



This is an amended version of report# 24-006488/D001.R001.

Reason: updated sample name

**Customer:** NW Natural Goods  
**Product identity:** DPR0001  
**Client/Metric ID:** .  
**Laboratory ID:** 24-006488-0001

### Summary

#### Potency:

| Analyte per 4g | Result | Limits | Units | Status |                                        |
|----------------|--------|--------|-------|--------|----------------------------------------|
| CBD per 4g     | 0.272  |        | mg/4g |        | Delta-9-THC-Total per 10.6 mg/4g       |
| CBG per 4g     | 9.44   |        | mg/4g |        |                                        |
| Δ8-THC per 4g  | 0.163  |        | mg/4g |        | CBD-Total per Serving Size 0.272 mg/4g |
| Δ9-THC per 4g  | 10.6   |        | mg/4g |        | (Reported in milligrams per serving)   |

#### Residual Solvents:

All analytes passing and less than LOQ.

#### Pesticides:

| Analyte                         | Result<br>(mg/kg)      | Limits<br>(mg/kg) | Status |
|---------------------------------|------------------------|-------------------|--------|
| Multi-Residue Pesticide Profile | < LOQ for all analytes |                   |        |

#### Metals:

Less than LOQ for all analytes.

#### Microbiology:

Less than LOQ for all analytes.



12423 NE Whitaker Way  
Portland, OR 97230  
503-254-1794



**Report Number:** 24-006488/D001.R002  
**Report Date:** 07/24/2024  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 06/13/24 11:52

**Customer:** NW Natural Goods

**Product identity:** DPR0001  
**Client/Metric ID:** .  
**Sample Date:**  
**Laboratory ID:** 24-006488-0001  
**Evidence of Cooling:** No  
**Temp:** 19.7  
**Relinquished by:** ramos  
**Serving Size #1:** 4 g

### Sample Results

| Potency per 4g Method: J AOAC 2015 V98-6 (mod) <sup>b</sup> Units mg/se Batch: 2404586 Analyze: 6/18/24 12:47:00 AM |        |        |       |       |       |
|---------------------------------------------------------------------------------------------------------------------|--------|--------|-------|-------|-------|
| Analyte                                                                                                             | Result | Limits | Units | LOQ   | Notes |
| CBC per 4g                                                                                                          | < LOQ  |        | mg/4g | 0.126 |       |
| CBC-A per 4g                                                                                                        | < LOQ  |        | mg/4g | 0.126 |       |
| CBC-Total per 4g                                                                                                    | < LOQ  |        | mg/4g | 0.236 |       |
| CBD per 4g                                                                                                          | 0.272  |        | mg/4g | 0.126 |       |
| CBD-A per 4g <sup>1</sup>                                                                                           | < LOQ  |        | mg/4g | 0.126 |       |
| CBD-Total per 4g <sup>1</sup>                                                                                       | 0.272  |        | mg/4g | 0.236 |       |
| CBDV per 4g                                                                                                         | < LOQ  |        | mg/4g | 0.126 |       |
| CBDV-A per 4g                                                                                                       | < LOQ  |        | mg/4g | 0.126 |       |
| CBDV-Total per 4g                                                                                                   | < LOQ  |        | mg/4g | 0.234 |       |
| CBE per 4g                                                                                                          | < LOQ  |        | mg/4g | 0.126 |       |
| CBG per 4g                                                                                                          | 9.44   |        | mg/4g | 0.126 |       |
| CBG-A per 4g                                                                                                        | < LOQ  |        | mg/4g | 0.126 |       |
| CBG-Total per 4g                                                                                                    | 9.44   |        | mg/4g | 0.234 |       |
| CBL per 4g                                                                                                          | < LOQ  |        | mg/4g | 0.126 |       |
| CBL-A per 4g                                                                                                        | < LOQ  |        | mg/4g | 0.126 |       |
| CBL-Total per 4g                                                                                                    | < LOQ  |        | mg/4g | 0.236 |       |
| CBN per 4g                                                                                                          | < LOQ  |        | mg/4g | 0.126 |       |
| CBT per 4g                                                                                                          | < LOQ  |        | mg/4g | 0.126 |       |
| Δ10-THC-9R per 4g                                                                                                   | < LOQ  |        | mg/4g | 0.126 |       |
| Δ10-THC-9S per 4g                                                                                                   | < LOQ  |        | mg/4g | 0.126 |       |
| Δ10-THC-Total per 4g                                                                                                | < LOQ  |        | mg/4g | 0.251 |       |
| Δ8-THC per 4g <sup>1</sup>                                                                                          | 0.163  |        | mg/4g | 0.126 |       |
| Δ8-THCV per 4g                                                                                                      | < LOQ  |        | mg/4g | 0.126 |       |
| Δ9-THC per 4g <sup>1</sup>                                                                                          | 10.6   |        | mg/4g | 0.126 |       |
| Δ9-THC-Total per 4g                                                                                                 | 10.6   |        | mg/4g | 0.236 |       |
| Δ9-THCP per 4g                                                                                                      | < LOQ  |        | mg/4g | 0.126 |       |
| Δ9-THCV per 4g                                                                                                      | < LOQ  |        | mg/4g | 0.126 |       |
| Δ9-THCV-A per 4g                                                                                                    | < LOQ  |        | mg/4g | 0.126 |       |
| Δ9-THCV-Total per 4g                                                                                                | < LOQ  |        | mg/4g | 0.236 |       |
| exo-THC per 4g                                                                                                      | < LOQ  |        | mg/4g | 0.126 |       |
| THC-A per 4g <sup>1</sup>                                                                                           | < LOQ  |        | mg/4g | 0.126 |       |
| Total Cannabinoids per 4g                                                                                           | 20.4   |        | mg/4g |       |       |



