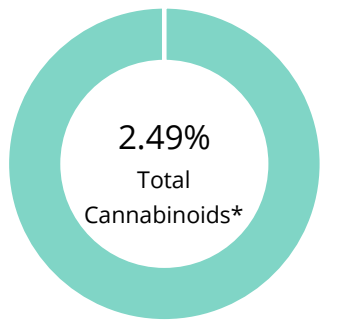


Myaderm Advanced Therapy CBD Cream

Batch ID:	Batch 1188	Test ID:	T000174187
Type:	Concentrate	Submitted:	11/05/2021 @ 09:18 AM
Test:	Potency	Started:	11/8/2021
Method:	TM14 (HPLC-DAD)	Reported:	11/9/2021

CANNABINOID PROFILE



CBD	2.49%
CBDa	0.00%
delta 9 THC	0.00%
THCa	0.00%

Compound	LOQ (%)	Result (%)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.04	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.04	ND	ND
Cannabidiolic acid (CBDA)	0.05	ND	ND
Cannabidiol (CBD)	0.05	2.49	24.9
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.05	ND	ND
Cannabinolic Acid (CBNA)	0.03	ND	ND
Cannabinol (CBN)	0.01	ND	ND
Cannabigerolic acid (CBGA)	0.04	ND	ND
Cannabigerol (CBG)	0.01	ND	ND
Tetrahydrocannabivarinic Acid (THCVA)	0.03	ND	ND
Tetrahydrocannabivarin (THCV)	0.01	ND	ND
Cannabidivarinic Acid (CBDVA)	0.02	ND	ND
Cannabidivarin (CBDV)	0.01	ND	ND
Cannabichromenic Acid (CBCA)	0.01	ND	ND
Cannabichromene (CBC)	0.02	ND	ND
Total Cannabinoids		2.49	24.9
Total Potential THC**		ND	ND
Total Potential CBD**		2.49	24.9

NOTES:

N/A

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)

* Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.


** Total Potential THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step.

$$\text{Total THC} = \text{THC} + (\text{THCa} * (0.877)) \text{ and}$$


$$\text{Total CBD} = \text{CBD} + (\text{CBDa} * (0.877))$$

ND = None Detected (Defined by Dynamic Range of the method)

FINAL APPROVAL


 Jacob Miller
 9-Nov-2021
 4:51 PM

PREPARED BY / DATE


 Rvan Weems
 9-Nov-2021
 4:52 PM

APPROVED BY / DATE

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC. ISO/IEC 17025:2005 Accredited A2LA Certificate Number 4329.02



Certificate #4329.02

Myaderm Advanced Therapy CBD Cream

Batch ID:	Batch 1188	Test ID:	T000174188
Matrix:	Finished Product	Received:	11/05/2021 @ 09:18 AM
Test:	Microbial Contaminants	Started:	11/5/2021
Method:	TM25 (qPCR) TM24, TM26, TM27, TM28 (Culture Plating)	Reported:	11/8/2021

MICROBIAL CONTAMINANTS

Contaminant	Method	LOD	LLOQ	ULOQ	Result
Total Aerobic Count*	TM-26 Culture Plating	10 ² CFU/g	10 ³ CFU/g	1.5x10 ⁵ CFU/g	None Detected
Total Coliforms*	TM-27 Culture Plating	10 ¹ CFU/g	10 ² CFU/g	1.5x10 ⁴ CFU/g	None Detected
Total Yeast and Molds*	TM-24 Culture Plating	10 ¹ CFU/g	10 ² CFU/g	1.5x10 ⁴ CFU/g	None Detected
E. coli	TM-28 Culture Plating	1 CFU/g	NA	NA	Absent
E. coli (STEC)	TM-25 PCR	1 CFU/g	NA	NA	Absent
Salmonella	TM-25 PCR	1 CFU/g	NA	NA	Absent

* Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form.

Examples: 10² = 100 CFU
 10³ = 1,000 CFU
 10⁴ = 10,000 CFU
 10⁵ = 100,000 CFU

NOTES:

Free from visual mold, mildew, and foreign matter

DEFINITIONS:

CFU/g = Colony Forming Units per Gram.

LOD = Limit of Detection

ULOQ = Upper Limit of Quantitation

LLOQ = Lower Limit of Quantitation

FINAL APPROVAL


 Brianne Maillot
 11/8/2021
 4:12:00 PM

PREPARED BY / DATE


 Brett Hudson
 11/8/2021
 4:42:00 PM

APPROVED BY / DATE

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Certificate #4329.03

Report: COA Evaluation Summary

OLCC License No. 10087092BDA | ORELAP ID. 4147

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For OLCC/OHA Compliance Purposes.

