

Product Description

Product	CBD 400 pet
SKU	C400i-pet
Product Form	2 oz bottle
Packaging, Closure	Dropper, child proof
Storage Condition	RT
Lot #	CBD-P400-220422

Physical

Attribute	Method/SOP	Specification	Test Result
Product Color	Organoleptic	yellow	Pass
Product Odor	Organoleptic	lemon-mint	Pass
Product Weight Variation	Sample	52-55 ml	Pass

Purity/Strength

Ingredients	Label Claim	Specification	Test Result
CBD	400 mg/30 ml	1.6% to 2.1%	1.69%
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	>1.6%	1.69%
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	< 1×10^3 CFU/g	None Detected
Total Yeast & Mold	USP/AOAC/FDA BAM	< 1×10^2 CFU/g	None Detected
Bile Tolerant gram neg.	USP/AOAC/FDA BAM	< 1×10^2 CFU/g	None Detected
E. coli	USP/AOAC/FDA BAM	None Detected	None Detected

QA Approval:		Date:	7/8/2022
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COA Page 2

Residual Solvent Analysis

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

Pesticide Analysis

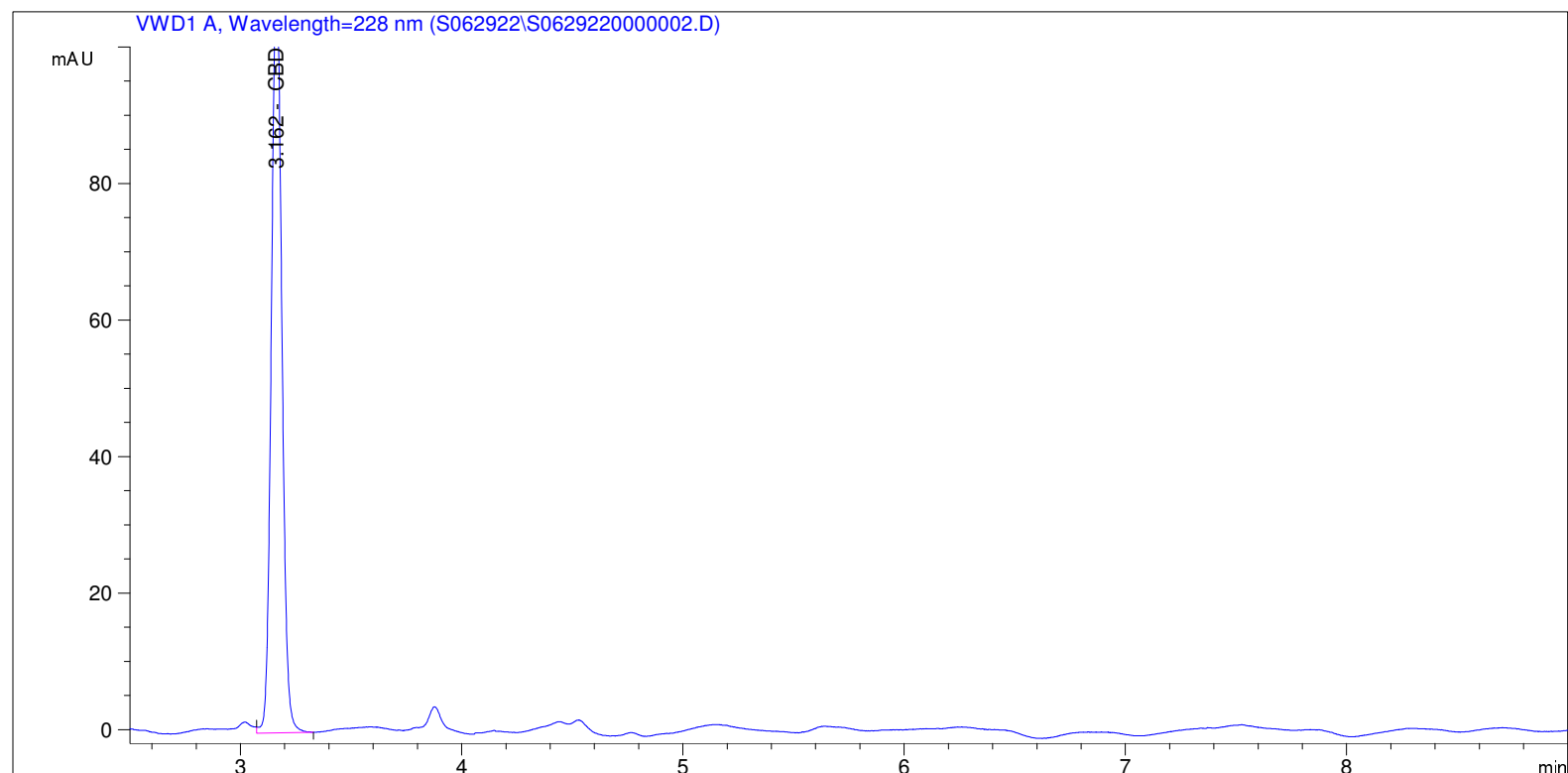
Attribute	Method	Limit	Status
Abamectin	GC-FID	200	Pass
Acequinocyl	GC-FID	4000	Pass
Bifenazate	GC-FID	400	Pass
Bifenthrin	GC-FID	100	Pass
Cyfluthrin	GC-FID	2000	Pass
Cypermethrin	GC-FID	1000	Pass
Daminozide	GC-FID	800	Pass
Dimethomorph	GC-FID	2000	Pass
Eoxazole	GC-FID	400	Pass
Fenhexamid	GC-FID	1000	Pass
Flonicamid	GC-FID	1000	Pass
Fludioconil	GC-FID	500	Pass
Imidacloprid	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:	7/8/2022
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Acq. Operator   : SF                      Seq. Line :    2
Acq. Instrument : Instrument 1             Location  : Vial 1
Injection Date  : 6/29/2022 4:03:44 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 12:45:25 PM by SF
                  (modified after loading)

