sub-matrix: Isolate  
3069863934      Sampled: 2022-07-20  
tturchyn@blueskyhempventures.com      Received: 2022-07-21

## Certificate of Analysis

<b>Cannabinoid Analysis</b>	LOQ (%)	wt%	mg/g
Total THC [(THCA x 0.877) + D9-THC]		0	0
Total CBD [(CBDA x 0.877) + CBD]		0	0
CBN	0.03	94.852	948.516
THCA-A	0.03	ND	ND
CBC	0.03	ND	ND
D8-THC	0.03	ND	ND
THCV	0.03	ND	ND
D9-THC	0.03	ND	ND
CBG	0.03	ND	ND
CBD	0.03	ND	ND
CBDA	0.03	ND	ND
CBGA	0.03	ND	ND
CBDV	0.03	ND	ND
<b>Total of all quantified cannabinoids:</b>		94.852	948.516

Abbreviations: wt% = percentage of weight, CFU = colony forming units, ppm = Parts per million, ppb = Parts per billion, ND = None Detected, BLQ = Below Limit of Quantification, LOQ = Limit of Quantification, LOD = Limit of Detection, RL = Reporting Limit, \* = Mixture of Isomers

Authorized by:

  
Will Zhang, Quality Assurance Specialist

<b>Mycotoxin Analysis</b>	LOD (ppb)	LOQ (ppb)	RL (ppb)	Result (ppb)	Status
Aflatoxin-B1	0.9	2	2	ND	PASS
Aflatoxin-B2	0.8	2		ND	PASS
Aflatoxin-G1	0.9	2		ND	PASS
Aflatoxin-G2	0.8	2		ND	PASS
<b>Sum of Aflatoxins:</b>			4	0	PASS
Ochratoxin-A	9.4	20	20	ND	PASS

<b>Microbial Analysis</b>	LOD (CFU/g)	RL (CFU/g)	Result (CFU/g)	Status
Total Aerobic Count	12	50,000	ND	PASS
Bile-Tolerant Gram-Negative			Absent in 1g	PASS
Total Yeast and Mold Count	1.8	500	ND	PASS
S.aureus/P.aeruginosa			Absent in 1g	PASS
Salmonella			Absent in 25g	PASS
E.coli			Absent in 1g	PASS

<b>Heavy Metals Analysis</b>	LOD (ppm)	LOQ (ppm)	RL (ppm)	Result (ppm)	Status
Arsenic	0.05	0.2	0.2	ND	PASS
Cadmium	0.01	0.05	0.3	ND	PASS
Lead	0.02	0.5	0.5	ND	PASS
Mercury	0.01	0.05	0.1	ND	PASS

Abbreviations: wt% = percentage of weight, CFU = colony forming units, ppm = Parts per million, ppb = Parts per billion, ND = None Detected, BLQ = Below Limit of Quantification, LOQ = Limit of Quantification, LOD = Limit of Detection, RL = Reporting Limit, \* = Mixture of Isomers

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<b>Residual Solvents Analysis</b>	LOD (ppm)	LOQ (ppm)	RL (ppm)	Result (ppm)	Status
1-Butanol	22.7	1000	5,000	ND	PASS
1-Pentanol	28.9	1000	5,000	ND	PASS
1-Propanol	44.6	1000	5,000	ND	PASS
2-Butanol	20.1	1000	5,000	ND	PASS
2-Methyl-1-propanol	11.6	1000	5,000	ND	PASS
2-Propanol	13.3	1000	5,000	ND	PASS
3-Methyl-1-butanol	16.8	1000	5,000	ND	PASS
Acetone	19.4	1000	5,000	ND	PASS
Anisole	104	1000	5,000	ND	PASS
Butyl acetate	67.3	1000	5,000	ND	PASS
Dimethyl sulfoxide	55.8	1000	5,000	ND	PASS
Ethanol	34.5	1000	5,000	ND	PASS
Ethyl acetate	17.3	1000	5,000	ND	PASS
Ethyl ether	27	1000	5,000	ND	PASS
Ethyl formate	92.5	1000	5,000	ND	PASS
Heptane	19.2	1000	5,000	ND	PASS
Isobutyl acetate	28.4	1000	5,000	ND	PASS
Isopropyl acetate	13.5	1000	5,000	ND	PASS
Methyl acetate	26.9	1000	5,000	ND	PASS
Methylethyl ketone	13.1	1000	5,000	ND	PASS
Pentane	35.7	1000	5,000	ND	PASS
Propyl acetate	13.5	1000	5,000	ND	PASS
Tert-Butylmethyl ether	134.2	1000	5,000	ND	PASS
Triethylamine	22.4	1000	5,000	ND	PASS

Abbreviations: wt% = percentage of weight, CFU = colony forming units, ppm = Parts per million, ppb = Parts per billion, ND = None Detected, BLQ = Below Limit of Quantification, LOQ = Limit of Quantification, LOD = Limit of Detection, RL = Reporting Limit, \* = Mixture of Isomers

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 Wei Zhao, Quality Assurance Specialist

