

# 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

For OLCC/OHA Compliance Purposes.

## Product Description

Client: **Anthem Hemp**

Product Name: **08.04.21-CBD-Isolate B#8417 Dup I - CBD**

Process Date: 2021-08-04

Retest Date: 2023-08-04

Matrix: Hemp Concentrate

Metc Source ID: n/a

Metc Package ID: n/a

License Number: n/a

Date Collected: 2021-08-05

Date Received: 2021-08-05

Report Date: 2021-08-10

Report ID: A4302-02

Tests Requested: Cannabinoid Potency Analysis  
Pesticide Analysis  
Residual Solvent Analysis

**08.04.21-CBD-Isolate B#8417  
Dup I - CBD**

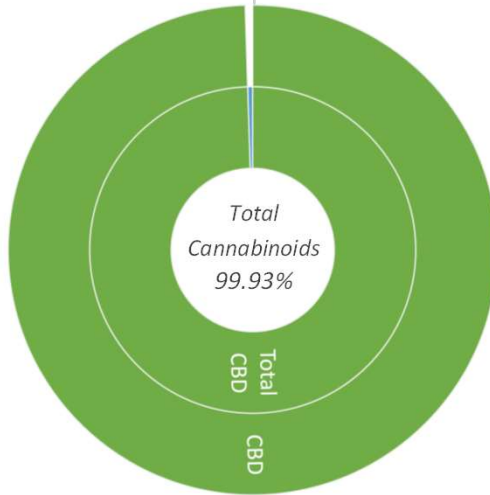
## Evaluation Summary

Moisture Analysis | Test Not Required

### Cannabinoid Potency Analysis

**Total THC \***  
**< LOQ**

**Total CBD \***  
**99.44 %**  
**994.4 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     | 99.44 %   | 994.4 mg/g   |
| CBGA    | < LOQ     | < LOQ        |
| CBG     | < LOQ     | < LOQ        |
| CBDVA   | < LOQ     | < LOQ        |
| CBDV    | 0.49 %    | 4.9 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 333-064-0100

# Report: Case Narrative

*This certificate of analysis is prepared for...*

***Anthem Hemp***

***18253 Gothard St. Huntington Beach, CA 92648***

This report presents the analytical findings for the sample collected on 2021-08-05 by Skyler Smith using sampling plan A4302 and received by PREE Laboratory on 2021-08-05. The sample was assigned a laboratory ID of A4302-02. The results in this report only apply to sample A4302-02.

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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.*

# Report: Evaluation Detail



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| <b>Moisture Analysis</b>                                   | <b>Evaluation Detail</b>     |                              |         |             |                |        |
|--|------------------------------|------------------------------|---------|-------------|----------------|--------|
|  | Moisture Analysis            | Test Not Requested/Required  |         |             |                |        |
| <b>Cannabinoid Potency Analysis</b>                        | <b>Evaluation Detail</b>     |                              |         |             |                |        |
| Product Name: <b>08.05.21-CBD-Isolate B #8417 Dup</b>      | Cannabinoid Potency Analysis | Compound                     | Abv.    | Dry Wt. (%) | Dry Wt. (mg/g) | RL (%) |
| Analysis Date: 2021-08-09                                  | <b>Total THC *</b>           | Tetrahydro-cannabinolic acid | THCA    | < LOQ       | < LOQ          | 0.2 %  |
| Testing Batch ID: V1632,1631,1630,1623,1621,1606,1605,1604 | < LOQ                        | Delta9 Tetrahydro-cannabinol | Δ-9-THC | < LOQ       | < LOQ          | 0.2 %  |
| Testing Method: LSOP #303 Cannabinoid Quantification       | < LOQ                        | Delta8 Tetrahydro-cannabinol | Δ-8-THC | < LOQ       | < LOQ          | 0.2 %  |
|  |                              | Tetrahydrocannabivarin       | THCV    | < LOQ       | < LOQ          | 0.2 %  |
|  | <b>Total CBD *</b>           | Cannabidiolic acid           | CBDA    | < LOQ       | < LOQ          | 0.2 %  |
|  | 99.44 %                      | Cannabidiol                  | CBD     | 99.44 %     | 994.4          | 0.2 %  |
|  | 994.4 mg/g                   | Cannabigerolic acid          | CBGA    | < LOQ       | < LOQ          | 0.2 %  |
|  |                              | Cannabigerol                 | CBG     | < LOQ       | < LOQ          | 0.2 %  |
|  |                              | Cannabidivarinic acid        | CBDVA   | < LOQ       | < LOQ          | 0.2 %  |
|  |                              | Cannabidivarin               | CBDV    | 0.49 %      | 4.9            | 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 - OAR 333-064-0100

