

# Certiifcate of Analysis

Document No: F 14.008

CBGenius, Ltd

Revision: 001

## Product Description

|                    |                      |
|--------------------|----------------------|
| Product            | CBD 1000             |
| SKU                | C1000i               |
| Product Form       | 30 ml bottle         |
| Packaging, Closure | Dropper, child proof |
| Storge Condition   | RT                   |
| Lot #              | CBD-1k-O-220422      |

## Physical

| Attribute                | Method/SOP    | Specification | Test Result |
|--------------------------|---------------|---------------|-------------|
| Product Color            | Organopleptic | yellow        | Pass        |
| Product Odor             | Organopleptic | lemon-mint    | Pass        |
| Product Weight Variation | Sample        | 27-31 ml      | Pass        |

## Purity/Strength

| Ingredients       | Label Claim                                      | Specification | Test Result |
|-------------------|--------------------------------------------------|---------------|-------------|
| CBD               | 1000 mg/30 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/Chemcial/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 |
|--------------|-------------------------------------------------------------------------------------|-------|----------|

## 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

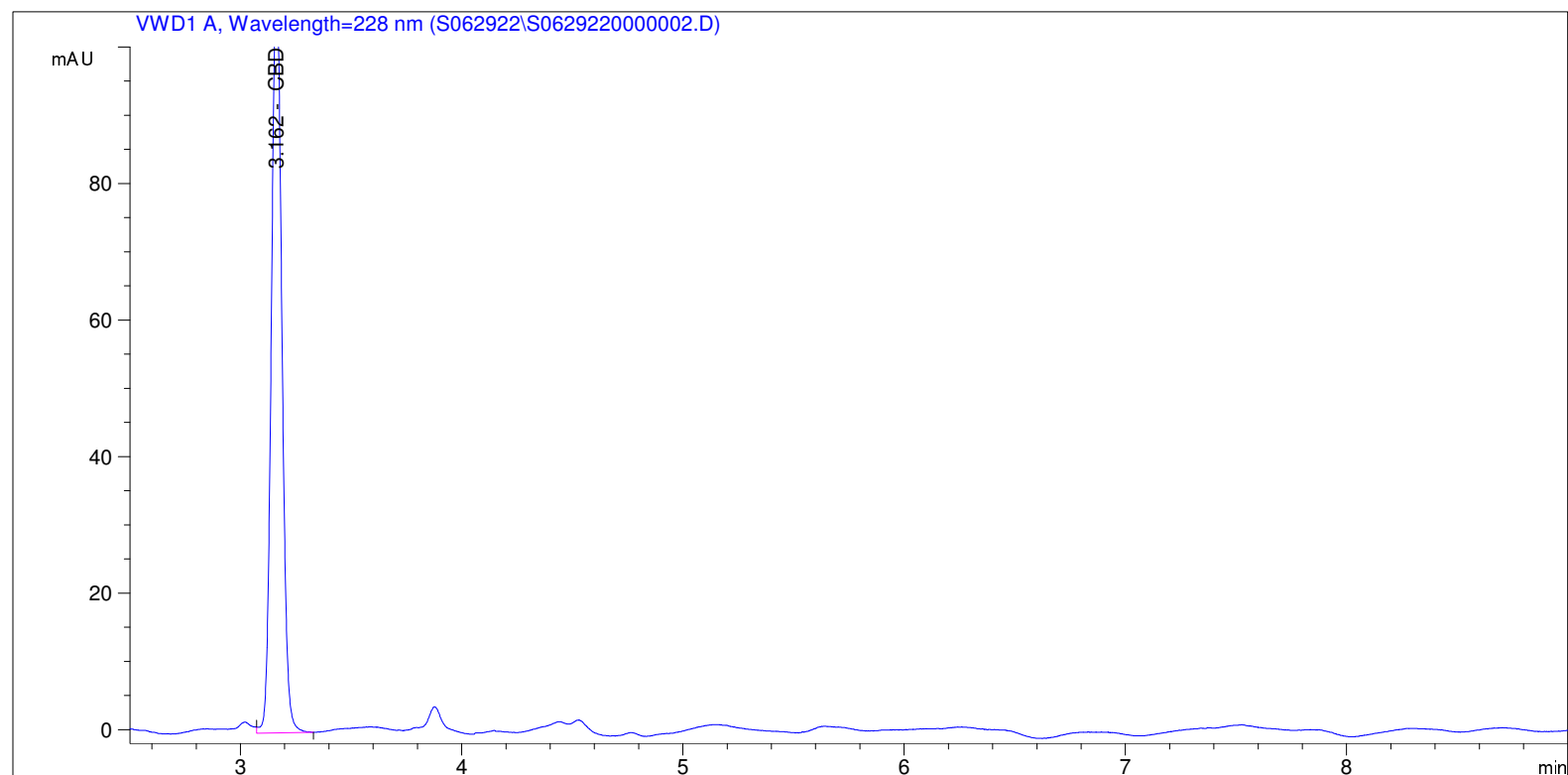
| Attribute               | Method | Limit | Status |
|-------------------------|--------|-------|--------|
| Abamectin               | GC-FID | 200   | Pass   |
| Acequinocyl             | GC-FID | 4000  | Pass   |
| Bifenazate              | GC-FID | 400   | Pass   |
| Bifenthrin              | GC-FID | 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   |
| Imidicloprid            | 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 |
|--------------|-------------------------------------------------------------------------------------|-------|----------|

```
=====
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
=====
```



=====

ESTD Percent Report

=====

```
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<br>[min] | Type | Area<br>mAU *s | Amt/Area   | Amount<br>% | 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

OLCC License No. 10087092BDA | ORELAP ID: 4147

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

**PRE**  
LABORATORIES

For OLCC/OHA Compliance Purposes.

## Product Description

Client: Precision Plant Molecules

Product Name: CBD-21-014

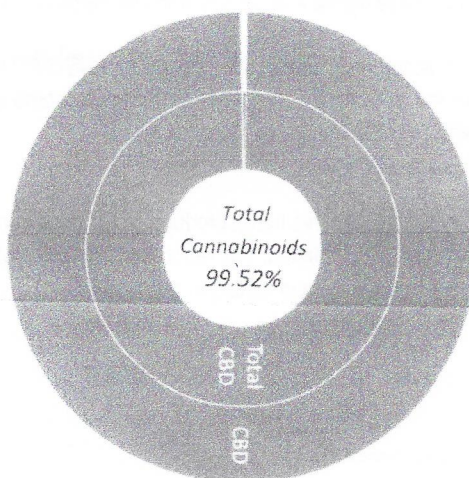
## Evaluation Summary

Moisture Analysis

Test Not Required

### 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        |

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

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

$\Delta$ -9-THC

< LOQ

< LOQ

0.2 %

Delta8 Tetrahydro-cannabinol

$\Delta$ -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  $\Delta$ -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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For OLCC/OHA Compliance Purposes.

## 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



OLCC License No. 10087092BDA | ORELAP ID: 4147

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