### Microbiology

| Analyte                 | Result | Limits | Units | LOQ | Batch   | Analyzed Method                  | Status | Notes |
|-------------------------|--------|--------|-------|-----|---------|----------------------------------|--------|-------|
| E.coli                  | < LOQ  |        | cfu/g | 10  | 2404495 | 06/16/24 AOAC 991.14 (Petrifilm) |        |       |
| Total Coliforms         | < LOQ  |        | cfu/g | 10  | 2404495 | 06/16/24 AOAC 991.14 (Petrifilm) |        |       |
| Mold (RAPID Petrifilm)  | < LOQ  |        | cfu/g | 10  | 2404496 | 06/17/24 AOAC 2014.05 (RAPID)    |        |       |
| Yeast (RAPID Petrifilm) | < LOQ  |        | cfu/g | 10  | 2404496 | 06/17/24 AOAC 2014.05 (RAPID)    |        |       |

### Solvents

Method: Residual Solvents by HS-GC-MS<sup>b</sup> Units µg/g Batch 2404567 Analyze 06/18/24 11:43 AM

| Analyte                                | Result | Limits | LOQ  | Status | Notes | Analyte                                        | Result | Limits | LOQ  | Status | Notes |
|----------------------------------------|--------|--------|------|--------|-------|------------------------------------------------|--------|--------|------|--------|-------|
| 1,4-Dioxane <sup>1</sup>               | < LOQ  | 380    | 100  | pass   |       | 2-Butanol <sup>1</sup>                         | < LOQ  | 5000   | 200  | pass   |       |
| 2-Ethoxyethanol <sup>1</sup>           | < LOQ  | 160    | 30.0 | pass   |       | 2-Methylbutane (Isopentane) <sup>1</sup>       | < LOQ  |        | 200  |        |       |
| 2-Methylpentane <sup>1</sup>           | < LOQ  |        | 30.0 |        |       | 2-Propanol (IPA) <sup>1</sup>                  | < LOQ  | 5000   | 200  | pass   |       |
| 2,2-Dimethylbutane <sup>1</sup>        | < LOQ  |        | 30.0 |        |       | 2,2-Dimethylpropane (neo-pentane) <sup>1</sup> | < LOQ  |        | 200  |        |       |
| 2,3-Dimethylbutane <sup>1</sup>        | < LOQ  |        | 30.0 |        |       | 3-Methylpentane <sup>1</sup>                   | < LOQ  |        | 30.0 |        |       |
| Acetone <sup>1</sup>                   | < LOQ  | 5000   | 200  | pass   |       | Acetonitrile <sup>1</sup>                      | < LOQ  | 410    | 100  | pass   |       |
| Benzene <sup>1</sup>                   | < LOQ  | 2.00   | 1.00 | pass   |       | Butanes (sum) <sup>1</sup>                     | < LOQ  | 5000   | 400  | pass   |       |
| Cyclohexane <sup>1</sup>               | < LOQ  | 3880   | 200  | pass   |       | Ethyl acetate <sup>1</sup>                     | < LOQ  | 5000   | 200  | pass   |       |
| Ethyl benzene                          | < LOQ  |        | 200  |        |       | Ethyl ether <sup>1</sup>                       | < LOQ  | 5000   | 200  | pass   |       |
| Ethylene glycol <sup>1</sup>           | < LOQ  | 620    | 200  | pass   |       | Ethylene oxide <sup>1</sup>                    | < LOQ  | 50.0   | 20.0 | pass   |       |
| Hexanes (sum) <sup>1</sup>             | < LOQ  | 290    | 150  | pass   |       | Isopropyl acetate <sup>1</sup>                 | < LOQ  | 5000   | 200  | pass   |       |
| Isopropylbenzene (Cumene) <sup>1</sup> | < LOQ  | 70.0   | 30.0 | pass   |       | m,p-Xylene <sup>1</sup>                        | < LOQ  |        | 200  |        |       |
| Methanol <sup>1</sup>                  | < LOQ  | 3000   | 200  | pass   |       | Methylene chloride <sup>1</sup>                | < LOQ  | 600    | 60.0 | pass   |       |
| Methylpropane (Isobutane) <sup>1</sup> | < LOQ  |        | 200  |        |       | n-Butane <sup>1</sup>                          | < LOQ  |        | 200  |        |       |
| n-Heptane <sup>1</sup>                 | < LOQ  | 5000   | 200  | pass   |       | n-Hexane <sup>1</sup>                          | < LOQ  |        | 30.0 |        |       |
| n-Pentane <sup>1</sup>                 | < LOQ  |        | 200  |        |       | o-Xylene <sup>1</sup>                          | < LOQ  |        | 200  |        |       |
| Pentanes (sum)                         | < LOQ  | 5000   | 600  | pass   |       | Propane                                        | < LOQ  | 5000   | 200  | pass   |       |
| Tetrahydrofuran <sup>1</sup>           | < LOQ  | 720    | 100  | pass   |       | Toluene <sup>1</sup>                           | < LOQ  | 890    | 100  | pass   |       |
| Total Xylenes <sup>1</sup>             | < LOQ  |        | 400  |        |       | Total Xylenes and Ethyl benzene                | < LOQ  | 2170   | 600  | pass   |       |

### Pesticides

Method: AOAC 2007.01 & EN 15662 (mod) Units mg/kg Batch 2404675 Analyze 06/20/24 01:39 PM

| Analyte                         | Result                 | Limits | Status | Notes |
|---------------------------------|------------------------|--------|--------|-------|
| Multi-Residue Pesticide Profile | < LOQ for all analytes |        |        |       |