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## Pesticide Analysis

Product Name: **08.05.21-CBD-Isolate B #8417 Dup**

Analysis Date: 2021-08-06

Testing Batch ID: V1624,1623,1622,1621

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                | 0.20      | 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                       |
| Metalaxyl          | < 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                | 0.20      | 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                       |

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| <b>Moisture Analysis</b>                                   | <b>Quality Control Detail</b> |  |    |     |                    |                  |               |
|--|-------------------------------|--|----|-----|--------------------|------------------|---------------|
|  | Moisture Analysis             |  |    |     |                    |                  |               |
|  |                               |  |    |     |                    |                  |               |
| <b>Cannabinoid Potency Analysis</b>                        | <b>Quality Control Detail</b> |  |    |     |                    |                  |               |
| Analysis Date: 2021-08-09                                  | Cannabinoid Potency Analysis  |  | MB | LCS | Expected Value (%) | Tested Value (%) | Pass Criteria |
| Testing Batch ID: V1632,1631,1630,1623,1621,1606,1605,1604 | 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%             | 114.7%           | 80-120%       |
|  | Delta9 Tetrahydro-cannabinol  |  |    | ●   | 100.0%             | 108.9%           | 80-120%       |
|  | Cannabidiolic acid            |  |    | ●   | 100.0%             | 110.0%           | 80-120%       |
|  | Cannabidiol                   |  |    | ●   | 100.0%             | 109.6%           | 80-120%       |

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## Pesticide Analysis

Analysis Date: 2021-08-06

Testing Batch ID: V1624,1623,1622,1621

## 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  | < 0.02               | < 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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## 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  | < 0.02               | < 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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## Quality Control Detail

| Pesticide Name      | LCS | Expected Recovery (%) | Actual Recovery (%) | Pass Criteria (%) |
|---------------------|-----|-----------------------|---------------------|-------------------|
| Abamectin           | ●   | 100.00                | 106.52              | 60 - 140          |
| Acephate            | ●   | 100.00                | 78.93               | 60 - 140          |
| Acequinocyl         | ●   | 100.00                | 91.04               | 60 - 140          |
| Acetamiprid         | ●   | 100.00                | 88.95               | 60 - 140          |
| Aldicarb            | ●   | 100.00                | 99.36               | 60 - 140          |
| Azoxystrobin        | ●   | 100.00                | 100.05              | 60 - 140          |
| Bifenazate          | ●   | 100.00                | 94.75               | 60 - 140          |
| Bifenthrin          | ●   | 100.00                | 100.98              | 60 - 140          |
| Boscalid            | ●   | 100.00                | 101.76              | 60 - 140          |
| Carbaryl            | ●   | 100.00                | 91.55               | 60 - 140          |
| Carbofuran          | ●   | 100.00                | 95.16               | 60 - 140          |
| Chlorantraniliprole | ●   | 100.00                | 112.16              | 60 - 140          |
| Chlorfenapyr        | ●   | 100.00                | 76.05               | 60 - 140          |
| Chlorpyrifos        | ●   | 100.00                | 91.06               | 60 - 140          |
| Clofentezine        | ●   | 100.00                | 85.80               | 60 - 140          |
| Cyfluthrin          | ●   | 100.00                | 114.83              | 60 - 140          |
| Cypermethrin        | ●   | 100.00                | 98.48               | 60 - 140          |
| Daminozide          | ●   | 100.00                | 97.95               | 60 - 140          |
| Diazinon            | ●   | 100.00                | 92.77               | 60 - 140          |
| Dichlorvos          | ●   | 100.00                | 75.64               | 60 - 140          |
| Dimethoate          | ●   | 100.00                | 89.70               | 60 - 140          |
| Ethoprophos         | ●   | 100.00                | 80.58               | 60 - 140          |
| Etofenprox          | ●   | 100.00                | 93.15               | 60 - 140          |
| Etoxazole           | ●   | 100.00                | 82.95               | 60 - 140          |
| Fenoxycarb          | ●   | 100.00                | 88.11               | 60 - 140          |
| Fenpyroximate       | ●   | 100.00                | 90.47               | 60 - 140          |
| Fipronil            | ●   | 100.00                | 96.65               | 60 - 140          |
| Flonicamid          | ●   | 100.00                | 100.46              | 60 - 140          |
| Fludioxonil         | ●   | 100.00                | 107.48              | 60 - 140          |
| Hexythiazox         | ●   | 100.00                | 83.22               | 60 - 140          |
| Imazalil            | ●   | 100.00                | 112.91              | 60 - 140          |
| Imidacloprid        | ●   | 100.00                | 94.15               | 60 - 140          |
| Kresoxim-methyl     | ●   | 100.00                | 96.38               | 60 - 140          |

