

# Certificate of Analysis

Document No: F 14.008

Revision: 001

CBGenius, Ltd

## Product Description

Product	CBD 2000
SKU	C2000i
Product Form	55 ml bottle
Packaging, Closure	Dropper, child proof
Storage Condition	RT
Lot #	CBDO-220422

## Physical

Attribute	Method/SOP	Specification	Test Result
Product Color	Organoleptic	yellow	Pass
Product Odor	Organoleptic	lemon-mint	Pass
Product Weight Variation	Sample	53-55 ml	Pass

## Purity/Strength


Ingredients	Label Claim	Specification	Test Result
CBD	2000 mg/55 ml	3.85% to 4.5%	4.23%
THC	< 0.3%	< 0.3%	< 0.01
Other ingredients	MCT Oil, Lemon oil flavoring, Mint oil flavoring		

## Identification/Chemical/Heavy Metals

Attribute	Method	Specification	Test Result
Identity	HPLC	Matches reference std	Matches reference
CBD	HPLC	>3.8%	4.23%
Other			
Arsenic	ICPMS per USP 2232	<2000 PPB	<42 PPB
Cadmium	ICPMS per USP 2232	<820 PPB	<42 PPB
Mercury	ICPMS per USP 2232	<400 PPB	<42 PPB
Lead	ICPMS per USP 2232	<1200 PPB	<42 PPB

## Microbiology

Attribute	Method	Specification	Test Result
Total Aerobic	USP/AOAC/FDA BAM	< 1x 10 <sup>3</sup> CFU/g	None Detected
Total Yeast & Mold	USP/AOAC/FDA BAM	< 1x 10 <sup>2</sup> CFU/g	None Detected
Bile Tolerant gram neg.	USP/AOAC/FDA BAM	< 1x 10 <sup>2</sup> CFU/g	None Detected
E. coli	USP/AOAC/FDA BAM	None Detected	None Detected

QA Approval:		Date:	7/6/2022
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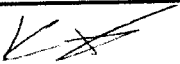
COA Page 2

## Residual Solvent Analysis

Attribute	Method	Specifcation	Status
Butanes	GC	<500 ppm	Pass
Ethanol	GC	<500 ppm	Pass
Heptanes	GC	<500 ppm	Pass
Propane	GC	<500 ppm	Pass