### Metals

| Analyte              | Result | Limits | Units | LOQ     | Batch   | Analyzed Method                           | Status | Notes |
|----------------------|--------|--------|-------|---------|---------|-------------------------------------------|--------|-------|
| Arsenic <sup>L</sup> | < LOQ  | 0.200  | mg/kg | 0.0173  | 2404535 | 06/14/24 AOAC 2013.06 (mod.) <sup>p</sup> | pass   |       |
| Cadmium <sup>L</sup> | < LOQ  | 0.200  | mg/kg | 0.0173  | 2404535 | 06/14/24 AOAC 2013.06 (mod.) <sup>p</sup> | pass   |       |
| Lead <sup>L</sup>    | < LOQ  | 0.500  | mg/kg | 0.0173  | 2404535 | 06/14/24 AOAC 2013.06 (mod.) <sup>p</sup> | pass   |       |
| Mercury <sup>L</sup> | < LOQ  | 0.100  | mg/kg | 0.00867 | 2404535 | 06/14/24 AOAC 2013.06 (mod.) <sup>p</sup> | pass   |       |

### Nutrition

| Analyte                   | Result | Limits | Units  | LOQ   | Batch   | Analyzed Method             | Status | Notes |
|---------------------------|--------|--------|--------|-------|---------|-----------------------------|--------|-------|
| Moisture (Loss on Drying) | 19.7   |        | g/100g | 0.10  | 2404568 | 06/17/24 AOAC 925.10 (mod.) |        |       |
| Water Activity            | 0.734  |        | Aw     | 0.030 | 2404559 | 06/17/24 AOAC 978.18        |        |       |

**Abbreviations**

**Limits:** Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220, CCR title 16-division 42. BCC-section 5723

**Limit(s) of Quantitation (LOQ):** The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

▷ = ISO/IEC 17025:2017 accredited method.

⊥ = TNI accredited analyte.

**Units of Measure**

cfu/g = Colony forming units per gram

g = Gram

g/100g = Grams per 100 Grams

µg/g = Microgram per gram

mg/kg = Milligram per kilogram = parts per million (ppm)

mg/4g = Milligram per 4g

% = Percentage of sample

A<sub>w</sub> = Water Activity

% wt = µg/g divided by 10,000

Approved Signatory



Derrick Tanner  
General Manager



12423 NE Whitaker Way  
Portland, OR 97230  
503-254-1794



Report Number: 24-006488/D001.R002  
Report Date: 07/24/2024  
ORELAP#: OR100028  
Purchase Order:  
Received: 06/13/24 11:52



Hemp & Cannabis  
Chain of Custody

Northwest-Natural-  
Goods-1718292247

ORELAP ID: OR1000028 ANAB ISO 17025 ID: AT1608

|                                                                                                                                                                            |                      |                                                                                                                                                                                                                                                                                                                                                                                                        |                 |                   |                                            |                                                    |                                             |                                           |                                                              |                                               |                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------------|--------------------------------------------|----------------------------------------------------|---------------------------------------------|-------------------------------------------|--------------------------------------------------------------|-----------------------------------------------|--------------------------------------------------|
| Company Details<br>Company: <u>Northwest Natural Goods</u><br>[Redacted]<br>[Redacted]<br>[Redacted]<br>[Redacted]<br>[Redacted]<br>[Redacted]<br>[Redacted]<br>[Redacted] |                      | Project Details<br>Turnaround Time: <u>5 Business Days   Req. For Micro Testing   Standard</u><br>Relinquishment   Sampling, Courier & Shipping Options: <u>Pick-Up Courier Service</u><br>Compliance: <u>Compliance</u><br>Project Name / ID: [Redacted]<br>Pick-Up Details<br>Pick-Up Location Name: <u>Northwest Natural Goods</u><br>[Redacted]<br>[Redacted]<br>[Redacted]<br>Receipt Information |                 |                   | Testing                                    |                                                    |                                             |                                           |                                                              |                                               |                                                  |
|                                                                                                                                                                            |                      |                                                                                                                                                                                                                                                                                                                                                                                                        |                 |                   | H0013 - Cannabis Heavy Metals Profile (OR) | P2320 - Multi-Residue Pesticide Profile (Cannabis) | M075 - E. coli/Coliform Count (EC) Petri Im | H0010 - Potency Cannabis (Basic+Expanded) | N3600 - Water Activity & Moisture (as Loss on Drying)   Food | H0008 - Residual Solvents (Cannabis - Oregon) | M283 - RAPID Yeast and Mold Count (RYM) Petri Im |
| #                                                                                                                                                                          | Sample Name          | Material                                                                                                                                                                                                                                                                                                                                                                                               | Amount Provided | Reporting Unit    | Serving Size                               |                                                    |                                             |                                           |                                                              |                                               |                                                  |
| 1                                                                                                                                                                          | HEMP - PRFULL SPECB2 | Cannabinoid Edible                                                                                                                                                                                                                                                                                                                                                                                     | 20 each         | mg/g & mg/serving | 4g                                         | ✓                                                  | ✓                                           | ✓                                         | ✓                                                            | ✓                                             | ✓                                                |

| Relinquished By | Date       | Time  | Temp., °C | Received By | Date       | Time  | Received Temp., °C | Evidence of Cooling? |
|-----------------|------------|-------|-----------|-------------|------------|-------|--------------------|----------------------|
| KRISTEN JOHNSON | 06/13/2024 | 08:24 |           | BR          | 06/13/2024 | 10:52 | 25                 | No                   |
| BR              | 06/13/2024 | 11:37 | 19.7      | rha         | 06/13/2024 | 11:52 | 25                 | No                   |

Samples submitted to Columbia Laboratories with testing requirements constitute an agreement for services in accordance with the [current terms of services](#) associated with this COC. By signing "Relinquished by" you are agreeing to these terms.

