CERTIFICATE OF ANALYSIS

SAMPLE NAME: MYADERM ADVANCED RX10 CBD CREAM

SAMPLE CODE: HEM-230720-015

CLIENT: MYADERM

BATCH RESULT: PASS

cambium analytica

1230 Woodmere Ave
Traverse City, MI 49686
231.252.3669
cambiumanalytica.com

MATRIX NAME:
Hemp - Topical

SAMPLE TYPE:
Quality Assurance

RECEIVED DATE:
Friday, Jul 28, 2023

PUBLISHED DATE:
Tuesday, Aug 1, 2023

BATCH CODE:
1222

BATCH SIZE:
30kg

SAMPLE SIZE:
3g

AVERAGE UNIT WEIGHT:
50g

POT

LAB-TM-001
Potency Analysis by
HPLC-DAD

RESULTS REVIEWED BY: Leslie Varela
Laboratory Director
Cambium Analytica
Tuesday, Aug 1, 2023

RESULTS REVIEWED BY: Douglas Smith
VP - Scientific Operations
Cambium Analytica
Tuesday, Aug 1, 2023

LAB-TM-001 - DETERMINATION OF POTENCY BY HPLC-DAD

POT-HEM-230720-015-02 - FRIDAY, JUL 28, 2023

ISO 17025

ANALYTE	VALUE	VALUE (PER SERVING)	ACTION LIMIT	LOD	LOQ	STATUS
Total Cannabinoids	10.32 %	516.2 mg	N/A	N/A	N/A	N/A
CBD	10.29 %	514.6 mg	N/A	0.6432 ug/g	5.401 ug/g	N/A
Total CBD	10.29 %	514.6 mg	N/A	N/A	N/A	N/A
CBDV	0.0314 %	1.569 mg	N/A	0.0919 ug/g	0.4418 ug/g	N/A
CBC	<LOD	0 mg	N/A	0.4372 ug/g	4.843 ug/g	N/A
CBDA	<LOD	0 mg	N/A	0.0886 ug/g	0.2949 ug/g	N/A
CBG	<LOD	0 mg	N/A	0.2073 ug/g	0.8539 ug/g	N/A
CBGA	<LOD	0 mg	N/A	0.4596 ug/g	4.8149 ug/g	N/A
CBN	<LOD	0 mg	N/A	0.3561 ug/g	4.3163 ug/g	N/A
Delta-8 THC	<LOD	0 mg	N/A	0.4043 ug/g	4.5669 ug/g	N/A
Delta-8 THCV	0 %	0 mg	N/A	N/A	N/A	N/A
Delta-9 THC	<LOD	0 mg	N/A	0.4945 ug/g	1.516 ug/g	N/A
Delta-9 THCV	0 %	0 mg	N/A	N/A	N/A	N/A
THCA	<LOD	0 mg	N/A	0.4497 ug/g	4.9472 ug/g	N/A
Total THC	ND	N/A	N/A	N/A	N/A	N/A
Total THCV	ND	N/A	N/A	0.5628 ug/g	5.071 ug/g	N/A

Report: COA Evaluation Summary

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Product Description

Client: **GVB Oregon**

Product Name: **CBD Iso GVL-TST336**

Matrix: Hemp Concentrate
Metrc Source ID: n/a
Metrc Package ID: n/a
License Number:
Date Collected: 2022-09-30
Date Received: 2022-09-30
Report Date: 2022-10-03
Report ID: A7961-01
Tests Requested: Cannabinoid Potency Analysis
Pesticide Analysis
Mycotoxin Analysis
Residual Solvent Analysis