Method Info     : Cannabinoid Potency 9 minutes
                  Cal Jan 2022
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ESTD Percent Report

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Sorted By      :      Signal
Calib. Data Modified :      Monday, July 04, 2022 12:39:28 PM
Multiplier:      :      1.0000
Dilution:        :      11.1000
Sample Amount:    :      11.70000 [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
3.162	VB	366.86847	1.21633e-4	4.233486		CBD
3.393		-	-	-		THCV
4.582		-	-	-		CBN
5.718		-	-	-		d9-THC

RetTime	Type	Area	Amt/Area	Amount	Grp	Name
[min]		mAU	*s	%		
5.893		-	-	-		d8-THC
6.761		-	-	-		CBL
7.138		-	-	-		CBC
7.664		-	-	-		THCA
12.000		-	-	-		CBT

Totals : 4.233486

1 Warnings or Errors :

Warning : Time reference compound(s) not found

*** End of Report ***

Report: COA Evaluation Summary

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Product Description

Client: Precision Plant Molecules

Product Name: CBD-21-014

Evaluation Summary

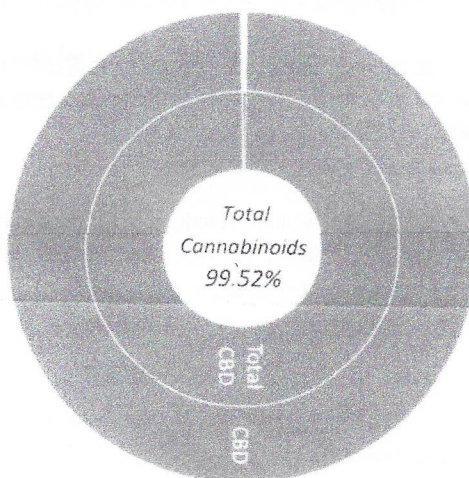
Moisture Analysis

Test Not Required

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 * **Total CBD ***
< LOQ 99.15 %
< LOQ 991.5 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	99.15 %	991.5 mg/g
CBGA	< LOQ	< LOQ
CBG	< LOQ	< LOQ
CBDVA	< 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 333-007-0430.