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Page 1 of 1  
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## Laboratory Quality Control Results

| Residual Solvents     |        |       |       | Batch ID: 2404567         |       |       |                    |
|-----------------------|--------|-------|-------|---------------------------|-------|-------|--------------------|
| Method Blank          |        |       |       | Laboratory Control Sample |       |       |                    |
| Analyte               | Result | LOQ   | Notes | Result                    | Spike | Units | % Rec Limits Notes |
| Propane               | ND     | < 200 |       | 587                       | 584   | µg/g  | 100.5 60 - 120     |
| Isobutane             | ND     | < 200 |       | 881                       | 767   | µg/g  | 114.9 60 - 120     |
| Butane                | ND     | < 200 |       | 900                       | 782   | µg/g  | 115.1 60 - 120     |
| 2,2-Dimethylpropane   | ND     | < 200 |       | 1010                      | 939   | µg/g  | 107.6 60 - 120     |
| Methanol              | ND     | < 200 |       | 1740                      | 1600  | µg/g  | 108.8 60 - 120     |
| Ethylene Oxide        | ND     | < 30  |       | 69.3                      | 57.1  | µg/g  | 121.4 60 - 120 Q1  |
| 2-Methylbutane        | ND     | < 200 |       | 1740                      | 1620  | µg/g  | 107.4 60 - 120     |
| Pentane               | ND     | < 200 |       | 1820                      | 1610  | µg/g  | 113.0 60 - 120     |
| Ethanol               | ND     | < 200 |       | 1670                      | 1600  | µg/g  | 104.4 70 - 130     |
| Ethyl Ether           | ND     | < 200 |       | 1570                      | 1610  | µg/g  | 97.5 60 - 120      |
| 2,2-Dimethylbutane    | ND     | < 30  |       | 189                       | 190   | µg/g  | 99.5 60 - 120      |
| Acetone               | ND     | < 200 |       | 1410                      | 1610  | µg/g  | 87.6 60 - 120      |
| 2-Propanol            | ND     | < 200 |       | 1600                      | 1610  | µg/g  | 99.4 60 - 120      |
| Ethyl Formate         | ND     | < 500 |       | 1380                      | 1630  | µg/g  | 84.7 70 - 130      |
| Acetonitrile          | ND     | < 100 |       | 486                       | 486   | µg/g  | 100.0 60 - 120     |
| Methyl Acetate        | ND     | < 500 |       | 1680                      | 1610  | µg/g  | 104.3 70 - 130     |
| 2,3-Dimethylbutane    | ND     | < 30  |       | 176                       | 163   | µg/g  | 108.0 60 - 120     |
| Dichloromethane       | ND     | < 60  |       | 454                       | 482   | µg/g  | 94.2 60 - 120      |
| 2-Methylpentane       | ND     | < 30  |       | 186                       | 178   | µg/g  | 104.5 60 - 120     |
| MTBE                  | ND     | < 500 |       | 1450                      | 1610  | µg/g  | 90.1 70 - 130      |
| 3-Methylpentane       | ND     | < 30  |       | 514                       | 490   | µg/g  | 104.9 60 - 120     |
| Hexane                | ND     | < 30  |       | 183                       | 175   | µg/g  | 104.6 60 - 120     |
| 1-Propanol            | ND     | < 500 |       | 1850                      | 1610  | µg/g  | 114.9 70 - 130     |
| Methylethylketone     | ND     | < 500 |       | 1660                      | 1610  | µg/g  | 103.1 70 - 130     |
| Ethyl acetate         | ND     | < 200 |       | 1590                      | 1600  | µg/g  | 99.4 60 - 120      |
| 2-Butanol             | ND     | < 200 |       | 1640                      | 1610  | µg/g  | 101.9 60 - 120     |
| Tetrahydrofuran       | ND     | < 100 |       | 504                       | 504   | µg/g  | 100.0 60 - 120     |