<b>Pesticides Analysis</b>	LOD (ppm)	LOQ (ppm)	RL (ppm)	Result (ppm)	Status
Abamectin	0.0244	0.25	0.25	ND	PASS
Acephate	0.003	0.05	0.05	ND	PASS
Acequinocyl	0.1489	0.50		ND	PASS
Acetamiprid	0.0019	0.05	0.05	ND	PASS
Aldicarb	0.0458	0.5	0.5	ND	PASS
Allethrin	0.0306	0.1	0.1	ND	PASS
Azadirachtin	0.0638	0.5	0.5	ND	PASS
Azoxystrobin	0.0014	0.01	0.01	ND	PASS
Benzovindiflupyr	0.003	0.01	0.01	ND	PASS
Bifenazate	0.0024	0.01	0.01	ND	PASS
Bifenthrin	0.0259	0.10		ND	PASS
Boscalid	0.0022	0.01	0.01	ND	PASS
Buprofezin	0.0160	0.10		ND	PASS
Carbaryl	0.0046	0.025	0.025	ND	PASS
Carbofuran	0.0022	0.01	0.01	ND	PASS
Chlorantraniliprole	0.0146	0.10		ND	PASS
Chlorfenapyr	0.2688	1.5	1.5	ND	PASS
Chlorpyrifos	0.0143	0.5	0.5	ND	PASS
Clofentezine	0.0012	0.01	0.01	ND	PASS
Clothianidin	0.005	0.025	0.025	ND	PASS
Coumaphos	0.003	0.01	0.01	ND	PASS
Cyantraniliprole	0.0043	0.01	0.01	ND	PASS
Cyfluthrin	0.1434	0.50		ND	PASS
Cypermethrin	0.0451	0.30		ND	PASS
Cyprodinil	0.0023	0.01	0.01	ND	PASS
Daminozide	0.0351	0.30		ND	PASS
Deltamethrin	0.0305	0.10		ND	PASS
Diazinon	0.0163	0.10		ND	PASS
Dichlorvos	0.0127	0.05	0.05	ND	PASS
Dimethoate	0.0022	0.01	0.01	ND	PASS
Dimethomorph	0.0272	0.10		ND	PASS
Dinotefuran	0.0037	0.05	0.05	ND	PASS
Dodemorph	0.0247	0.10		ND	PASS
Endosulfan-alpha	0.1472	2.5	2.5	ND	PASS
Endosulfan-beta	0.2012	2.5	2.5	ND	PASS
Endosulfan sulfate	0.0181	2.5	2.5	ND	PASS
Ethoprophos	0.0029	0.01	0.01	ND	PASS
Etofenprox	0.0217	0.10		ND	PASS
Etoxazole	0.0161	0.10		ND	PASS
Etridiazol	0.0195	0.15	0.15	ND	PASS
Fenoxycarb	0.0032	0.01	0.01	ND	PASS
Fenpyroximate	0.0135	0.10		ND	PASS
Fensulfothion	0.0026	0.01	0.01	ND	PASS

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Authorized by:

  
 W&P Zham Quality Assurance Specialist

<b>Pesticides Analysis</b>	LOD (ppm)	LOQ (ppm)	RL (ppm)	Result (ppm)	Status
Fenthion	0.0031	0.01	0.01	ND	PASS
Fenvalerate	0.1895	0.50		ND	PASS
Fipronil	0.0031	0.01	0.01	ND	PASS
Flonicamid	0.0047	0.025	0.025	ND	PASS
Fludioxonil	0.003	0.01	0.01	ND	PASS
Fluopyram	0.003	0.01	0.01	ND	PASS
Hexythiazox	0.0178	0.10		ND	PASS
Imazalil	0.0024	0.01	0.01	ND	PASS
Imidacloprid	0.0029	0.01	0.01	ND	PASS
Iprodione	0.0521	0.5	0.5	ND	PASS
Kinoprene	0.0895	1.25	1.25	ND	PASS
Kresoxim-methyl	0.0028	0.15	0.15	ND	PASS
Malathion	0.0023	0.01	0.01	ND	PASS
Metalaxyl	0.0022	0.01	0.01	ND	PASS
Methiocarb	0.003	0.01	0.01	ND	PASS
Methomyl	0.0041	0.025	0.025	ND	PASS
Methoprene	0.1350	0.50		ND	PASS
Mevinphos	0.0046	0.025	0.025	ND	PASS
MGK-264	0.2124	0.50		ND	PASS
Myclobutanil	0.005	0.01	0.01	ND	PASS
Naled	0.0245	0.10		ND	PASS
Novaluron	0.0031	0.025	0.025	ND	PASS
Oxamyl	0.0088	1.5	1.5	ND	PASS
Paclobutrazol	0.0033	0.01	0.01	ND	PASS
Parathion-methyl	0.2699	0.5		ND	PASS
Permethrin	0.0441	0.3		ND	PASS
Phenothrin	0.0583	0.30		ND	PASS
Phosmet	0.0157	0.30		ND	PASS
Piperonyl butoxide	0.0162	1.25	1.25	ND	PASS
Pirimicarb	0.002	0.01	0.01	ND	PASS
Prallethrin	0.0631	0.60		ND	PASS
Propiconazole	0.0178	0.10		ND	PASS
Propoxur	0.0025	0.01	0.01	ND	PASS
Pyraclostrobin	0.0029	0.01	0.01	ND	PASS
Pyrethrins	0.0221	0.10		ND	PASS
Pyridaben	0.0022	0.02	0.02	ND	PASS
Quintozene	0.1097	0.10		ND	PASS
Resmethrin	0.0098	0.05	0.05	ND	PASS
Spinetoram	0.0037	0.01	0.01	ND	PASS
Spinosad	0.0033	0.01	0.01	ND	PASS
Spirodiclofen	0.0801	0.3		ND	PASS
Spiromesifen	0.0200	0.10		ND	PASS
Spirotetramat	0.0032	0.01	0.01	ND	PASS