Evaluation Summary

Moisture Analysis	Test Not Required

Total THC *

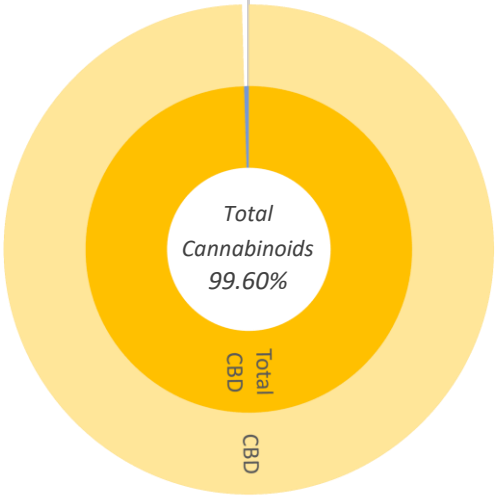
< LOQ

< LOQ

Total CBD *

99.14 %

991.4 mg/g



Cannabinoid Potency Analysis	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	99.14 %	991.4 mg/g
	CBGA	< LOQ	< LOQ
	CBG	< LOQ	< LOQ
	CBDVA	< LOQ	< LOQ
	CBDV	0.47 %	4.7 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.

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 2022-09-30 by Bharath Pogula and received by PREE Laboratory on 2022-09-30. The sample was assigned a laboratory ID of A7961-01. The results in this report only apply to sample A7961-01.

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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.

Newkirk, Carson | Laboratory Manager
PREE South: 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

Product Name: **CBD Iso GVL-TST336**

Analysis Date: 2022-10-02

Testing Batch ID: POR221002C

Testing Method: *LSOP #303 Cannabinoid Quantification*

Newkirk, Carson | Laboratory

V, CBGA,CBG, CBDVA, CBDV, CBL, CBC, AP and therefore are not accredited tests.

Evaluation Detail

Cannabinoid Potency Analysis	Compound	Abrv.	Dry Wt. (%)	Dry Wt. (mg/g)	RL (%)
Total THC *	Tetrahydro-cannabinolic acid	THCA	< LOQ	< LOQ	0.15
< LOQ	Delta9 Tetrahydro-cannabinol	Δ-9-THC	< LOQ	< LOQ	0.15
< LOQ	Delta8 Tetrahydro-cannabinol	Δ-8-THC	< LOQ	< LOQ	0.15
	Tetrahydrocannabivarin	THCV	< LOQ	< LOQ	0.15
Total CBD *	Cannabidiolic acid	CBDA	< LOQ	< LOQ	0.15
99.14 %	Cannabidiol	CBD	99.14 %	991.4	0.15
991.4 mg/g	Cannabigerolic acid	CBGA	< LOQ	< LOQ	0.15
	Cannabigerol	CBG	< LOQ	< LOQ	0.15
	Cannabidivarinic acid	CBDVA	< LOQ	< LOQ	0.15
	Cannabidivarin	CBDV	0.47 %	4.7	0.15
	Cannabinol	CBN	< LOQ	< LOQ	0.15
	Cannabicyclol	CBL	< LOQ	< LOQ	0.15
	Cannabichromene	CBC	< LOQ	< LOQ	0.15