## Pesticide Analysis

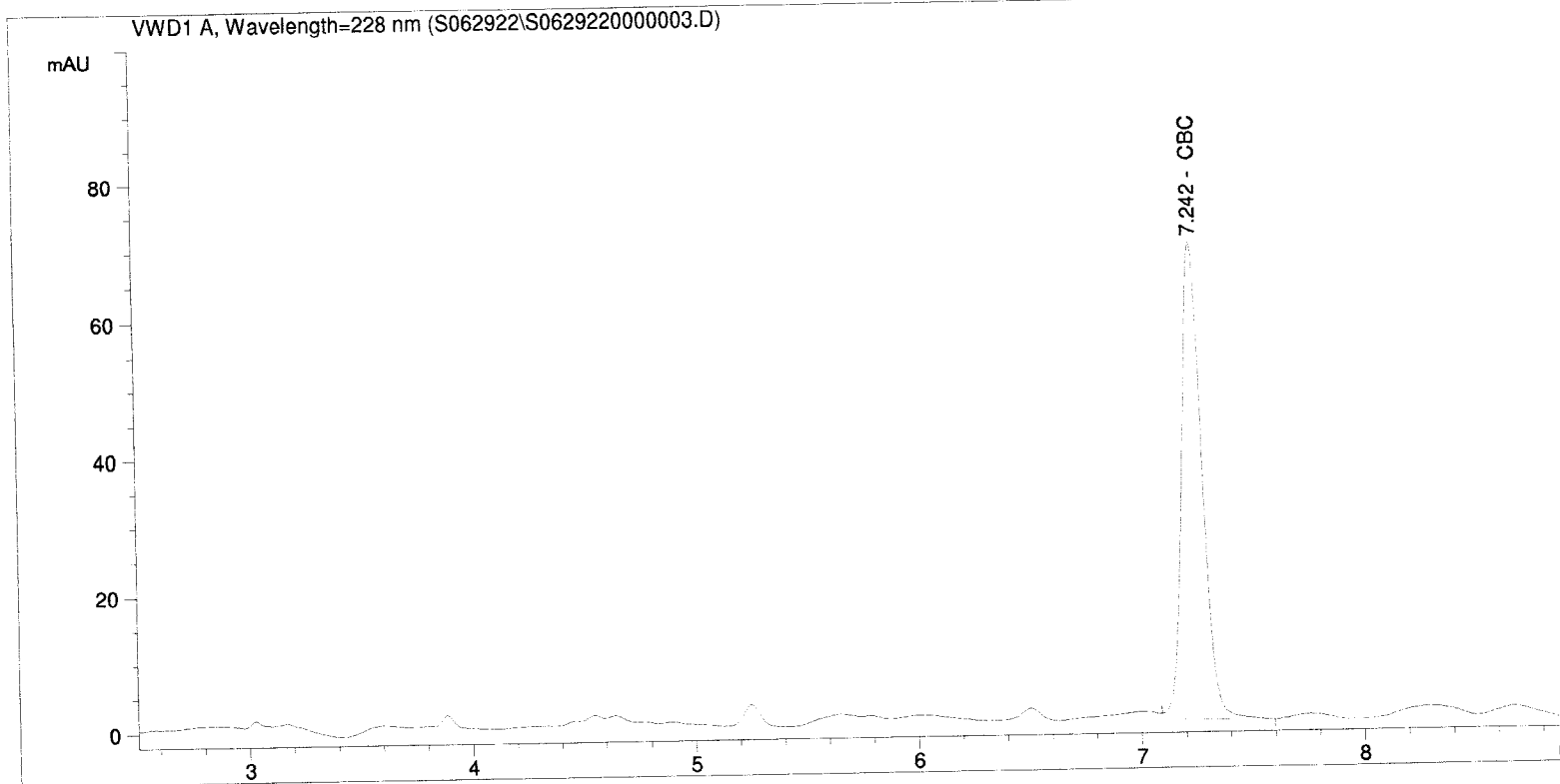
Attribute	Method	Limit	Status
Abamectin	GC-FID	200	Pass
Acequinocyl	GC-FID	4000	Pass
Bifenazate	GC-FID	400	Pass
Bifrenthin	GC-FID	100	Pass
Cyfuthrin	GC-FID	2000	Pass
Cypermethrin	GC-FID	1000	Pass
Daminozide	GC-FID	800	Pass
Dimethomorph	GC-FID	2000	Pass
Eoxazole	GC-FID	400	Pass
Fenhexamid	GC-FID	1000	Pass
Flonicamdi	GC-FID	1000	Pass
Fludioconil	GC-FID	500	Pass
Imidiclopid	GC-FID	500	Pass
Myclobutanil	GC-FID	400	Pass
Paclobutrazol	GC-FID	400	Pass
Piperonyl Butoxid	GC-FID	3000	Pass
Pyrethrins	GC-FID	2000	Pass
Quintozene	GC-FID	800	Pass
Spinetoram	GC-FID	1000	Pass
Spinosad	GC-FID	1000	Pass
Spirotetramat	GC-FID	1000	Pass
Thiamethoxam	GC-FID	400	Pass
Triflozystrobin	GC-FID	1000	Pass
Plant Growth Regulators	GC-FID	50	Pass

QA Approval:		Date:	7/6/2022
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=====
Acq. Operator   : SF                               Seq. Line :    3
Acq. Instrument : Instrument 1                     Location  : Vial 2
Injection Date  : 6/29/2022 4:14:17 AM           Inj       :    1
                                                    Inj Volume: 5.0 µl