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 Wil Zhang, Quality Assurance Specialist

<b>Pesticides Analysis</b>	LOD (ppm)	LOQ (ppm)	RL (ppm)	Result (ppm)	Status
Spiroxamine	0.0306	0.10		ND	PASS
Tebuconazole	0.0017	0.01	0.01	ND	PASS
Tebufenozide	0.0022	0.01	0.01	ND	PASS
Teflubenzuron	0.0037	0.025	0.025	ND	PASS
Tetrachlorvinphos	0.002	0.01	0.01	ND	PASS
Tetramethrin	0.0198	0.02		ND	PASS
Thiacloprid	0.0017	0.01	0.01	ND	PASS
Thiamethoxam	0.0019	0.01	0.01	ND	PASS
Thiophanate-methyl	0.0132	0.01		ND	PASS
Trifloxystrobin	0.0019	0.01	0.01	ND	PASS

## **Comments**

This COA cancels and supersedes certificate ID 1658958487 dated 2022-07-27.  
Reason for Revision: Revised Microbial Analysis specifications and added Ochratoxin testing per client request

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# Details of Testing

## **Cannabinoid Analysis**

Analysis of 11 Cannabinoids by HPLC & UHPLC

Method LAB-MTD-020: Flower (LOQ 0.06%), Oil (LOQ 0.03%), Concentrates (LOQ 0.6%)

Method LAB-MTD-021: Isolates (LOQ 0.06%)

Method LAB-MTD-023: Tablets & Granules (LOQ 0.025%)

Method LAB-MTD-030: Topicals (LOQ 0.005%)

Method LAB-MTD-039: Determination of 5 Cannabinoids in Cannabis Edibles; Liquid Edibles (LOQ 0.0002%) and Solid Edibles (LOQ 0.005%)

## **Terpene Analysis**

Profile of 42 terpenes by GC/MS

Method LAB-MTD-035: Cannabis Flower, Oil

## **Pesticide Analysis**

Determination of 96 Pesticide Residues by LC/MS/MS and GC/MS/MS

Method LAB-MTD-010: Cannabis Flower, Oil

Method LAB-MTD-040: Determination of EP Pesticide Residue in Cannabis Oil by GCMSMS

Method LAB-MTD-041: Determination of EP Pesticide Residues in Cannabis Flower and Related Products by GCMSMS

## **Mycotoxin Analysis**

Determination of Aflatoxins B1, B2, G1, G2 and Ochratoxin-A by LC/MS/MS

Method LAB-MTD-010: Cannabis Flower, Oil

Method LAB-MTD-029: Tablets

Method LAB-MTD-037: Topicals

## **Heavy Metal Analysis**

Determination of Heavy Metal contamination (Arsenic, Cadmium, Lead & Mercury) by ICP/MS

Method LAB-MTD-027: Cannabis Flower, Oil, Topicals, Tablets

## **Residual Solvents Analysis**

Determination of 24 Residual Solvents by GC/MS

Method LAB-MTD-036: Cannabis Oil

Method LAB-MTD-028: Tablets

## **Determination of Butane and Propane Residual Solvents in Cannabis Oil**

Method LAB-MTD-034 (GC/MS): Cannabis Oil

Information is accurate unless otherwise stated. The results of this report are reflective only to material and product analyzed as received. This report shall not be reproduced, without written approval from High North Laboratories. Test Results are confidential unless explicitly waived otherwise.

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# Details of Testing

## **Microbial Analysis, Powdery Mildew & Gender Determination**

Molecular detection and quantitation by PCR & qPCR

Cannabis Flower, Oil, Cannabis-Infused Products

Method MIC-MTD-001 (TAMC, TYMC, BTGN, E.coli, Salmonella, Staph/Pseudomonas)

Method MIC-MTD-005: (Powdery Mildew & Gender Determination)

Method MIC-MTD-006: Determination of Viruses in Cannabis via qPCR and ELISA

## **Moisture Analysis**

Water Activity & Moisture Content (Loss on Drying)

Method LAB-MTD-017 (Loss on Drying; Dry flower only)

Method LAB-MTD-031 (Water activity,  $a_w$ )

## **Foreign Matter Analysis**

Visual/Magnified Inspection for Foreign Matter

Method LAB-MTD-022

## **Total Ash Analysis**

Method LAB-MTD-043: Total Ash by Muffle Furnace in Cannabis Products

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