

Report: COA Evaluation Summary

OLCC License No. 10087092BDA | ORELAP ID. 4147

545 SW 2nd Street, Corvallis OR, 97333 | 541.257.5002 | services@preelab.com | Preelab.com

PRE
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For OLCC/OHA Compliance Purposes.

Product Description

Client: **Enveed**

Product Name: **08.12.21-CBD-Isolate B#8419 - Dup
GVB I - CBD**

Process Date: 2021-08-12

Retest Date: 2023-08-11

Matrix: Hemp Concentrate

Metrc Source ID: n/a

Metrc Package ID: n/a

License Number: n/a

Date Collected: 2021-08-12

Date Received: 2021-08-12

Report Date: 2021-08-17

Report ID: A4359-02

Tests Requested: Cannabinoid Potency Analysis
Pesticide Analysis
Residual Solvent Analysis

Evaluation Summary

Moisture Analysis

Test Not Required

Cannabinoid Potency Analysis

Total THC *

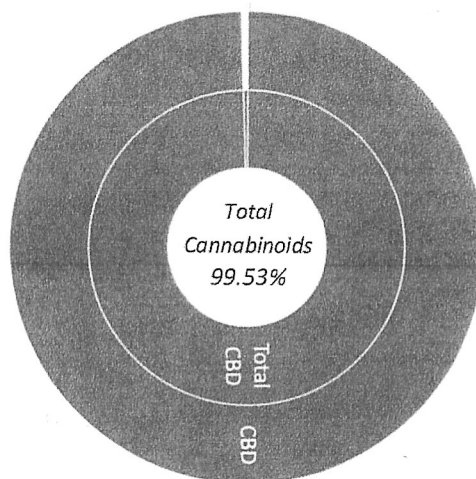
< LOQ

Total CBD *

99.10 %

< LOQ

991.0 mg/g



Abrv.	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	99.10 %	991.0 mg/g
CBGA	< LOQ	< LOQ
CBG	< LOQ	< LOQ
CBDVA	< LOQ	< LOQ
CBDV	0.43 %	4.3 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 333-064-6100

Report: Case Narrative

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This report presents the analytical findings for the sample collected on 2021-08-12 by using sampling plan A4359 and received by PREE Laboratory on 2021-08-12. The sample was assigned a laboratory ID of A4359-02. The results in this report only apply to sample A4359-02.

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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.

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Moisture Analysis

Evaluation Detail

Moisture Analysis	Test Not Requested/Required
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Cannabinoid Potency Analysis

Evaluation Detail

Product Name: 08.12.21 - CBD-Isolate B#8419 - Dup

Analysis Date: 2021-08-16

Testing Batch ID: V1648,1647,1645,1644,1643,1642,1641,1640

Testing Method: LSOP #303 Cannabinoid Quantification

Cannabinoid Potency Analysis	Compound	Abrv.	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 %
99.10 %	Cannabidiol	CBD	99.10 %	991.0	0.2 %
991.0 mg/g	Cannabigerolic acid	CBGA	< LOQ	< LOQ	0.2 %
	Cannabigerol	CBG	< LOQ	< LOQ	0.2 %
	Cannabidivarinic acid	CBDVA	< LOQ	< LOQ	0.2 %
	Cannabidivarin	CBDV	0.43 %	4.3	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 - OAP 303-064-01.X

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Pesticide Analysis

Evaluation Detail

Product Name: **08.12.21 - CBD-Isolate B#8419 - Dup**

Analysis Date: 2021-08-13

Testing Batch ID: V1643,1642,1640,1639,1638,1527,1526

Testing Method: LSOP #307 Pesticides by LCMS/MS

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	1.00	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
Etoxazole	< 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

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Evaluation Detail

Pesticide Name	Tested Value (ppm)	Pass Criteria (ppm)	LOQ (ppm)	Status Pass/Unsatisfactory
Malathion	< LOQ	0.20	0.04	Pass
Metaxyl	< 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	0.04	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

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Moisture Analysis

Quality Control Detail

Moisture Analysis |

Cannabinoid Potency Analysis

Quality Control Detail

Analysis Date:	2021-08-16	Cannabinoid Potency Analysis		MB	LCS	Expected Value (%)	Tested Value (%)	Pass Criteria
Testing Batch ID:	V1648,1647,1645,1644,1643,1642,1641,1640	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%	114.2%	80-120%
		Delta9 Tetrahydro-cannabinol			●	100.0%	111.9%	80-120%
		Cannabidiolic acid			●	100.0%	111.6%	80-120%
		Cannabidiol			●	100.0%	112.5%	80-120%