Acq. Method     : C:\CHEM32\1\METHODS\ARCHIVE METHODS\POTENCY_2022.M
Last changed    : 6/29/2022 3:43:02 AM by SF
Analysis Method : C:\CHEM32\1\METHODS\POTENCY_2022.M
Last changed    : 7/4/2022 12:44:02 PM by SF
                  (modified after loading)
Method Info     : Cannabinoid Potency 9 minutes
                  Cal Jan 2022
=====
    
```



ESTD Percent Report

```

Sorted By      : Signal
Calib. Data Modified : Monday, July 04, 2022 12:39:28 PM
Multiplier:    : 1.0000
Dilution:      : 10.7000
Sample Amount: : 11.80000 [mg/ml]
Do not use Multiplier & Dilution Factor with ISTDs
    
```

Signal 1: VWD1 A, Wavelength=228 nm

RetTime [min]	Type	Area mAU *s	Amt/Area	Amount %	Grp	Name
1.627		-	-	-		Ibuprofen IS
2.983		-	-	-		CBG
3.131		-	-	-		CBD
3.393		-	-	-		THCV
4.582		-	-	-		CBN
5.718		-	-	-		d9-THC

## Certificate of Analysis

Product: MCT Coconut Based USP/NF  
Package Size: 418.874 # DRUM

Certification Date: January 12, 2022  
Manufacture Date: September 6, 2021  
Recertification Date: September 5, 2023

Lot # 113364

KCC Number: 306182

Batch Number: BTA2109118

THE FOLLOWING VALUES HAVE BEEN PROVIDED BY THE MANUFACTURER OF THIS PRODUCT.

Characteristic	Specification	Result
Appearance	Clear, light-yellow liquid	Clear, light-yellow liquid
Taste	Characteristic	Characteristic
Color APHA	50 max	28
Acid value, mg KOH/g	0.1 max	0.04
Moisture %	0.1 max	0.01
Peroxide Value, mEq/kg	1 max	0.00
Saponification Value, mg KOH/g	300 – 350	335.42
Iodine Value, g I <sub>2</sub> /100g	To report	0.02
Density @ 25°C	0.89 – 0.94	0.94
<b>Fatty Acid Composition, %</b>		
C6	2 max	0.57
C8	55 – 70	64.23
C10	29 – 45	33.00
C12	3 max	2.21
<b>Microbiological, CFU/gram</b>		
Aerobic Plate Count	100 Max	< 10
E.coli / Coliform Count	10 Max	< 10 / <10
Yeast and Mold Count	10 Max	< 10
Salmonella	Negative	Negative
Staphylococcus Aureus Count	Negative	Negative

Quality Approved  
January 12, 2022

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RetTime [min]	Type	Area mAU	Amt/Area *s	Amount %	Grp	Name
5.893		-	-	-		d8-THC
6.761		-	-	-		CBL
7.242	VB	441.64963	9.78210e-5	3.917523		CBC
7.664		-	-	-		THCA
12.000		-	-	-		CBT
Totals :				3.917523		

1 Warnings or Errors :

Warning : Time reference compound(s) not found

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\*\*\* End of Report \*\*\*

# Report: COA Evaluation Summary



OLCC License No: 10187002BDA | ORELAP ID: 4147  
 147 SW 2nd Street, Corvallis, OR 97331 | 833-237-8322 | [www.pree.com](http://www.pree.com) | [info@pree.com](mailto:info@pree.com)

For OLCC/OHA Compliance Purposes.