| Cyclohexane           | ND     | < 200 |       | 1730                      | 1620  | µg/g  | 106.8 60 - 120     |
| 2-methyl-1-propanol   | ND     | < 500 |       | 1660                      | 1610  | µg/g  | 103.1 70 - 130     |
| Benzene               | ND     | < 1   |       | 5.22                      | 5.08  | µg/g  | 102.8 60 - 120     |
| Isopropyl Acetate     | ND     | < 200 |       | 1740                      | 1610  | µg/g  | 108.1 60 - 120     |
| Heptane               | ND     | < 200 |       | 1920                      | 1610  | µg/g  | 119.3 60 - 120     |
| 1-Butanol             | ND     | < 500 |       | 1730                      | 1610  | µg/g  | 107.5 70 - 130     |
| Propyl Acetate        | ND     | < 500 |       | 1920                      | 1610  | µg/g  | 119.3 70 - 130     |
| 1,4-Dioxane           | ND     | < 100 |       | 474                       | 488   | µg/g  | 97.1 60 - 120      |
| 2-Ethoxyethanol       | ND     | < 30  |       | 160                       | 163   | µg/g  | 98.2 60 - 120      |
| Methylisobutylketone  | ND     | < 500 |       | 1820                      | 1620  | µg/g  | 112.3 70 - 130     |
| 3-Methyl-1-butanol    | ND     | < 500 |       | 1530                      | 1610  | µg/g  | 95.0 70 - 130      |
| Ethylene Glycol       | ND     | < 200 |       | 304                       | 488   | µg/g  | 62.3 60 - 120      |
| Toluene               | ND     | < 100 |       | 458                       | 492   | µg/g  | 93.1 60 - 120      |
| Isobutyl Acetate      | ND     | < 500 |       | 1950                      | 1620  | µg/g  | 120.4 70 - 130     |
| 1-Pentanol            | ND     | < 500 |       | 1770                      | 1610  | µg/g  | 109.9 70 - 130     |
| Butyl Acetate         | ND     | < 500 |       | 1890                      | 1650  | µg/g  | 114.5 70 - 130     |
| Ethylbenzene          | ND     | < 200 |       | 857                       | 969   | µg/g  | 88.4 60 - 120      |
| m,p-Xylene            | ND     | < 200 |       | 825                       | 981   | µg/g  | 84.1 60 - 120      |
| o-Xylene              | ND     | < 200 |       | 738                       | 966   | µg/g  | 76.4 60 - 120      |
| Cumene                | ND     | < 30  |       | 107                       | 167   | µg/g  | 64.1 60 - 120      |
| Anisole               | ND     | < 500 |       | 1010                      | 1610  | µg/g  | 62.7 70 - 130 Q6   |
| DMSO                  | ND     | < 500 |       | 712                       | 1610  | µg/g  | 44.2 70 - 130 Q6   |
| 1,2-dimethoxyethane   | ND     | < 50  |       | 198                       | 170   | µg/g  | 116.5 70 - 130     |
| Triethylamine         | ND     | < 500 |       | 120                       | 1620  | µg/g  | 7.4 70 - 130 Q6    |
| N,N-dimethylformamide | ND     | < 150 |       | 413                       | 499   | µg/g  | 82.8 70 - 130      |
| N,N-dimethylacetamide | ND     | < 150 |       | 340                       | 489   | µg/g  | 69.5 70 - 130 Q6   |
| Pyridine              | ND     | < 50  |       | 127                       | 167   | µg/g  | 76.0 70 - 130      |
| Sulfolane             | ND     | < 50  |       | 112                       | 169   | µg/g  | 66.3 70 - 130 Q6   |
| 1,2-Dichloroethane    | ND     | < 1   |       | 0.723                     | 1     | µg/g  | 72.3 70 - 130      |
| Chloroform            | ND     | < 1   |       | 0.854                     | 1     | µg/g  | 85.4 70 - 130      |
| Trichloroethylene     | ND     | < 1   |       | 0.962                     | 1     | µg/g  | 96.2 70 - 130      |
| 1,1-Dichloroethane    | ND     | < 1   |       | 0.808                     | 1     | µg/g  | 80.8 70 - 130      |