Product Description

Client: **GVB Oregon**

Product Name: **08.30.21 CBD-Isolate
B# GBL BCH8966 Dup**

Process Date: 2021-08-29

Retest Date: 2023-08-30

Matrix: Hemp Concentrate

Metric Source ID: n/a

Metric Package ID: n/a

License Number: n/a

Date Collected: 2021-08-30

Date Received: 2021-08-30

Report Date: 2021-09-02

Report ID: A4493-02

Tests Requested: Cannabinoid Potency Analysis
Pesticide Analysis
Residual Solvent Analysis

Evaluation Summary

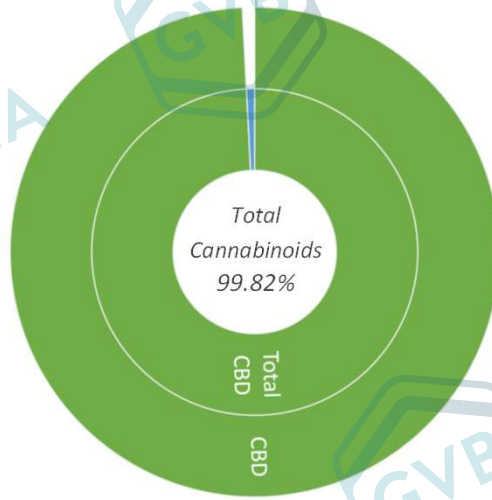
Moisture Analysis

Test Not Required

Cannabinoid Potency Analysis

Total THC *
< LOQ

Total CBD *
99.01 %
990.1 mg/g



Abv.	Dry Wt. %	Dry Wt. mg/g
THCA	< LOQ	< LOQ
Δ-9-THC	< LOQ	< LOQ
Δ-8-THC	< LOQ	< LOQ
THCV	< LOQ	< LOQ
CBDA	< LOQ	< LOQ
CBD	99.01 %	990.1 mg/g
CBGA	< LOQ	< LOQ
CBG	< LOQ	< LOQ
CBDVA	< LOQ	< LOQ
CBDV	0.81 %	8.1 mg/g
CBN	< LOQ	< LOQ
CBL	< LOQ	< LOQ
CBC	< LOQ	< LOQ

Pesticide Analysis

Pesticide Status

Pass

No Pesticides Were Detected above Oregon's action limit as stated in OAR 333-007-0400.

* moisture compensated & adjusted for the loss of carboxylic acid group - OAR 333-064-0100

Report: Case Narrative

This certificate of analysis is prepared for...

GVB Oregon

2490 Ewald Ave SE Salem, OR 97302

This report presents the analytical findings for the sample collected on 2021-08-30 by Skyler Smith using sampling plan A4493 and received by PREE Laboratory on 2021-08-30. The sample was assigned a laboratory ID of A4493-02. The results in this report only apply to sample A4493-02.

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The testing methods used are of sufficient sensitivity to meet the compliance criteria set in OAR 333-007. However, it is the responsibility of the client to utilize the data to comply with standards set in OAR 333-007.

All analyses were performed in accordance with PREE Laboratory's NELAP/TNI approved quality control system and all quality control data was within the laboratory's predefined acceptance criteria unless otherwise noted in the case narrative of this report. General comments are also recorded below.

Notes:

The Oregon Department of Agriculture requires hemp products to not contain more than 0.35% total THC, per OAR 603-048. Residual solvent analysis was subcontracted. The report from the subcontracting laboratory is attached. No special conditions were noted during the processing and testing of the sample.



Sardar, Tamzid M. | Laboratory Director
Corvallis, Oregon



If you have any questions regarding the information in this report, please feel free to call 541-257-5002 or email PREE at services@preelab.com.

Report: Evaluation Detail

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Moisture Analysis

Evaluation Detail

Moisture Analysis	Test Not Requested/Required
-------------------	-----------------------------