## Product Description

## Evaluation Summary

Client: Precision Plant Molecules

Moisture Analysis

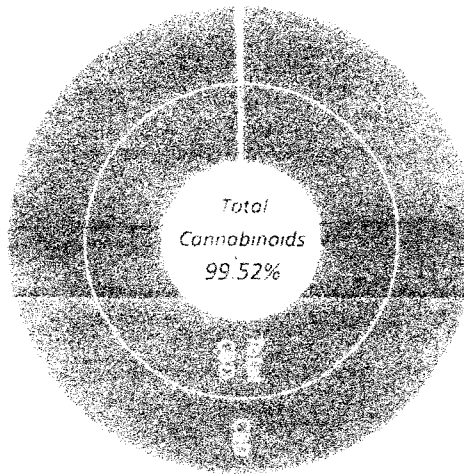
Test Not Required

Product Name: CBD-21-014

Matrix: Hemp Concentrate  
 Metric Source ID: n/a  
 Metric Package ID: n/a  
 License Number: n/a  
 Date Collected: 2021-07-06  
 Date Received: 2021-07-06  
 Report Date: 2021-07-08  
 Report ID: A4056-02  
 Tests Requested: Cannabinoid Potency Analysis  
 Pesticide Analysis  
 Residual Solvent Analysis

### Cannabinoid Potency Analysis

**Total THC** < LOQ  
**Total CBD** 99.15 %  
 < LOQ 991.5 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	99.15 %	991.5 mg/g
CBGA	< LOQ	< LOQ
CBG	< LOQ	< LOQ
CBDA	< LOQ	< LOQ
CBDV	0.38 %	3.8 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

# Report: Evaluation Detail



OLCC License No. 10067092BDA | ORELAP ID: 4147  
 640 S.W. 10th Street, Corvallis, OR 97331 | 541.257.5712 | [sales@preelabs.com](mailto:sales@preelabs.com) | [preelabs.com](http://preelabs.com)

For OLCC/OHA Compliance Purposes.

## Moisture Analysis

### Evaluation Detail

Moisture Analysis | Test Not Requested/Required

## Cannabinoid Potency Analysis

### Evaluation Detail

Cannabinoid Potency Analysis	Compound	Abbr.	Dry Wt. (%)	Dry Wt. (mg/g)	RL (%)	
Total THC *	Tetrahydro-cannabinolic acid	THCA	< LOQ	< LOQ	0.2%	
	Delta9 Tetrahydro-cannabinol	Δ-9-THC	< LOQ	< LOQ	0.2%	
	Delta8 Tetrahydro-cannabinol	Δ-8-THC	< LOQ	< LOQ	0.2%	
Total CBD *	Tetrahydrocannabinol	THCV	< LOQ	< LOQ	0.2%	
	Cannabidiolic acid	CBDA	< LOQ	< LOQ	0.2%	
	99.15 %	Cannabidiol	CBD	99.15 %	991.5	0.2%
	991.5 mg/g	Cannabigerolic acid	CBGA	< LOQ	< LOQ	0.2%
		Cannabigerol	CBG	< LOQ	< LOQ	0.2%
		Cannabidivarinic acid	CBDVA	< LOQ	< LOQ	0.2%
		Cannabidivarin	CBDV	0.38 %	3.8	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

# Report: Evaluation Detail



12001 Lincoln St. | 10087662504 | URL: LAP ID: 4149

690 S. Lincoln Street, Suite 100, Ft. Collins, CO 80526 | Phone: 970.226.1100 | [www.pree.com](http://www.pree.com)

For OLCC/OHA Compliance Purposes.

## Pesticide Analysis

## Evaluation Detail

Pesticide Name	Tested Value (ppm)	Pass Criteria (ppm)	LOQ (ppm)	Status Pass/Unsatisfactory
Malathion	< LOQ	0.20	0.04	Pass
Metolaxyl	< LOQ	0.20	0.04	Pass
Methidathion	< 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
Mycolobutanol	< LOQ	0.20	0.20	Pass
Naled	< LOQ	0.50	0.04	Pass
Oxamyl	< LOQ	1.00	0.04	Pass
Pachlobutrazol	< LOQ	0.40	0.04	Pass
Permethrin	< 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
Prothioconazole	< LOQ	0.40	0.20	Pass
Propoxur	< LOQ	0.20	0.04	Pass