QC- Sample Duplicate

Sample ID: 24-006428-0001

| Analyte               | Result | Org. Result | LOQ Units | RPD | Limits | Accept/Fail | Notes |
|-----------------------|--------|-------------|-----------|-----|--------|-------------|-------|
| Propane               | ND     | ND          | 200 µg/g  | 0.0 | < 20   | Acceptable  |       |
| Isobutane             | ND     | ND          | 200 µg/g  | 0.0 | < 20   | Acceptable  |       |
| Butane                | ND     | ND          | 200 µg/g  | 0.0 | < 20   | Acceptable  |       |
| 2,2-Dimethylpropane   | ND     | ND          | 200 µg/g  | 0.0 | < 20   | Acceptable  |       |
| Methanol              | ND     | ND          | 200 µg/g  | 0.0 | < 20   | Acceptable  |       |
| Ethylene Oxide        | ND     | ND          | 30 µg/g   | 0.0 | < 20   | Acceptable  |       |
| 2-Methylbutane        | ND     | ND          | 200 µg/g  | 0.0 | < 20   | Acceptable  |       |
| Pentane               | ND     | ND          | 200 µg/g  | 0.0 | < 20   | Acceptable  |       |
| Ethanol               | ND     | ND          | 200 µg/g  | 0.0 | < 20   | Acceptable  |       |
| Ethyl Ether           | ND     | ND          | 200 µg/g  | 0.0 | < 20   | Acceptable  |       |
| 2,2-Dimethylbutane    | ND     | ND          | 30 µg/g   | 0.0 | < 20   | Acceptable  |       |
| Acetone               | ND     | ND          | 200 µg/g  | 0.0 | < 20   | Acceptable  |       |
| 2-Propanol            | ND     | ND          | 200 µg/g  | 0.0 | < 20   | Acceptable  |       |
| Ethyl Formate         | ND     | ND          | 500 µg/g  | 0.0 | < 20   | Acceptable  |       |
| Acetonitrile          | ND     | ND          | 100 µg/g  | 0.0 | < 20   | Acceptable  |       |
| Methyl Acetate        | ND     | ND          | 500 µg/g  | 0.0 | < 20   | Acceptable  |       |
| 2,3-Dimethylbutane    | ND     | ND          | 30 µg/g   | 0.0 | < 20   | Acceptable  |       |
| Dichloromethane       | ND     | ND          | 60 µg/g   | 0.0 | < 20   | Acceptable  |       |
| 2-Methylpentane       | ND     | ND          | 30 µg/g   | 0.0 | < 20   | Acceptable  |       |
| MTBE                  | ND     | ND          | 500 µg/g  | 0.0 | < 20   | Acceptable  |       |
| 3-Methylpentane       | ND     | ND          | 30 µg/g   | 0.0 | < 20   | Acceptable  |       |
| Hexane                | ND     | ND          | 30 µg/g   | 0.0 | < 20   | Acceptable  |       |
| 1-Propanol            | ND     | ND          | 500 µg/g  | 0.0 | < 20   | Acceptable  |       |
| Methylethylketone     | ND     | ND          | 500 µg/g  | 0.0 | < 20   | Acceptable  |       |
| Ethyl acetate         | ND     | ND          | 200 µg/g  | 0.0 | < 20   | Acceptable  |       |
| 2-Butanol             | ND     | ND          | 200 µg/g  | 0.0 | < 20   | Acceptable  |       |
| Tetrahydrofuran       | ND     | ND          | 100 µg/g  | 0.0 | < 20   | Acceptable  |       |
| Cyclohexane           | ND     | ND          | 200 µg/g  | 0.0 | < 20   | Acceptable  |       |
| 2-methyl-1-propanol   | ND     | ND          | 500 µg/g  | 0.0 | < 20   | Acceptable  |       |
| Benzene               | ND     | ND          | 1 µg/g    | 0.0 | < 20   | Acceptable  |       |
| Isopropyl Acetate     | ND     | ND          | 200 µg/g  | 0.0 | < 20   | Acceptable  |       |
| Heptane               | ND     | ND          | 200 µg/g  | 0.0 | < 20   | Acceptable  |       |
| 1-Butanol             | ND     | ND          | 500 µg/g  | 0.0 | < 20   | Acceptable  |       |
| Propyl Acetate        | ND     | ND          | 500 µg/g  | 0.0 | < 20   | Acceptable  |       |
| 1,4-Dioxane           | ND     | ND          | 100 µg/g  | 0.0 | < 20   | Acceptable  |       |
| 2-Ethoxyethanol       | ND     | ND          | 30 µg/g   | 0.0 | < 20   | Acceptable  |       |
| Methylisobutylketone  | ND     | ND          | 500 µg/g  | 0.0 | < 20   | Acceptable  |       |
| 3-Methyl-1-butanol    | ND     | ND          | 500 µg/g  | 0.0 | < 20   | Acceptable  |       |
| Ethylene Glycol       | ND     | ND          | 200 µg/g  | 0.0 | < 20   | Acceptable  |       |
| Toluene               | ND     | ND          | 100 µg/g  | 0.0 | < 20   | Acceptable  |       |
| Isobutyl Acetate      | ND     | ND          | 500 µg/g  | 0.0 | < 20   | Acceptable  |       |
| 1-Pentanol            | ND     | ND          | 500 µg/g  | 0.0 | < 20   | Acceptable  |       |
| Butyl Acetate         | ND     | ND          | 500 µg/g  | 0.0 | < 20   | Acceptable  |       |
| Ethylbenzene          | ND     | ND          | 200 µg/g  | 0.0 | < 20   | Acceptable  |       |
| m,p-Xylene            | ND     | ND          | 200 µg/g  | 0.0 | < 20   | Acceptable  |       |
| o-Xylene              | ND     | ND          | 200 µg/g  | 0.0 | < 20   | Acceptable  |       |
| Cumene                | ND     | ND          | 30 µg/g   | 0.0 | < 20   | Acceptable  |       |
| Anisole               | ND     | ND          | 500 µg/g  | 0.0 | < 20   | Acceptable  |       |
| DMSO                  | ND     | ND          | 500 µg/g  | 0.0 | < 20   | Acceptable  |       |
| 1,2-dimethoxyethane   | ND     | ND          | 50 µg/g   | 0.0 | < 20   | Acceptable  |       |
| Triethylamine         | ND     | ND          | 500 µg/g  | 0.0 | < 20   | Acceptable  |       |
| N,N-dimethylformamide | ND     | ND          | 150 µg/g  | 0.0 | < 20   | Acceptable  |       |
| N,N-dimethylacetamide | ND     | ND          | 150 µg/g  | 0.0 | < 20   | Acceptable  |       |
| Pyridine              | ND     | ND          | 50 µg/g   | 0.0 | < 20   | Acceptable  |       |
| Sulfolane             | ND     | ND          | 50 µg/g   | 0.0 | < 20   | Acceptable  |       |
| 1,2-Dichloroethane    | ND     | ND          | 1 µg/g    | 0.0 | < 20   | Acceptable  |       |
| Chloroform            | ND     | ND          | 1 µg/g    | 0.0 | < 20   | Acceptable  |       |
| Trichloroethylene     | ND     | ND          | 1 µg/g    | 0.0 | < 20   | Acceptable  |       |
| 1,1-Dichloroethane    | ND     | ND          | 1 µg/g    | 0.0 | < 20   | Acceptable  |       |

**Abbreviations**

 ND - None Detected at or above MRL  
 RPD - Relative Percent Difference  
 LOQ - Limit of Quantitation