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## Pesticide Analysis

## Quality Control Detail

| Pesticide Name         | LCS | Expected Recovery (%) | Actual Recovery (%) | Pass Criteria (%) |
|------------------------|-----|-----------------------|---------------------|-------------------|
| Malathion              | •   | 100.00                | 91.49               | 60 - 140          |
| Metalaxyl              | •   | 100.00                | 92.37               | 60 - 140          |
| Methiocarb             | •   | 100.00                | 91.77               | 60 - 140          |
| Methomyl               | •   | 100.00                | 79.72               | 60 - 140          |
| Methyl-Parathion       | •   | 100.00                | 86.76               | 60 - 140          |
| MGK-264 I              | •   | 100.00                | 81.59               | 60 - 140          |
| MGK-264 II             | •   | 100.00                | 74.82               | 60 - 140          |
| Myclobutanil           | •   | 100.00                | 81.34               | 60 - 140          |
| Naled                  | •   | 100.00                | 90.41               | 60 - 140          |
| Oxamyl                 | •   | 100.00                | 89.60               | 60 - 140          |
| Paclobutrazol          | •   | 100.00                | 101.73              | 60 - 140          |
| Permethrin - trans     | •   | 100.00                | 88.82               | 60 - 140          |
| Permethrin - cis       | •   | 100.00                | 83.01               | 60 - 140          |
| Phosmet                | •   | 100.00                | 96.05               | 60 - 140          |
| Piperonyl butoxide     | •   | 100.00                | 94.59               | 60 - 140          |
| Prallethrin            | •   | 100.00                | 87.97               | 60 - 140          |
| Propiconazole          | •   | 100.00                | 94.49               | 60 - 140          |
| Propoxur               | •   | 100.00                | 95.02               | 60 - 140          |
| Pyrethrin - Cinerin    | •   | 100.00                | 106.63              | 60 - 140          |
| Pyrethrin - Jasmolin   | •   | 100.00                | 78.39               | 60 - 140          |
| Pyrethrin - Pyrethrins | •   | 100.00                | 92.39               | 60 - 140          |
| Pyridaben              | •   | 100.00                | 112.58              | 60 - 140          |
| Spinosyn A             | •   | 100.00                | 99.77               | 60 - 140          |
| Spinosyn D             | •   | 100.00                | 91.33               | 60 - 140          |
| Spiromesifen           | •   | 100.00                | 125.40              | 60 - 140          |
| Spirotetramat          | •   | 100.00                | 89.74               | 60 - 140          |
| Spiroxamine            | •   | 100.00                | 105.42              | 60 - 140          |
| Tebuconazole           | •   | 100.00                | 91.60               | 60 - 140          |
| Thiacloprid            | •   | 100.00                | 90.09               | 60 - 140          |
| Thiamethoxam           | •   | 100.00                | 95.18               | 60 - 140          |
| Trifloxystrobin        | •   | 100.00                | 91.97               | 61 - 140          |