Cannabinoid Potency Analysis

Evaluation Detail

Product Name: **08.30.21 CBD-Isolate B#GBL
BCH8966 Dup**

Analysis Date: 2021-09-01

Testing Batch ID: V1706,1705,1704,1699

Testing Method: *LSOP #303 Cannabinoid Quantification*

Cannabinoid Potency Analysis	Compound	Abv.	Dry Wt. (%)	Dry Wt. (mg/g)	RL (%)
Total THC *	Tetrahydro-cannabinolic acid	THCA	< LOQ	< LOQ	0.2 %
< LOQ	Delta9 Tetrahydro-cannabinol	Δ-9-THC	< LOQ	< LOQ	0.2 %
< LOQ	Delta8 Tetrahydro-cannabinol	Δ-8-THC	< LOQ	< LOQ	0.2 %
	Tetrahydrocannabivarin	THCV	< LOQ	< LOQ	0.2 %
Total CBD *	Cannabidiolic acid	CBDA	< LOQ	< LOQ	0.2 %
99.01 %	Cannabidiol	CBD	99.01 %	990.1	0.2 %
990.1 mg/g	Cannabigerolic acid	CBGA	< LOQ	< LOQ	0.2 %
	Cannabigerol	CBG	< LOQ	< LOQ	0.2 %
	Cannabidivarinic acid	CBDVA	< LOQ	< LOQ	0.2 %
	Cannabidivarin	CBDV	0.81 %	8.1	0.2 %
	Cannabinol	CBN	< LOQ	< LOQ	0.2 %
	Cannabicyclol	CBL	< LOQ	< LOQ	0.2 %
	Cannabichromene	CBC	< LOQ	< LOQ	0.2 %

Note: Accreditation for Δ-8-THC, THCV, CBGA,CBG, CBDVA, CBDV, CBL, CBC, CBN is not offered by ORELAP and therefore are not accredited tests.

* moisture compensated & adjusted for the loss of carboxylic acid group - OAR 333-064-0100

Report: Evaluation Detail

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Pesticide Analysis

Product Name: **08.30.21 CBD-Isolate B#GBL
BCH8966 Dup**

Analysis Date: 2021-08-31

Testing Batch ID: V1699,1698,1656

Testing Method: LSOP #307 Pesticides by LCMS/MS

Evaluation Detail

Pesticide Name	Tested Value (ppm)	Pass Criteria (ppm)	LOQ (ppm)	Status Pass/Unsatisfactory
Abamectin	< LOQ	0.50	0.20	Pass
Acephate	< LOQ	0.40	0.04	Pass
Acequinocyl	< LOQ	2.00	0.20	Pass
Acetamiprid	< LOQ	0.20	0.04	Pass
Aldicarb	< LOQ	0.40	0.04	Pass
Azoxystrobin	< LOQ	0.20	0.04	Pass
Bifenazate	< LOQ	0.20	0.04	Pass
Bifenthrin	< LOQ	0.20	0.20	Pass
Boscalid	< LOQ	0.40	0.04	Pass
Carbaryl	< LOQ	0.20	0.04	Pass
Carbofuran	< LOQ	0.20	0.04	Pass
Chlorantraniliprole	< LOQ	0.20	0.04	Pass
Chlorfenapyr	< LOQ	1.00	0.20	Pass
Chlorpyrifos	< LOQ	0.20	0.04	Pass
Clofentezine	< LOQ	0.20	0.20	Pass
Cyfluthrin	< LOQ	1.00	1.00	Pass
Cypermethrin	< LOQ	1.00	1.00	Pass
Daminozide	< LOQ	1.00	0.20	Pass
Diazinon	< LOQ	0.20	0.04	Pass
Dichlorvos	< LOQ	1.00	0.20	Pass
Dimethoate	< LOQ	0.20	0.04	Pass
Ethoprophos	< LOQ	0.20	0.04	Pass
Etofenprox	< LOQ	0.40	0.20	Pass
Etozazole	< LOQ	0.20	0.04	Pass
Fenoxycarb	< LOQ	0.20	0.04	Pass
Fenpyroximate	< LOQ	0.40	0.20	Pass
Fipronil	< LOQ	0.40	0.04	Pass
Flonicamid	< LOQ	1.00	0.04	Pass
Fludioxonil	< LOQ	0.40	0.20	Pass
Hexythiazox	< LOQ	1.00	0.04	Pass
Imazalil	< LOQ	0.20	0.04	Pass
Imidacloprid	< LOQ	0.40	0.04	Pass
Kresoxim-methyl	< LOQ	0.40	0.20	Pass

Continued on next page...

Report: Evaluation Detail

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Pesticide Analysis

Evaluation Detail

Pesticide Name	Tested Value (ppm)	Pass Criteria (ppm)	LOQ (ppm)	Status Pass/Unsatisfactory
Malathion	< LOQ	0.20	0.04	Pass
Metalaxyl	< LOQ	0.20	0.04	Pass
Methiocarb	< LOQ	0.20	0.04	Pass
Methomyl	< LOQ	0.40	0.04	Pass
Methyl-Parathion	< LOQ	0.20	0.20	Pass
MGK-264	< LOQ	0.20	0.20	Pass
Myclobutanil	< LOQ	0.20	0.20	Pass
Naled	< LOQ	0.50	0.04	Pass
Oxamyl	< LOQ	1.00	0.04	Pass
Paclobutrazol	< LOQ	0.40	0.04	Pass
Permethrins	< LOQ	0.20	0.20	Pass
Phosmet	< LOQ	0.20	0.04	Pass
Piperonyl butoxide	< LOQ	2.00	0.04	Pass
Prallethrin	< LOQ	0.20	0.20	Pass
Propiconazole	< LOQ	0.40	0.20	Pass
Propoxur	< LOQ	0.20	0.04	Pass
Pyrethrins	< LOQ	1.00	1.00	Pass
Pyridaben	< LOQ	0.20	0.04	Pass
Spinosad	< LOQ	0.20	0.20	Pass
Spiromesifen	< LOQ	0.20	0.20	Pass
Spirotetramat	< LOQ	0.20	0.04	Pass
Spiroxamine	< LOQ	0.40	0.04	Pass
Tebuconazole	< LOQ	0.40	0.04	Pass
Thiacloprid	< LOQ	0.20	0.04	Pass
Thiamethoxam	< LOQ	0.20	0.04	Pass
Trifloxystrobin	< LOQ	0.20	0.04	Pass