Pyrethrin	< LOQ	1.00	1.00	Pass
Pyridaben	< LOQ	0.20	0.04	Pass
Spinosad	< LOQ	0.20	0.20	Pass
Sprinosifen	< LOQ	0.20	0.20	Pass
Sprinetremas	< LOQ	0.20	0.04	Pass
Sulconazole	< 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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 610 SW 2nd Street, Corvallis, OR 97331 | 541.337.6700 | [services@preelab.com](mailto:services@preelab.com) | [preelab.com](http://preelab.com)

For OLCC/OHA Compliance Purposes

## Moisture Analysis

### Quality Control Detail

Moisture Analysis |

## Cannabinoid Potency Analysis

### 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%
Cannabidiolic acid	o		< 0.1%	< 0.1%	< 0.1%
Cannabidiol	o		< 0.1%	< 0.1%	< 0.1%
Tetrahydro-cannabinolic acid		*	100.0%	119.9%	80-120%
Delta9 Tetrahydro-cannabinol		*	100.0%	110.4%	80-120%
Cannabidiolic acid		*	100.0%	111.6%	80-120%
Cannabidiol		*	100.0%	100.3%	80-120%

# Report: Quality Check



LABORATORY

10000 Old Creek Court, Newark, NJ 07105

## Pesticide Analysis

## Quality Control Detail

Pesticide Name	MB	Expected Value (ppm)	Tested Value (ppm)	Pass Criteria (ppm)
Abamectin	0	< 0.1	< 0.1	< 0.1
Acetate	0	< 0.02	< 0.02	< 0.02
Acetamiprid	0	< 0.1	< 0.1	< 0.1
Acetaminophen	0	< 0.02	< 0.02	< 0.02
Albendazole	0	< 0.02	< 0.02	< 0.02
Azoxystrobin	0	< 0.02	< 0.02	< 0.02
Bifenazate	0	< 0.02	< 0.02	< 0.02
Bifenthrin	0	< 0.1	< 0.1	< 0.1
Boscalid	0	< 0.02	< 0.02	< 0.02
Carbaryl	0	< 0.02	< 0.02	< 0.02
Carbofuran	0	< 0.02	< 0.02	< 0.02
Chlorantraniliprole	0	< 0.02	< 0.02	< 0.02
Chlorfenapyr	0	< 0.5	< 0.5	< 0.5
Chlorpyrifos	0	< 0.02	< 0.02	< 0.02
Clofentezine	0	< 0.1	< 0.1	< 0.1
Cyfluthrin	0	< 0.5	< 0.5	< 0.5
Cypermethrin	0	< 0.5	< 0.5	< 0.5
Daminozide	0	< 0.1	< 0.1	< 0.1
Diazinon	0	< 0.02	< 0.02	< 0.02
Dichlorvos	0	< 0.1	< 0.1	< 0.1
Dimethoate	0	< 0.02	< 0.02	< 0.02
Ethionazole	0	< 0.02	< 0.02	< 0.02
Etofenprox	0	< 0.1	< 0.1	< 0.1
Etoxazole	0	< 0.02	< 0.02	< 0.02
Fenoxycarb	0	< 0.02	< 0.02	< 0.02
Fenpyroximate	0	< 0.1	< 0.1	< 0.1
Fipronil	0	< 0.02	< 0.02	< 0.02
Flononamid	0	< 0.02	< 0.02	< 0.02
Fludoxonil	0	< 0.1	< 0.1	< 0.1
Hexythiazox	0	< 0.02	< 0.02	< 0.02
Imazalil	0	< 0.02	< 0.02	< 0.02
Imidacloprid	0	< 0.02	< 0.02	< 0.02
Kresoxim-methyl	0	< 0.1	< 0.1	< 0.1



# Report: Definition



OLCC License No. 100870928DA | ORELAP ID: 4147

941 SW 2nd Street, Corvallis, OR 97331 | 541.267.3712 | [www.pree.com](http://www.pree.com) | [info@pree.com](mailto:info@pree.com)

For OLCC/OHA Compliance Purposes.

## 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
  - 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