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

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Pesticide Analysis

Product Name: **CBD Iso GVL-TST336**

Analysis Date: 2022-10-01

Testing Batch ID: PEE221001B

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	0.10	**Pass**
Acephate	**< LOQ**	0.40	0.02	**Pass**
Acequinocyl	**< LOQ**	2.00	0.10	**Pass**
Acetamiprid	**< LOQ**	0.20	0.02	**Pass**
Aldicarb	**< LOQ**	0.40	0.02	**Pass**
Azoxystrobin	**< LOQ**	0.20	0.02	**Pass**
Bifenazate	**< LOQ**	0.20	0.02	**Pass**
Bifenthrin	**< LOQ**	0.20	0.10	**Pass**
Boscalid	**< LOQ**	0.40	0.02	**Pass**
Carbaryl	**< LOQ**	0.20	0.02	**Pass**
Carbofuran	**< LOQ**	0.20	0.10	**Pass**
Chlorantraniliprole	**< LOQ**	0.20	0.02	**Pass**
Chlorfenapyr	**< LOQ**	1.00	0.50	**Pass**
Chlorpyrifos	**< LOQ**	0.20	0.02	**Pass**
Clofentezine	**< LOQ**	0.20	0.10	**Pass**
Cyfluthrin	**< LOQ**	1.00	0.50	**Pass**
Cypermethrin	**< LOQ**	1.00	0.50	**Pass**
Daminozide	**< LOQ**	1.00	0.10	**Pass**
Diazinon	**< LOQ**	0.20	0.02	**Pass**
Dichlorvos	**< LOQ**	1.00	0.10	**Pass**
Dimethoate	**< LOQ**	0.20	0.02	**Pass**
Ethoprophos	**< LOQ**	0.20	0.02	**Pass**
Etofenprox	**< LOQ**	0.40	0.10	**Pass**
Etoxazole	**< LOQ**	0.20	0.02	**Pass**
Fenoxycarb	**< LOQ**	0.20	0.02	**Pass**
Fenpyroximate	**< LOQ**	0.40	0.10	**Pass**
Fipronil	**< LOQ**	0.40	0.02	**Pass**
Flonicamid	**< LOQ**	1.00	0.02	**Pass**
Fludioxonil	**< LOQ**	0.40	0.10	**Pass**
Hexythiazox	**< LOQ**	1.00	0.02	**Pass**
Imazalil	**< LOQ**	0.20	0.02	**Pass**
Imidacloprid	**< LOQ**	0.40	0.02	**Pass**
Kresoxim-methyl	**< LOQ**	0.40	0.10	**Pass**

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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	0.02	**Pass**
Metalaxyl	**< LOQ**	0.20	0.02	**Pass**
Methiocarb	**< LOQ**	0.20	0.02	**Pass**
Methomyl	**< LOQ**	0.40	0.02	**Pass**
Methyl-Parathion	**< LOQ**	0.20	0.10	**Pass**
MGK-264 Total	**< LOQ**	0.20	0.10	**Pass**
Myclobutanil	**< LOQ**	0.20	0.10	**Pass**
Naled	**< LOQ**	0.50	0.02	**Pass**
Oxamyl	**< LOQ**	1.00	0.02	**Pass**
Paclobutrazol	**< LOQ**	0.40	0.02	**Pass**
Permethrins	**< LOQ**	0.20	0.10	**Pass**
Phosmet	**< LOQ**	0.20	0.02	**Pass**
Piperonyl butoxide	**< LOQ**	2.00	0.02	**Pass**
Prallethrin	**< LOQ**	0.20	0.10	**Pass**
Propiconazole	**< LOQ**	0.40	0.10	**Pass**
Propoxur	**< LOQ**	0.20	0.02	**Pass**
Pyrethrins	**< LOQ**	1.00	0.50	**Pass**
Pyridaben	**< LOQ**	0.20	0.02	**Pass**
Spinosad	**< LOQ**	0.20	0.10	**Pass**
Spiromesifen	**< LOQ**	0.20	0.10	**Pass**
Spirotetramat	**< LOQ**	0.20	0.02	**Pass**
Spiroxamine	**< LOQ**	0.40	0.10	**Pass**
Tebuconazole	**< LOQ**	0.40	0.02	**Pass**
Thiacloprid	**< LOQ**	0.20	0.02	**Pass**
Thiamethoxam	**< LOQ**	0.20	0.02	**Pass**
Trifloxystrobin	**< LOQ**	0.20	0.02	**Pass**