Report: Quality Check

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For OLCC/OHA Compliance Purposes.

Moisture Analysis

Quality Control Detail

Moisture Analysis |

Cannabinoid Potency Analysis

Quality Control Detail

Analysis Date: 2021-09-01

Testing Batch ID: V1706,1705,1704,1699

Cannabinoid Potency Analysis	MB	LCS	Expected Value (%)	Tested Value (%)	Pass Criteria
Tetrahydro-cannabinolic acid	○		< 0.1%	< 0.1%	< 0.1%
Delta9 Tetrahydro-cannabinol	○		< 0.1%	< 0.1%	< 0.1%
Cannabidiolic acid	○		< 0.1%	< 0.1%	< 0.1%
Cannabidiol	○		< 0.1%	< 0.1%	< 0.1%
Tetrahydro-cannabinolic acid		●	100.0%	105.8%	80-120%
Delta9 Tetrahydro-cannabinol		●	100.0%	110.2%	80-120%
Cannabidiolic acid		●	100.0%	103.6%	80-120%
Cannabidiol		●	100.0%	106.7%	80-120%

Report: Quality Check

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Pesticide Analysis

Analysis Date: 2021-08-31

Testing Batch ID: V1699,1698,1656

Quality Control Detail

Pesticide Name	MB	Expected Value (ppm)	Tested Value (ppm)	Pass Criteria (ppm)
Abamectin	o	< 0.1	< 0.1	< 0.1
Acephate	o	< 0.02	< 0.02	< 0.02
Acequinocyl	o	< 0.1	< 0.1	< 0.1
Acetamiprid	o	< 0.02	< 0.02	< 0.02
Aldicarb	o	< 0.02	< 0.02	< 0.02
Azoxystrobin	o	< 0.02	< 0.02	< 0.02
Bifenazate	o	< 0.02	< 0.02	< 0.02
Bifenthrin	o	< 0.1	< 0.1	< 0.1
Boscalid	o	< 0.02	< 0.02	< 0.02
Carbaryl	o	< 0.02	< 0.02	< 0.02
Carbofuran	o	< 0.02	< 0.02	< 0.02
Chlorantraniliprole	o	< 0.02	< 0.02	< 0.02
Chlorfenapyr	o	< 0.1	< 0.1	< 0.1
Chlorpyrifos	o	< 0.02	< 0.02	< 0.02
Clofentezine	o	< 0.1	< 0.1	< 0.1
Cyfluthrin	o	< 0.5	< 0.5	< 0.5
Cypermethrin	o	< 0.5	< 0.5	< 0.5
Daminozide	o	< 0.1	< 0.1	< 0.1
Diazinon	o	< 0.02	< 0.02	< 0.02
Dichlorvos	o	< 0.1	< 0.1	< 0.1
Dimethoate	o	< 0.02	< 0.02	< 0.02
Ethoprophos	o	< 0.02	< 0.02	< 0.02
Etofenprox	o	< 0.1	< 0.1	< 0.1
Etoxazole	o	< 0.02	< 0.02	< 0.02
Fenoxycarb	o	< 0.02	< 0.02	< 0.02
Fenpyroximate	o	< 0.1	< 0.1	< 0.1
Fipronil	o	< 0.02	< 0.02	< 0.02
Flonicamid	o	< 0.02	< 0.02	< 0.02
Fludioxonil	o	< 0.1	< 0.1	< 0.1
Hexythiazox	o	< 0.02	< 0.02	< 0.02
Imazalil	o	< 0.02	< 0.02	< 0.02
Imidacloprid	o	< 0.02	< 0.02	< 0.02
Kresoxim-methyl	o	< 0.1	< 0.1	< 0.1

Continued on next page...