## 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.

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**A4302-02**

**FREE Labs**

**010-10087092BDA**

**Sample ID: P210716-02      METRC Batch #:**

**Matrix: Extract/Concentrate**

**Date Sampled: 08/05/21 13:15**

**Date Accepted: 08/05/21**

**Batch ID:**

**Batch Size:**

**Sampling Method/SOP: SOP.T.20.010**

## Residual Solvents

| Analyte             | LOQ  | Action Level      | Result | Units |
|---------------------|------|-------------------|--------|-------|
| <b>Butanes</b>      | 250  | 5000 <sup>3</sup> | < LOQ  | ppm   |
| n-Butane            | 250  | 5000              | < LOQ  | ppm   |
| iso-Butane          | 250  | 5000              | < LOQ  | ppm   |
| <b>Hexanes</b>      | 174  | 290 <sup>4</sup>  | < LOQ  | ppm   |
| n-Hexane            | 174  | 290               | < LOQ  | ppm   |
| 2-Methylpentane     | 174  | 290               | < LOQ  | ppm   |
| 3-Methylpentane     | 174  | 290               | < LOQ  | ppm   |
| 2,2-Dimethylbutane  | 174  | 290               | < LOQ  | ppm   |
| 2,3-Dimethylbutane  | 174  | 290               | < LOQ  | ppm   |
| <b>Pentanes</b>     | 1400 | 5000 <sup>5</sup> | < LOQ  | ppm   |
| n-Pentane           | 1400 | 5000              | < LOQ  | ppm   |
| iso-Pentane         | 1400 | 5000              | < LOQ  | ppm   |
| Neopentane          | 250  | 5000              | < LOQ  | ppm   |
| <b>Xylenes</b>      | 1302 | 2170              | < LOQ  | ppm   |
| 1,2-Dimethylbenzene | 1302 | 2170              | < LOQ  | ppm   |
| 1,3-Dimethylbenzene | 1302 | 2170              | < LOQ  | ppm   |
| 1,4-Dimethylbenzene | 1302 | 2170              | < LOQ  | ppm   |
| Xylenes MP          | 1302 | 2170              | < LOQ  | ppm   |
| Ethyl benzene       | 1302 | NA                | < LOQ  | ppm   |
| 2-Propanol (IPA)    | 1400 | 5000              | < LOQ  | ppm   |
| Acetone             | 1400 | 5000              | < LOQ  | ppm   |
| Acetonitrile        | 246  | 410               | < LOQ  | ppm   |
| Benzene             | 1.2  | 2                 | < LOQ  | ppm   |
| Methanol            | 1000 | 3000              | < LOQ  | ppm   |
| Propane             | 250  | 5000              | < LOQ  | ppm   |
| Toluene             | 534  | 890               | < LOQ  | ppm   |
| Dichloromethane     | 360  | 600               | < LOQ  | ppm   |
| 1,4-Dioxane         | 228  | 380               | < LOQ  | ppm   |
| 2-Butanol           | 1400 | 5000              | < LOQ  | ppm   |
| 2-Ethoxyethanol     | 96   | 160               | < LOQ  | ppm   |
| Cumene              | 42   | 70                | < LOQ  | ppm   |
| Cyclohexane         | 2278 | 3880              | < LOQ  | ppm   |
| Ethyl acetate       | 1400 | 5000              | < LOQ  | ppm   |
| Ethyl ether         | 1400 | 5000              | < LOQ  | ppm   |
| Ethylene glycol     | 558  | 620               | < LOQ  | ppm   |
| Ethylene oxide      | 30   | 50                | < LOQ  | ppm   |
| Heptane             | 1400 | 5000              | < LOQ  | ppm   |
| Isopropyl acetate   | 1400 | 5000              | < LOQ  | ppm   |
| Tetrahydrofuran     | 432  | 720               | < LOQ  | ppm   |
| Ethanol             | 1400 | NA <sup>7</sup>   | < LOQ  | ppm   |
| Water               | NA   | TIC               | NA     |       |