Report: Quality Check

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Moisture Analysis

Quality Control Detail

Moisture Analysis	

Cannabinoid Potency Analysis

Analysis Date: 2022-10-02

Testing Batch ID: POR221002C

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

Quality Control Detail

Cannabinoid Potency Analysis	MB	LCS	Expected Value (%)	Tested Value (%)	Pass Criteria
Tetrahydro-cannabinolic acid	o		< 0.1%	< 0.1%	< 0.1%
Delta9 Tetrahydro-cannabinol	o		< 0.1%	< 0.1%	< 0.1%
Delta8 Tetrahydro-cannabinol	o		< 0.1%	< 0.1%	< 0.1%
Cannabidiolic acid	o		< 0.1%	< 0.1%	< 0.1%
Cannabidiol	o		< 0.1%	< 0.1%	< 0.1%
Tetrahydro-cannabinolic acid		●	100.0%	96.4%	± 10%
Delta9 Tetrahydro-cannabinol		●	100.0%	99.8%	± 10%
Delta8 Tetrahydro-cannabinol		●	100.0%	97.0%	± 10%
Cannabidiolic acid		●	100.0%	96.9%	± 10%
Cannabidiol		●	100.0%	98.0%	± 10%

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Pesticide Analysis

Analysis Date: 2022-10-01

Testing Batch ID: PEE221001B

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	< 0.1	< 0.1	< 0.1
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 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
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	< 0.1	< 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	< 0.1	< 0.1	< 0.1
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…

Pesticide Analysis

Quality Control Detail

Pesticide Name	LCS	Expected Recovery (%)	Actual Recovery (%)	Pass Criteria (%)
Abamectin	•	100.00	97.70	50 - 150
Acephate	•	100.00	86.90	60 - 120
Acequinocyl	•	100.00	137.47	40 - 160
Acetamiprid	•	100.00	87.19	60 - 120
Aldicarb	•	100.00	92.47	60 - 120
Azoxystrobin	•	100.00	94.19	60 - 120
Bifenazate	•	100.00	95.06	60 - 120
Bifenthrin	•	100.00	99.15	50 - 150
Boscalid	•	100.00	95.11	60 - 120
Carbaryl	•	100.00	81.59	60 - 120
Carbofuran	•	100.00	80.86	60 - 120
Chlorantraniliprole	•	100.00	85.39	60 - 120
Chlorfenapyr	•	100.00	100.74	60 - 120
Chlorpyrifos	•	100.00	94.39	60 - 120
Clofentezine	•	100.00	79.95	60 - 120
Cyfluthrin	•	100.00	97.59	50 - 150
Cypermethrin	•	100.00	89.66	50 - 150
Daminozide	•	100.00	69.75	60 - 120
Diazinon	•	100.00	93.62	60 - 120
Dichlorvos	•	100.00	77.42	60 - 120
Dimethoate	•	100.00	89.53	60 - 120
Ethoprophos	•	100.00	90.65	60 - 120
Etofenprox	•	100.00	93.09	50 - 150
Etoxazole	•	100.00	91.58	60 - 120
Fenoxycarb	•	100.00	79.60	60 - 120
Fenpyroximate	•	100.00	102.77	60 - 120
Fipronil	•	100.00	95.00	60 - 120
Flonicamid	•	100.00	96.72	60 - 120
Fludioxonil	•	100.00	85.62	50 - 150
Hexythiazox	•	100.00	99.19	60 - 120
Imazalil	•	100.00	79.34	60 - 120
Imidacloprid	•	100.00	91.65	60 - 120
Kresoxim-methyl	•	100.00	92.31	60 - 120