Report: Quality Check

Pesticide Analysis

Quality Control Detail

Pesticide Name	MB	Expected Value (ppm)	Tested Value (ppm)	Pass Criteria (ppm)
Malathion	o	< 0.02	< 0.02	< 0.02
Metalaxyl	o	< 0.02	< 0.02	< 0.02
Methiocarb	o	< 0.02	< 0.02	< 0.02
Methomyl	o	< 0.02	< 0.02	< 0.02
Methyl-Parathion	o	< 0.1	< 0.1	< 0.1
MGK-264 I	o	< 0.1	< 0.1	< 0.1
MGK-264 II	o	< 0.1	< 0.1	< 0.1
Myclobutanil	o	< 0.1	< 0.1	< 0.1
Naled	o	< 0.02	< 0.02	< 0.02
Oxamyl	o	< 0.02	< 0.02	< 0.02
Paclbutrazol	o	< 0.02	< 0.02	< 0.02
Permethrin - trans	o	< 0.1	< 0.1	< 0.1
Permethrin - cis	o	< 0.1	< 0.1	< 0.1
Phosmet	o	< 0.02	< 0.02	< 0.02
Piperonyl butoxide	o	< 0.02	< 0.02	< 0.02
Prallethrin	o	< 0.1	< 0.1	< 0.1
Propiconazole	o	< 0.1	< 0.1	< 0.1
Propoxur	o	< 0.02	< 0.02	< 0.02
Pyrethrin - Cinerin	o	< 0.5	< 0.5	< 0.5
Pyrethrin - Jasmolin	o	< 0.5	< 0.5	< 0.5
Pyrethrin - Pyrethrins	o	< 0.5	< 0.5	< 0.5
Pyridaben	o	< 0.02	< 0.02	< 0.02
Spinosyn A	o	< 0.1	< 0.1	< 0.1
Spinosyn D	o	< 0.1	< 0.1	< 0.1
Spiromesifen	o	< 0.1	< 0.1	< 0.1
Spirotetramat	o	< 0.02	< 0.02	< 0.02
Spiroxamine	o	< 0.02	< 0.02	< 0.02
Tebuconazole	o	< 0.02	< 0.02	< 0.02
Thiacloprid	o	< 0.02	< 0.02	< 0.02
Thiamethoxam	o	< 0.02	< 0.02	< 0.02
Trifloxystrobin	o	< 0.02	< 0.02	< 0.02

Continued on next page...

Report: Quality Check

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Pesticide Analysis

Quality Control Detail

Pesticide Name	LCS	Expected Recovery (%)	Actual Recovery (%)	Pass Criteria (%)
Abamectin	•	100.00	124.16	60 - 140
Acephate	•	100.00	114.25	60 - 140
Acequinocyl	•	100.00	91.34	60 - 140
Acetamiprid	•	100.00	107.22	60 - 140
Aldicarb	•	100.00	104.28	60 - 140
Azoxystrobin	•	100.00	111.57	60 - 140
Bifenazate	•	100.00	90.46	60 - 140
Bifenthrin	•	100.00	92.07	60 - 140
Boscalid	•	100.00	122.02	60 - 140
Carbaryl	•	100.00	104.50	60 - 140
Carbofuran	•	100.00	110.09	60 - 140
Chlorantraniliprole	•	100.00	118.98	60 - 140
Chlorfenapyr	•	100.00	82.06	60 - 140
Chlorpyrifos	•	100.00	70.79	60 - 140
Clofentezine	•	100.00	127.25	60 - 140
Cyfluthrin	•	100.00	86.53	60 - 140
Cypermethrin	•	100.00	93.66	60 - 140
Daminozide	•	100.00	118.55	60 - 140
Diazinon	•	100.00	116.08	60 - 140
Dichlorvos	•	100.00	107.96	60 - 140
Dimethoate	•	100.00	106.61	60 - 140
Ethoprophos	•	100.00	133.41	60 - 140
Etofenprox	•	100.00	103.98	60 - 140
Etoxazole	•	100.00	101.79	60 - 140
Fenoxycarb	•	100.00	111.04	60 - 140
Fenpyroximate	•	100.00	112.68	60 - 140
Fipronil	•	100.00	83.80	60 - 140
Flonicamid	•	100.00	101.33	60 - 140
Fludioxonil	•	100.00	97.10	60 - 140
Hexythiazox	•	100.00	101.05	60 - 140
Imazalil	•	100.00	99.19	60 - 140
Imidacloprid	•	100.00	106.26	60 - 140
Kresoxim-methyl	•	100.00	133.32	60 - 140

Continued on next page...