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Pesticide Analysis

Quality Control Detail

Analysis Date: 2021-08-13

Testing Batch ID: V1643,1642,1640,1639,1638,1527,1526

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	< 0.5	< 0.5	< 0.5
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

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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
Paclobutrazol	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	< 0.02	< 0.02	< 0.02
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

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Pesticide Analysis

Quality Control Detail

Pesticide Name	LCS	Expected Recovery (%)	Actual Recovery (%)	Pass Criteria (%)
Abamectin	•	100.00	96.63	60 - 140
Acephate	•	100.00	93.41	60 - 140
Acequinocyl	•	100.00	108.80	60 - 140
Acetamiprid	•	100.00	94.36	60 - 140
Aldicarb	•	100.00	98.27	60 - 140
Azoxystrobin	•	100.00	98.45	60 - 140
Bifenazate	•	100.00	113.85	60 - 140
Bifenthrin	•	100.00	98.23	60 - 140
Boscalid	•	100.00	96.55	60 - 140
Carbaryl	•	100.00	92.22	60 - 140
Carbofuran	•	100.00	100.67	60 - 140
Chlorantraniliprole	•	100.00	94.77	60 - 140
Chlorfenapyr	•	100.00	128.21	60 - 140
Chlorpyrifos	•	100.00	104.32	60 - 140
Clofentezine	•	100.00	90.22	60 - 140
Cyfluthrin	•	100.00	89.87	60 - 140
Cypermethrin	•	100.00	102.97	60 - 140
Daminozide	•	100.00	87.88	60 - 140
Diazinon	•	100.00	87.66	60 - 140
Dichlorvos	•	100.00	100.80	60 - 140
Dimethoate	•	100.00	101.50	60 - 140
Ethoprophos	•	100.00	95.11	60 - 140
Etofenprox	•	100.00	94.40	60 - 140
Etoxazole	•	100.00	113.21	60 - 140
Fenoxycarb	•	100.00	93.79	60 - 140
Fenpyroximate	•	100.00	88.87	60 - 140
Fipronil	•	100.00	107.74	60 - 140
Flonicamid	•	100.00	101.47	60 - 140
Fludioxonil	•	100.00	85.73	60 - 140
Hexythiazox	•	100.00	93.70	60 - 140
Imazalil	•	100.00	90.62	60 - 140
Imidacloprid	•	100.00	95.31	60 - 140
Kresoxim-methyl	•	100.00	92.88	60 - 140

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Pesticide Analysis

Quality Control Detail

Pesticide Name	LCS	Expected Recovery (%)	Actual Recovery (%)	Pass Criteria (%)
Malathion	•	100.00	101.83	60 - 140
Metalaxyl	•	100.00	99.49	60 - 140
Methiocarb	•	100.00	84.09	60 - 140
Methomyl	•	100.00	95.20	60 - 140
Methyl-Parathion	•	100.00	108.10	60 - 140
MGK-264 I	•	100.00	91.27	60 - 140
MGK-264 II	•	100.00	97.25	60 - 140
Myclobutanil	•	100.00	94.21	60 - 140
Naled	•	100.00	102.24	60 - 140
Oxamyl	•	100.00	96.34	60 - 140
Paclobutrazol	•	100.00	98.87	60 - 140
Permethrin - trans	•	100.00	108.66	60 - 140
Permethrin - cis	•	100.00	96.84	60 - 140
Phosmet	•	100.00	104.70	60 - 140
Piperonyl butoxide	•	100.00	108.34	60 - 140
Prallethrin	•	100.00	96.57	60 - 140
Propiconazole	•	100.00	96.00	60 - 140
Propoxur	•	100.00	93.90	60 - 140
Pyrethrin - Cinerin	•	100.00	113.13	60 - 140
Pyrethrin - Jasmolin	•	100.00	101.82	60 - 140
Pyrethrin - Pyrethrins	•	100.00	104.53	60 - 140
Pyridaben	•	100.00	85.02	60 - 140
Spinosyn A	•	100.00	93.81	60 - 140
Spinosyn D	•	100.00	104.74	60 - 140
Spiromesifen	•	100.00	114.57	60 - 140
Spirotetramat	•	100.00	102.57	60 - 140
Spiroxamine	•	100.00	102.38	60 - 140
Tebuconazole	•	100.00	90.40	60 - 140
Thiacloprid	•	100.00	97.18	60 - 140
Thiamethoxam	•	100.00	95.26	60 - 140
Trifloxystrobin	•	100.00	99.53	61 - 140

Report: Definition

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.