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Pesticide Analysis

Quality Control Detail

Pesticide Name	LCS	Expected Recovery (%)	Actual Recovery (%)	Pass Criteria (%)
Malathion	●	100.00	96.23	60 - 120
Metalaxyl	●	100.00	92.90	60 - 120
Methiocarb	●	100.00	90.29	60 - 120
Methomyl	●	100.00	86.59	60 - 120
Methyl-Parathion	●	100.00	93.56	50 - 150
MGK-264 I	●	100.00	111.60	50 - 150
MGK-264 II	●	100.00	115.20	50 - 150
Myclobutanil	●	100.00	83.91	60 - 120
Naled	●	100.00	94.24	50 - 150
Oxamyl	●	100.00	86.12	60 - 120
Paclobutrazol	●	100.00	87.55	60 - 120
Permethrin - trans	●	100.00	75.88	50 - 150
Permethrin - cis	●	100.00	99.20	50 - 150
Phosmet	●	100.00	90.86	50 - 150
Piperonyl butoxide	●	100.00	100.19	60 - 120
Prallethrin	●	100.00	88.67	60 - 120
Propiconazole	●	100.00	87.18	60 - 120
Propoxur	●	100.00	84.57	60 - 120
Pyrethrin - Cinerin	●	100.00	74.60	60 - 120
Pyrethrin - Jasmolin	●	100.00	87.85	60 - 120
Pyrethrin - Pyrethrins	●	100.00	93.15	60 - 120
Pyridaben	●	100.00	95.38	50 - 150
Spinosyn A	●	100.00	69.84	50 - 150
Spinosyn D	●	100.00	72.83	50 - 150
Spiromesifen	●	100.00	76.55	60 - 120
Spirotetramat	●	100.00	93.85	60 - 120
Spiroxamine	●	100.00	89.25	60 - 120
Tebuconazole	●	100.00	87.35	60 - 120
Thiacloprid	●	100.00	94.17	60 - 120
Thiamethoxam	●	100.00	91.63	60 - 120
Trifloxystrobin	●	100.00	86.22	60 - 120

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 (A) : Compound tested over 100% or 1000 mg/g. The test result is within the method uncertainty and instrument result is not above the upper limit of quantitation. Value will be adjusted down to 100% or 1000 mg/mg in the reporting process.
- 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 :

  Wet WT% = (Exported concentration ppm) x (Dilution) x (Extraction Vol./Wet wt mg) x 100

  Total THC% = (%THCA) x 0.877 + (%THC)

  Total CBD% = (%CBDA) x 0.877 + (%CBD)

  Total THC (Dry WT)% = % total THC(wet) / [1-(% moisture/100)]

  Total CBD (Dry WT)% = % total CBD(wet) / [1-(% moisture/100)]

- Percentage Recovery : % Rec. = [(Amount measured) / (Known amount)] * 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.

PREE LABORATORIES

Certificate of Analysis

PREE Laboratories - North
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503-954-2562 / OLCC 010-10219583711 / www.PREElab.com

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CBD ISO GVL-TST336

PREE Lab - South

010-10087092BDA

Sample ID: P220344-01 **METRC Batch #:**

Matrix: Extract/Concentrate

Date Sampled: NA

Date Accepted: 09/30/22

Batch ID:

Batch Size:

Sampling Method/SOP: Client

Residual Solvents

Analyte	LOQ	Action Level		Result	Units
Butanes	2500	5000	3	< LOQ	ppm
n-Butane	1250	5000		< LOQ	ppm
iso-Butane	1250	5000		< LOQ	ppm
Hexanes	145	290	4	< LOQ	ppm
n-Hexane	145	290		< LOQ	ppm
2-Methylpentane	145	290		< LOQ	ppm
3-Methylpentane	145	290		< LOQ	ppm
2,2-Dimethylbutane	145	290		< LOQ	ppm
2,3-Dimethylbutane	145	290		< LOQ	ppm
Pentanes	2500	5000	5	< LOQ	ppm
n-Pentane	833.33	5000		< LOQ	ppm
iso-Pentane	833.33	5000		< LOQ	ppm
Neopentane	833.33	5000		< LOQ	ppm
Xylenes	1085	2170		< LOQ	ppm
1,2-Dimethylbenzene	271.25	2170		< LOQ	ppm
1,3-Dimethylbenzene	271.25	2170		< LOQ	ppm
1,4-Dimethylbenzene	271.25	2170		< LOQ	ppm
Xylenes MP	1085	2170		< LOQ	ppm
Ethyl benzene	271.25	NA		< LOQ	ppm
2-Propanol (IPA)	2500	5000		< LOQ	ppm
Acetone	2500	5000		< LOQ	ppm
Acetonitrile	205	410		< LOQ	ppm
Benzene	1	2		< LOQ	ppm
Methanol	1500	3000		< LOQ	ppm
Propane	2500	5000		< LOQ	ppm
Toluene	445	890		< LOQ	ppm
Dichloromethane	300	600		< LOQ	ppm
1,4-Dioxane	190	380		< LOQ	ppm
2-Butanol	2500	5000		< LOQ	ppm
2-Ethoxyethanol	80	160		< LOQ	ppm
Cumene	35	70		< LOQ	ppm
Cyclohexane	1940	3880		< LOQ	ppm
Ethyl acetate	2500	5000		< LOQ	ppm
Ethyl ether	2500	5000		< LOQ	ppm
Ethylene glycol	310	620		< LOQ	ppm
Ethylene oxide	25	50		< LOQ	ppm
Heptane	2500	5000		< LOQ	ppm
Isopropyl acetate	2500	5000		< LOQ	ppm
Tetrahydrofuran	360	720		< LOQ	ppm
Ethanol	500	NA	7	< LOQ	ppm