Report: Quality Check

Pesticide Analysis

Quality Control Detail

Pesticide Name	LCS	Expected Recovery (%)	Actual Recovery (%)	Pass Criteria (%)
Malathion	•	100.00	113.33	60 - 140
Metalaxyl	•	100.00	116.34	60 - 140
Methiocarb	•	100.00	107.05	60 - 140
Methomyl	•	100.00	102.97	60 - 140
Methyl-Parathion	•	100.00	111.04	60 - 140
MGK-264 I	•	100.00	106.85	60 - 140
MGK-264 II	•	100.00	70.46	60 - 140
Myclobutanil	•	100.00	109.31	60 - 140
Naled	•	100.00	115.14	60 - 140
Oxamyl	•	100.00	102.46	60 - 140
Paclobutrazol	•	100.00	126.26	60 - 140
Permethrin - trans	•	100.00	96.98	60 - 140
Permethrin - cis	•	100.00	106.30	60 - 140
Phosmet	•	100.00	104.52	60 - 140
Piperonyl butoxide	•	100.00	97.89	60 - 140
Prallethrin	•	100.00	105.32	60 - 140
Propiconazole	•	100.00	114.28	60 - 140
Propoxur	•	100.00	103.05	60 - 140
Pyrethrin - Cinerin	•	100.00	95.66	60 - 140
Pyrethrin - Jasmolin	•	100.00	100.11	60 - 140
Pyrethrin - Pyrethrins	•	100.00	78.52	60 - 140
Pyridaben	•	100.00	115.90	60 - 140
Spinosyn A	•	100.00	139.61	60 - 140
Spinosyn D	•	100.00	112.51	60 - 140
Spiromesifen	•	100.00	121.40	60 - 140
Spirotetramat	•	100.00	117.36	60 - 140
Spiroxamine	•	100.00	110.06	60 - 140
Tebuconazole	•	100.00	128.10	60 - 140
Thiacloprid	•	100.00	107.68	60 - 140
Thiamethoxam	•	100.00	109.43	60 - 140
Trifloxystrobin	•	100.00	114.50	61 - 140

Definitions

- Limit of Quantitation (LOQ) : The minimum level, concentration, or quantity of a target analyte that can be reported with a specific degree of confidence.
- Method Blank (MB) : A quality control sample that is free of the analyte being measured.
- Laboratory Control Sample (LCS) : A quality control sample with a known amount of the analyte used to demonstrate accuracy.
- Field Duplicate : A second sample collected in the field using the same sampling method as the primary sample.
- Action Limit : Analyte levels set by the state of Oregon (OAR 333-007) indicating that follow-up action is necessary.
- ppm : parts per million, equivalent to 1 µg/g and 1 µg/L or 0.001 mg/g and 0.001 mg/L
- COA : Certificate of Analysis.
- Report Flag (B) : Blank contamination - The analyte was detected above one-half the reporting limit in an associated blank.
- Report Flag (E) : Compound tested above the upper limit of quantitation.
- Report Flag (Q) : One or more quality control criteria (for example, LCS recovery, surrogate spike recovery) failed.

Calculations

- Cannabinoid Potency :
$$\text{Wet WT\%} = (\text{Exported concentration ppm}) \times (\text{Dilution}) \times (\text{Extraction Vol./Wet wt mg}) \times 100$$
$$\text{Total THC\%} = (\% \text{THCA}) \times 0.877 + (\% \text{THC})$$
$$\text{Total CBD\%} = (\% \text{CBDA}) \times 0.877 + (\% \text{CBD})$$
$$\text{Total THC (Dry WT)\%} = \% \text{ total THC(wet)} / [1 - (\% \text{moisture}/100)]$$
$$\text{Total CBD (Dry WT)\%} = \% \text{ total CBD(wet)} / [1 - (\% \text{moisture}/100)]$$
- Percentage Recovery :
$$\% \text{ Rec.} = [(\text{Amount measured}) / (\text{Known amount})] \times 100$$

Disclaimers

- Disposal : All marijuana and hemp products received by PREE will be disposed of following the OLCC's rules for Marijuana Waste Management, regardless of product type, unless PREE is given specific disposal instructions for a product based on test results from state regulatory agencies.

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A4493-02

FREE Labs

010-10087092BDA

Sample ID: P210784-02 METRC Batch #:

Matrix: Extract/Concentrate

Date Sampled: 08/30/21 09:00

Date Accepted: 08/30/21

Batch ID:

Batch Size:

Sampling Method/SOP: SOP.T.20.010

Residual Solvents

Analyte	LOQ	Action Level	Result	Units
Butanes	250	5000 ³	< LOQ	ppm
n-Butane	250	5000	< LOQ	ppm
iso-Butane	250	5000	< LOQ	ppm
Hexanes	174	290 ⁴	< LOQ	ppm
n-Hexane	174	290	< LOQ	ppm
2-Methylpentane	174	290	< LOQ	ppm
3-Methylpentane	174	290	< LOQ	ppm
2,2-Dimethylbutane	174	290	< LOQ	ppm
2,3-Dimethylbutane	174	290	< LOQ	ppm
Pentanes	1400	5000 ⁵	< LOQ	ppm
n-Pentane	1400	5000	< LOQ	ppm
iso-Pentane	1400	5000	< LOQ	ppm
Neopentane	250	5000	< LOQ	ppm
Xylenes	1302	2170	< LOQ	ppm
1,2-Dimethylbenzene	1302	2170	< LOQ	ppm
1,3-Dimethylbenzene	1302	2170	< LOQ	ppm
1,4-Dimethylbenzene	1302	2170	< LOQ	ppm
Xylenes MP	1302	2170	< LOQ	ppm
Ethyl benzene	1302	NA	< LOQ	ppm
2-Propanol (IPA)	1400	5000	< LOQ	ppm
Acetone	1400	5000	< LOQ	ppm
Acetonitrile	246	410	< LOQ	ppm
Benzene	1.2	2	< LOQ	ppm
Methanol	1000	3000	< LOQ	ppm
Propane	250	5000	< LOQ	ppm
Toluene	534	890	< LOQ	ppm
Dichloromethane	360	600	< LOQ	ppm
1,4-Dioxane	228	380	< LOQ	ppm
2-Butanol	1400	5000	< LOQ	ppm
2-Ethoxyethanol	96	160	< LOQ	ppm
Cumene	42	70	< LOQ	ppm
Cyclohexane	2278	3880	< LOQ	ppm
Ethyl acetate	1400	5000	< LOQ	ppm
Ethyl ether	1400	5000	< LOQ	ppm
Ethylene glycol	558	620	< LOQ	ppm
Ethylene oxide	30	50	< LOQ	ppm
Heptane	1400	5000	2000.394	ppm
Isopropyl acetate	1400	5000	< LOQ	ppm
Tetrahydrofuran	432	720	< LOQ	ppm
Ethanol	1400	NA ⁷	< LOQ	ppm
hexane, 3-methyl	NA	TIC	NA	
Water	NA	TIC	NA	

Date/Time Extracted: 08/31/21 10:54

Date/Time Analyzed: 09/01/21 10:22

Analysis Method/SOP: SOP.T.40.031

3 - Total butanes are calculated as sum of n-butanes (CAS# 106-97-8) and iso-butane (CAS# 75-28-5)

4 - Total hexanes are calculated as sum of n-hexane (CAS# 110-54-3), 2-methylpentane (CAS# 107-83-5), 3-methylpentane (CAS# 96-14-0), 2,2-dimethylbutane (CAS# 75-83-2), 2,3-dimethylbutane (CAS# 79-29-8)

5 - Total pentanes are calculated as sum of n-pentane (CAS# 109-66-0), iso-pentane (CAS# 78-78-4), and neo-pentane (CAS# 463-82-1)

6 - Total xylenes are calculated as 1,2-dimethylbenzene (CAS# 95-47-6), 1,3-dimethylbenzene (CAS# 106-42-3), and 1-4-dimethylbenzene (CAS# 106-42-3)

7 - Ethanol is not regulated under OAR-333-007-0410.

TIC - Tentatively Identified Compound not regulated under OAR-333-007-0410

Results above the action level fail Oregon state testing requirements and will be highlighted **RED**. LOQ=Limit of Quantitation; PPM=Parts per million; ND=Not detected; NT=Not tested; AC=Above calibration range. PASS/FAIL status based on OAR 333-007.