Report: Evaluation Detail



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Moisture Analysis

Evaluation Detail

Moisture Analysis

Test Not
Requested/Required

Cannabinoid Potency Analysis

Evaluation Detail

Cannabinoid Potency Analysis

Total THC *

< LOQ

< LOQ

Total CBD *

99.15 %

991.5 mg/g

Compound	Abbr.	Dry Wt. (%)	Dry Wt. (mg/g)	RL (%)
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 %
Tetrahydrocannabivarin	THCV	< LOQ	< LOQ	0.2 %
Cannabidiolic acid	CBDA	< LOQ	< LOQ	0.2 %
Cannabidiol	CBD	99.15 %	991.5	0.2 %
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

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Pesticide Analysis

Evaluation Detail

Pesticide Name	Tested Value (ppm)	Pass Criteria (ppm)	LOQ (ppm)	Status Pass/Unsatisfactory
Melathion	< LOQ	0.20	0.04	Pass
Metolaxyl	< 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
Myclobutanol	< 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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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	☐		< 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%	119.8%	80-120%
Delta9 Tetrahydro-cannabinol		●	100.0%	110.4%	80-120%
Cannabidiolic acid		●	100.0%	111.6%	80-120%
Cannabidiol		●	100.0%	108.3%	80-120%

Report: Quality Check

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Pesticide Analysis

Quality Control Detail

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

Report: Quality Check



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Pesticide Analysis

Quality Control Detail

Pesticide Name	LCS	Expected Recovery (%)	Actual Recovery (%)	Pass Criteria (%)
Abamectin	•	100.00	108.69	60 - 140
Acephate	•	100.00	100.13	60 - 140
Acequinocyl	•	100.00	101.78	60 - 140
Acetamiprid	•	100.00	99.03	60 - 140
Aldicarb	•	100.00	96.16	60 - 140
Azoxystrobin	•	100.00	95.72	60 - 140
Bifenazate	•	100.00	98.52	60 - 140
Bifenthrin	•	100.00	102.68	60 - 140
Boscalid	•	100.00	102.02	60 - 140
Carbaryl	•	100.00	107.59	60 - 140
Carbofuran	•	100.00	103.37	60 - 140
Chlorantraniliprole	•	100.00	103.94	60 - 140
Chlorfenapyr	•	100.00	97.78	60 - 140
Chlorpyrifos	•	100.00	90.79	60 - 140
Clofentezine	•	100.00	95.21	60 - 140
Cyfluthrin	•	100.00	94.74	60 - 140
Cypermethrin	•	100.00	94.06	60 - 140
Daminozide	•	100.00	103.54	60 - 140
Diazinon	•	100.00	100.05	60 - 140
Dichlorvos	•	100.00	98.00	60 - 140
Dimethoate	•	100.00	102.84	60 - 140
Ethoprophos	•	100.00	101.54	60 - 140
Etofenprox	•	100.00	101.74	60 - 140
Etoxazole	•	100.00	104.74	60 - 140
Fenoxycarb	•	100.00	98.65	60 - 140
Fenpyroximate	•	100.00	102.55	60 - 140
Fipronil	•	100.00	95.25	60 - 140
Flonicamid	•	100.00	96.80	60 - 140
Fludioxonil	•	100.00	104.34	60 - 140
Hexythiazox	•	100.00	103.21	60 - 140
Imazalil	•	100.00	96.57	60 - 140
Imidacloprid	•	100.00	99.01	60 - 140
Kresoxim-methyl	•	100.00	102.44	60 - 140

Report: Definition



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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