Date/Time Extracted: 09/30/22 12:48

Date/Time Analyzed: 09/30/22 18:02

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
Lab Director - 10/3/2022

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Quality Control

Batch: P22I051 - SOP.T.40.031 Solvents

Blank(P22I051-BLK1) **Extracted:** 09/30/22 12:48 **Analyzed:** 09/30/22 15:08

Analyte	Result	LOQ	Recovery Limits	Analyte	Result	LOQ	Recovery Limits
Butanes	< LOQ	2500 (ppm)	< LOQ	n-Butane	< LOQ	1250 (ppm)	< LOQ
iso-Butane	< LOQ	1250 (ppm)	< LOQ	Hexanes	< LOQ	145 (ppm)	< LOQ
n-Hexane	< LOQ	145 (ppm)	< LOQ	2-Methylpentane	< LOQ	145 (ppm)	< LOQ
3-Methylpentane	< LOQ	145 (ppm)	< LOQ	2,2-Dimethylbutane	< LOQ	145 (ppm)	< LOQ
2,3-Dimethylbutane	< LOQ	145 (ppm)	< LOQ	Pentanes	< LOQ	2500 (ppm)	< LOQ
n-Pentane	< LOQ	833.33 (ppm)	< LOQ	iso-Pentane	< LOQ	833.33 (ppm)	< LOQ
Neopentane	< LOQ	833.33 (ppm)	< LOQ	Xylenes	< LOQ	1085 (ppm)	< LOQ
1,2-Dimethylbenzene	< LOQ	271.25 (ppm)	< LOQ	1,3-Dimethylbenzene	< LOQ	271.25 (ppm)	< LOQ
1,4-Dimethylbenzene	< LOQ	271.25 (ppm)	< LOQ	Xylenes MP	< LOQ	1085 (ppm)	< LOQ
Ethyl benzene	< LOQ	271.25 (ppm)	< LOQ	2-Propanol (IPA)	< LOQ	2500 (ppm)	< LOQ
Acetone	< LOQ	2500 (ppm)	< LOQ	Acetonitrile	< LOQ	205 (ppm)	< LOQ
Benzene	< LOQ	1 (ppm)	< LOQ	Methanol	< LOQ	1500 (ppm)	< LOQ
Propane	< LOQ	2500 (ppm)	< LOQ	Toluene	< LOQ	445 (ppm)	< LOQ
Dichloromethane	< LOQ	300 (ppm)	< LOQ	1,4-Dioxane	< LOQ	190 (ppm)	< LOQ
2-Butanol	< LOQ	2500 (ppm)	< LOQ	2-Ethoxyethanol	< LOQ	80 (ppm)	< LOQ
Cumene	< LOQ	35 (ppm)	< LOQ	Cyclohexane	< LOQ	1940 (ppm)	< LOQ
Ethyl acetate	< LOQ	2500 (ppm)	< LOQ	Ethyl ether	< LOQ	2500 (ppm)	< LOQ
Ethylene glycol	< LOQ	310 (ppm)	< LOQ	Ethylene oxide	< LOQ	25 (ppm)	< LOQ
Heptane	< LOQ	2500 (ppm)	< LOQ	Isopropyl acetate	< LOQ	2500 (ppm)	< LOQ
Tetrahydrofuran	< LOQ	360 (ppm)	< LOQ	Ethanol	< LOQ	500 (ppm)	< LOQ