*Date/Time Extracted: 08/05/21 14:58*

*Date/Time Analyzed: 08/06/21 09:48*

*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  
Laboratory Manager - 8/6/2021

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## Quality Control

**Batch: P21H012 - SOP.T.40.031 Solvents**

| Blank(P21H012-BLK1) |        |            | Extracted: 08/05/21 14:58 |                     | Analyzed: 08/06/21 09:48 |            |                 |
|---------------------|--------|------------|---------------------------|---------------------|--------------------------|------------|-----------------|
| Analyte             | Result | LOQ        | Recovery Limits           | Analyte             | Result                   | LOQ        | Recovery Limits |
| Butanes             | < LOQ  | 250 (ppm)  | < LOQ                     | n-Butane            | < LOQ                    | 250 (ppm)  | < LOQ           |
| iso-Butane          | < LOQ  | 250 (ppm)  | < LOQ                     | Hexanes             | < LOQ                    | 174 (ppm)  | < LOQ           |
| n-Hexane            | < LOQ  | 174 (ppm)  | < LOQ                     | 2-Methylpentane     | < LOQ                    | 174 (ppm)  | < LOQ           |
| 3-Methylpentane     | < LOQ  | 174 (ppm)  | < LOQ                     | 2,2-Dimethylbutane  | < LOQ                    | 174 (ppm)  | < LOQ           |
| 2,3-Dimethylbutane  | < LOQ  | 174 (ppm)  | < LOQ                     | Pentanes            | < LOQ                    | 1400 (ppm) | < LOQ           |
| n-Pentane           | < LOQ  | 1400 (ppm) | < LOQ                     | iso-Pentane         | < LOQ                    | 1400 (ppm) | < LOQ           |
| Neopentane          | < LOQ  | 250 (ppm)  | < LOQ                     | Xylenes             | < LOQ                    | 1302 (ppm) | < LOQ           |
| 1,2-Dimethylbenzene | < LOQ  | 1302 (ppm) | < LOQ                     | 1,3-Dimethylbenzene | < LOQ                    | 1302 (ppm) | < LOQ           |
| 1,4-Dimethylbenzene | < LOQ  | 1302 (ppm) | < LOQ                     | Xylenes MP          | < LOQ                    | 1302 (ppm) | < LOQ           |
| Ethyl benzene       | < LOQ  | 1302 (ppm) | < LOQ                     | 2-Propanol (IPA)    | < LOQ                    | 1400 (ppm) | < LOQ           |
| Acetone             | < LOQ  | 1400 (ppm) | < LOQ                     | Acetonitrile        | < LOQ                    | 246 (ppm)  | < LOQ           |
| Benzene             | < LOQ  | 1.2 (ppm)  | < LOQ                     | Methanol            | < LOQ                    | 1000 (ppm) | < LOQ           |
| Propane             | < LOQ  | 250 (ppm)  | < LOQ                     | Toluene             | < LOQ                    | 534 (ppm)  | < LOQ           |
| Dichloromethane     | < LOQ  | 360 (ppm)  | < LOQ                     | 1,4-Dioxane         | < LOQ                    | 228 (ppm)  | < LOQ           |
| 2-Butanol           | < LOQ  | 1400 (ppm) | < LOQ                     | 2-Ethoxyethanol     | < LOQ                    | 96 (ppm)   | < LOQ           |
| Cumene              | < LOQ  | 42 (ppm)   | < LOQ                     | Cyclohexane         | < LOQ                    | 2278 (ppm) | < LOQ           |
| Ethyl acetate       | < LOQ  | 1400 (ppm) | < LOQ                     | Ethyl ether         | < LOQ                    | 1400 (ppm) | < LOQ           |
| Ethylene glycol     | < LOQ  | 558 (ppm)  | < LOQ                     | Ethylene oxide      | < LOQ                    | 30 (ppm)   | < LOQ           |
| Heptane             | < LOQ  | 1400 (ppm) | < LOQ                     | Isopropyl acetate   | < LOQ                    | 1400 (ppm) | < LOQ           |
| Tetrahydrofuran     | < LOQ  | 432 (ppm)  | < LOQ                     | Ethanol             | < LOQ                    | 1400 (ppm) | < LOQ           |