**Units of Measure:**

µg/g- Microgram per gram or ppm



## Laboratory Quality Control Results

| JAOAC2015 V986            |     |        |         |       | Batch ID: 2404586 |           |       |            |       |
|---------------------------|-----|--------|---------|-------|-------------------|-----------|-------|------------|-------|
| Laboratory Control Sample |     |        |         |       |                   |           |       |            |       |
| Analyte                   | LCS | Result | Spike   | Units | % Rec             | Limits    |       | Evaluation | Notes |
| CBDVA                     | 2   | 0.0320 | 0.0313  | %     | 102               | 80.0      | - 120 | Acceptable |       |
| CBDV                      | 2   | 0.0319 | 0.0316  | %     | 101               | 80.0      | - 120 | Acceptable |       |
| CBE                       | 2   | 0.0317 | 0.0313  | %     | 101               | 80.0      | - 120 | Acceptable |       |
| CBDA                      | 1   | 0.0317 | 0.0309  | %     | 103               | 90.0      | - 110 | Acceptable |       |
| CBGA                      | 1   | 0.0313 | 0.0306  | %     | 102               | 80.0      | - 120 | Acceptable |       |
| CBG                       | 1   | 0.0303 | 0.0301  | %     | 101               | 80.0      | - 120 | Acceptable |       |
| CBD                       | 1   | 0.0328 | 0.0326  | %     | 101               | 90.0      | - 110 | Acceptable |       |
| THCV                      | 2   | 0.0337 | 0.0334  | %     | 101               | 80.0      | - 120 | Acceptable |       |
| d8THCV                    | 2   | 0.0343 | 0.0338  | %     | 102               | 80.0      | - 120 | Acceptable |       |
| THCVA                     | 2   | 0.0314 | 0.0307  | %     | 102               | 80.0      | - 120 | Acceptable |       |
| CBN                       | 1   | 0.0311 | 0.0306  | %     | 101               | 80.0      | - 120 | Acceptable |       |
| exo-THC                   | 2   | 0.0270 | 0.0273  | %     | 98.8              | 80.0      | - 120 | Acceptable |       |
| d9THC                     | 1   | 0.0327 | 0.0324  | %     | 101               | 90.0      | - 110 | Acceptable |       |
| d8THC                     | 1   | 0.0315 | 0.0317  | %     | 99.3              | 90.0      | - 110 | Acceptable |       |
| 9S-d10THC                 | 1   | 0.0313 | 0.0318  | %     | 98.2              | 80.0      | - 120 | Acceptable |       |
| CBL                       | 2   | 0.0306 | 0.0317  | %     | 96.5              | 80.0      | - 120 | Acceptable |       |
| 9S-HHC                    | 3   | 0.0313 | 0.0327  | %     | 95.7              | 80.0      | - 120 | Acceptable |       |
| 9R-d10THC                 | 1   | 0.0306 | 0.0341  | %     | 89.8              | 80.0      | - 120 | Acceptable |       |
| CBC                       | 2   | 0.0317 | 0.0320  | %     | 99.0              | 80.0      | - 120 | Acceptable |       |
| 9R-HHC                    | 3   | 0.0317 | 0.0331  | %     | 95.9              | 80.0      | - 120 | Acceptable |       |
| THCA                      | 1   | 0.0318 | 0.0306  | %     | 104               | 90.0      | - 110 | Acceptable |       |
| CBCA                      | 2   | 0.0327 | 0.0322  | %     | 101               | 80.0      | - 120 | Acceptable |       |
| CBLA                      | 2   | 0.0318 | 0.0323  | %     | 98.5              | 80.0      | - 120 | Acceptable |       |
| d9THCP                    | 2   | 0.0289 | 0.0313  | %     | 92.5              | 80.0      | - 120 | Acceptable |       |
| d8THCO                    | 3   | 0.0320 | 0.0323  | %     | 99.2              | 80.0      | - 120 | Acceptable |       |
| CBT                       | 2   | 0.0292 | 0.0319  | %     | 91.8              | 80.0      | - 120 | Acceptable |       |
| d9THCO                    | 3   | 0.0287 | 0.0301  | %     | 95.4              | 80.0      | - 120 | Acceptable |       |
| Method Blank              |     |        |         |       |                   |           |       |            |       |
| Analyte                   |     | Result | LOQ     | Units |                   | Limits    |       | Evaluation | Notes |
| CBDVA                     |     | <LOQ   | 0.00308 | %     |                   | < 0.00308 |       | Acceptable |       |
| CBDV                      |     | <LOQ   | 0.00308 | %     |                   | < 0.00308 |       | Acceptable |       |
| CBE                       |     | <LOQ   | 0.00308 | %     |                   | < 0.00308 |       | Acceptable |       |
| CBDA                      |     | <LOQ   | 0.00308 | %     |                   | < 0.00308 |       | Acceptable |       |
| CBGA                      |     | <LOQ   | 0.00308 | %     |                   | < 0.00308 |       | Acceptable |       |
| CBG                       |     | <LOQ   | 0.00308 | %     |                   | < 0.00308 |       | Acceptable |       |
| CBD                       |     | <LOQ   | 0.00308 | %     |                   | < 0.00308 |       | Acceptable |       |
| THCV                      |     | <LOQ   | 0.00308 | %     |                   | < 0.00308 |       | Acceptable |       |
| d8THCV                    |     | <LOQ   | 0.00308 | %     |                   | < 0.00308 |       | Acceptable |       |
| THCVA                     |     | <LOQ   | 0.00308 | %     |                   | < 0.00308 |       | Acceptable |       |
| CBN                       |     | <LOQ   | 0.00308 | %     |                   | < 0.00308 |       | Acceptable |       |
| exo-THC                   |     | <LOQ   | 0.00308 | %     |                   | < 0.00308 |       | Acceptable |       |
| d9THC                     |     | <LOQ   | 0.00308 | %     |                   | < 0.00308 |       | Acceptable |       |
| d8THC                     |     | <LOQ   | 0.00308 | %     |                   | < 0.00308 |       | Acceptable |       |
| 9S-d10THC                 |     | <LOQ   | 0.00308 | %     |                   | < 0.00308 |       | Acceptable |       |
| CBL                       |     | <LOQ   | 0.00308 | %     |                   | < 0.00308 |       | Acceptable |       |
| 9S-HHC                    |     | <LOQ   | 0.00308 | %     |                   | < 0.00308 |       | Acceptable |       |
| 9R-d10THC                 |     | <LOQ   | 0.00308 | %     |                   | < 0.00308 |       | Acceptable |       |
| CBC                       |     | <LOQ   | 0.00308 | %     |                   | < 0.00308 |       | Acceptable |       |
| 9R-HHC                    |     | <LOQ   | 0.00308 | %     |                   | < 0.00308 |       | Acceptable |       |
| THCA                      |     | <LOQ   | 0.00308 | %     |                   | < 0.00308 |       | Acceptable |       |
| CBCA                      |     | <LOQ   | 0.00308 | %     |                   | < 0.00308 |       | Acceptable |       |
| CBLA                      |     | <LOQ   | 0.00308 | %     |                   | < 0.00308 |       | Acceptable |       |
| d9THCP                    |     | <LOQ   | 0.00308 | %     |                   | < 0.00308 |       | Acceptable |       |
| d8THCO                    |     | <LOQ   | 0.00308 | %     |                   | < 0.00308 |       | Acceptable |       |
| CBT                       |     | <LOQ   | 0.00308 | %     |                   | < 0.00308 |       | Acceptable |       |
| d9THCO                    |     | <LOQ   | 0.00308 | %     |                   | < 0.00308 |       | Acceptable |       |