LCS(P22I051-BS1) **Extracted:** 09/30/22 12:48 **Analyzed:** 09/30/22 15:37

Analyte	% Recovery	LOQ	Recovery Limits	Analyte	% Recovery	LOQ	Recovery Limits
Butanes	58.8	(ppm)	0-200	n-Butane	60.2	(ppm)	60-120
iso-Butane	57.4	(ppm)	60-120	Hexanes	89.0	(ppm)	0-200
n-Hexane	90.9	(ppm)	60-120	2-Methylpentane	89.1	(ppm)	60-120
3-Methylpentane	89.1	(ppm)	60-120	2,2-Dimethylbutane	88.4	(ppm)	60-120
2,3-Dimethylbutane	89.2	(ppm)	60-120	Pentanes	100	(ppm)	0-200
n-Pentane	85.6	(ppm)	60-120	iso-Pentane	84.1	(ppm)	60-120
Neopentane	65.2	(ppm)	60-120	Xylenes	79.3	(ppm)	60-120
1,2-Dimethylbenzene	78.0	(ppm)	60-120	1,3-Dimethylbenzene	80.4	(ppm)	60-120
1,4-Dimethylbenzene	80.4	(ppm)	60-120	Xylenes MP	79.2	(ppm)	0-200
Ethyl benzene	80.6	(ppm)	60-120	2-Propanol (IPA)	94.5	(ppm)	60-120
Acetone	91.9	(ppm)	60-120	Acetonitrile	90.7	(ppm)	60-120
Benzene	87.6	(ppm)	60-120	Methanol	90.6	(ppm)	60-120
Propane	45.1	(ppm)	60-120	Toluene	85.8	(ppm)	60-120
Dichloromethane	94.3	(ppm)	60-120	1,4-Dioxane	88.3	(ppm)	60-120

Kawai Medeiros
Lab Director - 10/3/2022

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Quality Control

Batch: P22I051 - SOP.T.40.031 Solvents (Continued)

LCS(P22I051-BS1) **Extracted:** 09/30/22 12:48 **Analyzed:** 09/30/22 15:37

Analyte	% Recovery	LOQ	Recovery Limits	Analyte	% Recovery	LOQ	Recovery Limits
2-Butanol	92.3	(ppm)	60-120	2-Ethoxyethanol	88.2	(ppm)	60-120
Cumene	82.7	(ppm)	60-120	Cyclohexane	88.3	(ppm)	60-120
Ethyl acetate	91.8	(ppm)	60-120	Ethyl ether	87.5	(ppm)	60-120
Ethylene glycol	86.2	(ppm)	60-120	Ethylene oxide	81.5	(ppm)	60-120
Heptane	90.2	(ppm)	60-120	Isopropyl acetate	85.7	(ppm)	60-120
Tetrahydrofuran	88.8	(ppm)	60-120	Ethanol	90.8	(ppm)	60-120

Kawai Medeiros
Lab Director - 10/3/2022

Report: COA Evaluation Summary

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PREE LABORATORIES

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Product Description

Client: **GVB Oregon**

Product Name: **CBD Iso GVL-TST336**

Matrix: Hemp Concentrate
Metrc Source ID: n/a
Metrc Package ID: n/a
License Number:
Date Collected: 2022-09-30
Date Received: 2022-09-30
Report Date: 2022-10-02
Report ID: A7961-01
Tests Requested: Cannabinoid Potency Analysis
Pesticide Analysis
Mycotoxin Analysis
Residual Solvent Analysis

Evaluation Summary

Mycotoxin Analysis	Mycotoxin Status
Pass	No mycotoxins were detected above Oregon's action limit as stated in OAR 333-007.