Kawai Medeiros
Laboratory Manager - 9/1/2021

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Quality Control

Batch: P21H102 - SOP.T.40.031 Solvents

Blank(P21H102-BLK1)			Extracted: 08/31/21 10:54		Analyzed: 09/01/21 10:22		
Analyte	Result	LOQ	Recovery Limits	Analyte	Result	LOQ	Recovery Limits
Butanes	< LOQ	250 (ppm)	< LOQ	n-Butane	< LOQ	250 (ppm)	< LOQ
iso-Butane	< LOQ	250 (ppm)	< LOQ	Hexanes	< LOQ	174 (ppm)	< LOQ
n-Hexane	< LOQ	174 (ppm)	< LOQ	2-Methylpentane	< LOQ	174 (ppm)	< LOQ
3-Methylpentane	< LOQ	174 (ppm)	< LOQ	2,2-Dimethylbutane	< LOQ	174 (ppm)	< LOQ
2,3-Dimethylbutane	< LOQ	174 (ppm)	< LOQ	Pentanes	< LOQ	1400 (ppm)	< LOQ
n-Pentane	< LOQ	1400 (ppm)	< LOQ	iso-Pentane	< LOQ	1400 (ppm)	< LOQ
Neopentane	< LOQ	250 (ppm)	< LOQ	Xylenes	< LOQ	1302 (ppm)	< LOQ
1,2-Dimethylbenzene	< LOQ	1302 (ppm)	< LOQ	1,3-Dimethylbenzene	< LOQ	1302 (ppm)	< LOQ
1,4-Dimethylbenzene	< LOQ	1302 (ppm)	< LOQ	Xylenes MP	< LOQ	1302 (ppm)	< LOQ
Ethyl benzene	< LOQ	1302 (ppm)	< LOQ	2-Propanol (IPA)	< LOQ	1400 (ppm)	< LOQ
Acetone	< LOQ	1400 (ppm)	< LOQ	Acetonitrile	< LOQ	246 (ppm)	< LOQ
Benzene	< LOQ	1.2 (ppm)	< LOQ	Methanol	< LOQ	1000 (ppm)	< LOQ
Propane	< LOQ	250 (ppm)	< LOQ	Toluene	< LOQ	534 (ppm)	< LOQ
Dichloromethane	< LOQ	360 (ppm)	< LOQ	1,4-Dioxane	< LOQ	228 (ppm)	< LOQ
2-Butanol	< LOQ	1400 (ppm)	< LOQ	2-Ethoxyethanol	< LOQ	96 (ppm)	< LOQ
Cumene	< LOQ	42 (ppm)	< LOQ	Cyclohexane	< LOQ	2278 (ppm)	< LOQ
Ethyl acetate	< LOQ	1400 (ppm)	< LOQ	Ethyl ether	< LOQ	1400 (ppm)	< LOQ
Ethylene glycol	< LOQ	558 (ppm)	< LOQ	Ethylene oxide	< LOQ	30 (ppm)	< LOQ
Heptane	< LOQ	1400 (ppm)	< LOQ	Isopropyl acetate	< LOQ	1400 (ppm)	< LOQ
Tetrahydrofuran	< LOQ	432 (ppm)	< LOQ	Ethanol	< LOQ	1400 (ppm)	< LOQ

LCS(P21H102-BS1)			Extracted: 08/31/21 10:54		Analyzed: 09/01/21 10:22		
Analyte	% Recovery	LOQ	Recovery Limits	Analyte	% Recovery	LOQ	Recovery Limits
Butanes	56.0	(ppm)	0-200	n-Butane	65.7	(ppm)	50-150
iso-Butane	46.4	(ppm)	50-150	Hexanes	83.8	(ppm)	0-200
n-Hexane	86.1	(ppm)	70-130	2-Methylpentane	83.5	(ppm)	70-130
3-Methylpentane	85.3	(ppm)	70-130	2,2-Dimethylbutane	89.2	(ppm)	70-130
2,3-Dimethylbutane	78.9	(ppm)	70-130	Pentanes	102	(ppm)	0-200
n-Pentane	86.4	(ppm)	70-130	iso-Pentane	76.3	(ppm)	70-130
Neopentane	88.4	(ppm)	50-150	Xylenes	87.6	(ppm)	0-200
1,2-Dimethylbenzene	86.7	(ppm)	70-130	1,3-Dimethylbenzene	89.0	(ppm)	70-130
1,4-Dimethylbenzene	89.2	(ppm)	70-130	Xylenes MP	87.1	(ppm)	0-200
Ethyl benzene	87.1	(ppm)	70-130	2-Propanol (IPA)	97.8	(ppm)	70-130
Acetone	89.3	(ppm)	70-130	Acetonitrile	87.9	(ppm)	70-130
Benzene	92.3	(ppm)	70-130	Methanol	104	(ppm)	70-130
Propane	35.1	(ppm)	50-150	Toluene	90.7	(ppm)	70-130
Dichloromethane	104	(ppm)	70-130	1,4-Dioxane	94.9	(ppm)	70-130



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Quality Control

Batch: P21H102 - SOP.T.40.031 Solvents (Continued)

LCS(P21H102-BS1)			Extracted: 08/31/21 10:54		Analyzed: 09/01/21 10:22		
Analyte	% Recovery	LOQ	Recovery Limits	Analyte	% Recovery	LOQ	Recovery Limits
2-Butanol	97.8	(ppm)	70-130	2-Ethoxyethanol	98.2	(ppm)	70-130
Cumene	101	(ppm)	50-150	Cyclohexane	91.2	(ppm)	70-130
Ethyl acetate	89.3	(ppm)	70-130	Ethyl ether	94.0	(ppm)	70-130
Ethylene glycol	78.2	(ppm)	70-130	Ethylene oxide	81.7	(ppm)	50-150
Heptane	88.4	(ppm)	70-130	Isopropyl acetate	92.7	(ppm)	70-130
Tetrahydrofuran	93.3	(ppm)	70-130				



Kawai Medeiros
 Laboratory Manager - 9/1/2021