## Abbreviations

ND - None Detected at or above MRI



## Laboratory Quality Control Results

| JAOAC2015 V986   |         |             | Batch ID: 2404586          |       |       |        |            |       |
|------------------|---------|-------------|----------------------------|-------|-------|--------|------------|-------|
| Sample Duplicate |         |             | Sample ID: 24-005994000101 |       |       |        |            |       |
| Analyte          | Result  | Org. Result | LOQ                        | Units | RPD   | Limits | Evaluation | Notes |
| CBDVA            | <LOQ    | <LOQ        | 0.00312                    | %     | NA    | < 20   | Acceptable |       |
| CBDV             | <LOQ    | <LOQ        | 0.00312                    | %     | NA    | < 20   | Acceptable |       |
| CBE              | 0.00483 | 0.00511     | 0.00312                    | %     | 5.53  | < 20   | Acceptable |       |
| CBDA             | <LOQ    | <LOQ        | 0.00312                    | %     | NA    | < 20   | Acceptable |       |
| CBGA             | <LOQ    | <LOQ        | 0.00312                    | %     | NA    | < 20   | Acceptable |       |
| CBG              | <LOQ    | <LOQ        | 0.00312                    | %     | NA    | < 20   | Acceptable |       |
| CBD              | 0.00460 | 0.00459     | 0.00312                    | %     | 0.262 | < 20   | Acceptable |       |
| THCV             | <LOQ    | <LOQ        | 0.00312                    | %     | NA    | < 20   | Acceptable |       |
| d8THCV           | 0.0227  | 0.0221      | 0.00312                    | %     | 3.05  | < 20   | Acceptable |       |
| THCVA            | <LOQ    | <LOQ        | 0.00312                    | %     | NA    | < 20   | Acceptable |       |
| CBN              | 0.0144  | 0.0145      | 0.00312                    | %     | 0.474 | < 20   | Acceptable |       |
| exo-THC          | <LOQ    | <LOQ        | 0.00312                    | %     | NA    | < 20   | Acceptable |       |
| d9THC            | 0.353   | 0.349       | 0.00312                    | %     | 1.01  | < 20   | Acceptable |       |
| d8THC            | 1.15    | 1.16        | 0.00312                    | %     | 0.847 | < 20   | Acceptable |       |
| 9S-d10THC        | <LOQ    | <LOQ        | 0.00312                    | %     | NA    | < 20   | Acceptable |       |
| CBL              | <LOQ    | <LOQ        | 0.00312                    | %     | NA    | < 20   | Acceptable |       |
| 9S-HHC           | 0.118   | 0.119       | 0.00312                    | %     | 0.941 | < 20   | Acceptable |       |
| 9R-d10THC        | <LOQ    | <LOQ        | 0.00312                    | %     | NA    | < 20   | Acceptable |       |
| CBC              | <LOQ    | <LOQ        | 0.00312                    | %     | NA    | < 20   | Acceptable |       |
| 9R-HHC           | 0.138   | 0.139       | 0.00312                    | %     | 0.265 | < 20   | Acceptable |       |
| THCA             | <LOQ    | <LOQ        | 0.00312                    | %     | NA    | < 20   | Acceptable |       |
| CBCA             | <LOQ    | <LOQ        | 0.00312                    | %     | NA    | < 20   | Acceptable |       |
| CBLA             | <LOQ    | <LOQ        | 0.00312                    | %     | NA    | < 20   | Acceptable |       |
| d9THCP           | <LOQ    | <LOQ        | 0.00312                    | %     | NA    | < 20   | Acceptable |       |
| d8THCO           | <LOQ    | <LOQ        | 0.00312                    | %     | NA    | < 20   | Acceptable |       |
| CBT              | <LOQ    | <LOQ        | 0.00312                    | %     | NA    | < 20   | Acceptable |       |
| d9THCO           | <LOQ    | <LOQ        | 0.00312                    | %     | NA    | < 20   | Acceptable |       |

## Abbreviations

ND - None Detected at or above MRL  
 RPD - Relative Percent Difference  
 LOQ - Limit of Quantitation

## Units of Measure:

% - Percent



12423 NE Whitaker Way  
Portland, OR 97230  
503-254-1794



**Report Number:** 24-006488/D001.R002  
**Report Date:** 07/24/2024  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 06/13/24 11:52





Explanation of QC Flag Comments:

| Code | Explanation                                                                                 |
|------|---------------------------------------------------------------------------------------------|
| Q    | Matrix interferences affecting spike or surrogate recoveries.                               |
| Q1   | Quality control result biased high. Only non-detect samples reported.                       |
| Q2   | Quality control outside QC limits. Data considered estimate.                                |
| Q3   | Sample concentration greater than four times the amount spiked.                             |
| Q4   | Non-homogenous sample matrix, affecting RPD result and/or % recoveries.                     |
| Q5   | Spike results above calibration curve.                                                      |
| Q6   | Quality control outside QC limits. Data acceptable based on remaining QC.                   |
| R    | Relative percent difference (RPD) outside control limit.                                    |
| R1   | RPD non-calculable, as sample or duplicate results are less than five times the LOQ.        |
| R2   | Sample replicates RPD non-calculable, as only one replicate is within the analytical range. |
| LOQ1 | Quantitation level raised due to low sample volume and/or dilution.                         |
| LOQ2 | Quantitation level raised due to matrix interference.                                       |
| B    | Analyte detected in method blank, but not in associated samples.                            |
| B1   | The sample concentration is greater than 5 times the blank concentration.                   |
| B2   | The sample concentration is less than 5 times the blank concentration.                      |