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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 2022-09-30 by Bharath Pogula and received by PREE Laboratory on 2022-09-30. The sample was assigned a laboratory ID of A7961-01. The results in this report only apply to sample A7961-01.

This report shall not be reproduced, except in full, without written consent of PREE Laboratory. Report alterations by any other entity beside PREE Laboratory are not allowed. If alterations are made to the original report after the initial release, they will be noted on the case narrative below.

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. R&D sample results may not be used for compliance purposes.

Newkirk, Carson | Laboratory Manager
PREE South: 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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PREE LABORATORIES

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Mycotoxin Analysis

Product Name: **CBD Iso GVL-TST336**

Analysis Date: 2022-10-01

Testing Batch ID: MYV221001A

Testing Method: *LSOP #308 Mycotoxin by LCMS/MS*

Evaluation Detail

Mycotoxin Name	Tested Value (ppb)	Pass Criteria (ppb)	LOQ (ppb)	Status Pass/Unsatisfactory
Aflatoxin (Total)	**< LOQ**	20.00	10.00	**Pass**
Aflatoxin B1	**< LOQ**	20.00	10.00	**Pass**
Aflatoxin B2	**< LOQ**	20.00	10.00	**Pass**
Aflatoxin G1	**< LOQ**	20.00	10.00	**Pass**
Aflatoxin G2	**< LOQ**	20.00	10.00	**Pass**
Ochratoxin A	**< LOQ**	20.00	10.00	**Pass**

Continued on next page…

Report: Quality Check

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Mycotoxin Analysis

Analysis Date: 2022-10-01

Testing Batch ID: MYV221001A

Note: PREE's accreditation through ORELAP for Mycotoxin Analysis is pending and therefore is not an accredited test. Results may only be used for non-compliance reasons.

Quality Control Detail

Mycotoxin Name	MB	LCS	Expected Value	Tested Value	Pass Criteria
Aflatoxin B1	o		< 10.0 ppb	< 10 ppb	< 10.0 ppb
Aflatoxin B2	o		< 10.0 ppb	< 10 ppb	< 10.0 ppb
Aflatoxin G1	o		< 10.0 ppb	< 10 ppb	< 10.0 ppb
Aflatoxin G2	o		< 10.0 ppb	< 10 ppb	< 10.0 ppb
Ochratoxin A	o		< 10.0 ppb	< 10 ppb	< 10.0 ppb
Aflatoxin B1		●	100.0%	105.8%	60% - 120%
Aflatoxin B2		●	100.0%	106.3%	60% - 120%
Aflatoxin G1		●	100.0%	103.4%	60% - 120%
Aflatoxin G2		●	100.0%	112.2%	60% - 120%
Ochratoxin A		●	100.0%	102.6%	60% - 120%

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 (A) : Compound tested over 100% or 1000 mg/g. The test result is within the method uncertainty and instrument result is not above the upper limit of quantitation. Value will be adjusted down to 100% or 1000 mg/mg in the reporting process.
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- 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 :

  Wet WT% = (Exported concentration ppm) x (Dilution) x (Extraction Vol./Wet wt mg) x 100

  Total THC% = (%THCA) x 0.877 + (%THC)

  Total CBD% = (%CBDA) x 0.877 + (%CBD)

  Total THC (Dry WT)% = % total THC(wet) / [1-(% moisture/100)]

  Total CBD (Dry WT)% = % total CBD(wet) / [1-(% moisture/100)]

- Percentage Recovery : % Rec. = [(Amount measured) / (Known amount)] * 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.