| LCS(P21H012-BS1)    |            |       | Extracted: 08/05/21 14:58 |                     | Analyzed: 08/06/21 09:48 |       |                 |
|---------------------|------------|-------|---------------------------|---------------------|--------------------------|-------|-----------------|
| Analyte             | % Recovery | LOQ   | Recovery Limits           | Analyte             | % Recovery               | LOQ   | Recovery Limits |
| Butanes             | 67.8       | (ppm) | 0-200                     | n-Butane            | 77.5                     | (ppm) | 50-150          |
| iso-Butane          | 58.2       | (ppm) | 50-150                    | Hexanes             | 83.9                     | (ppm) | 0-200           |
| n-Hexane            | 85.4       | (ppm) | 70-130                    | 2-Methylpentane     | 84.5                     | (ppm) | 70-130          |
| 3-Methylpentane     | 85.1       | (ppm) | 70-130                    | 2,2-Dimethylbutane  | 89.9                     | (ppm) | 70-130          |
| 2,3-Dimethylbutane  | 78.8       | (ppm) | 70-130                    | Pentanes            | 94.5                     | (ppm) | 0-200           |
| n-Pentane           | 70.8       | (ppm) | 70-130                    | iso-Pentane         | 71.9                     | (ppm) | 70-130          |
| Neopentane          | 100        | (ppm) | 50-150                    | Xylenes             | 83.7                     | (ppm) | 0-200           |
| 1,2-Dimethylbenzene | 82.7       | (ppm) | 70-130                    | 1,3-Dimethylbenzene | 85.2                     | (ppm) | 70-130          |
| 1,4-Dimethylbenzene | 85.4       | (ppm) | 70-130                    | Xylenes MP          | 83.2                     | (ppm) | 0-200           |
| Ethyl benzene       | 83.1       | (ppm) | 70-130                    | 2-Propanol (IPA)    | 93.6                     | (ppm) | 70-130          |
| Acetone             | 86.8       | (ppm) | 70-130                    | Acetonitrile        | 84.0                     | (ppm) | 70-130          |
| Benzene             | 87.8       | (ppm) | 70-130                    | Methanol            | 101                      | (ppm) | 70-130          |
| Propane             | 50.5       | (ppm) | 50-150                    | Toluene             | 86.7                     | (ppm) | 70-130          |
| Dichloromethane     | 99.0       | (ppm) | 70-130                    | 1,4-Dioxane         | 91.6                     | (ppm) | 70-130          |



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## Quality Control

Batch: P21H012 - SOP.T.40.031 Solvents (Continued)

| LCS(P21H012-BS1) |            |       | Extracted: 08/05/21 14:58 |                   | Analyzed: 08/06/21 09:48 |       |                 |
|------------------|------------|-------|---------------------------|-------------------|--------------------------|-------|-----------------|
| Analyte          | % Recovery | LOQ   | Recovery Limits           | Analyte           | % Recovery               | LOQ   | Recovery Limits |
| 2-Butanol        | 93.8       | (ppm) | 70-130                    | 2-Ethoxyethanol   | 94.9                     | (ppm) | 70-130          |
| Cumene           | 95.3       | (ppm) | 50-150                    | Cyclohexane       | 87.8                     | (ppm) | 70-130          |
| Ethyl acetate    | 86.2       | (ppm) | 70-130                    | Ethyl ether       | 92.2                     | (ppm) | 70-130          |
| Ethylene glycol  | 86.4       | (ppm) | 70-130                    | Ethylene oxide    | 79.2                     | (ppm) | 50-150          |
| Heptane          | 85.7       | (ppm) | 70-130                    | Isopropyl acetate | 89.9                     | (ppm) | 70-130          |
| Tetrahydrofuran  | 89.9       | (ppm) | 70-130                    |                   |                          |       |                 |



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