



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



Report Number: 23-002243/D002.R000
Report Date: 03/01/2023
ORELAP#: OR100028
Purchase Order:
Received: 02/22/23 12:11

Customer: NW Natural Goods
Product identity: HEMP- BB 0094
Client/Metric ID: .
Laboratory ID: 23-002243-0001

Summary

Potency:

| Analyte per 4g | Result | Limits | Units | Status | |
|----------------|--------|--------|-------|--------|---------------------------------------|
| CBC per 4g | 0.225 | | mg/4g | | CBD-Total per Serving Size 26.0 mg/4g |
| CBD per 4g | 26.0 | | mg/4g | | |
| CBG per 4g | 0.732 | | mg/4g | | THC-Total per Serving Size <LOQ |
| | | | | | (Reported in milligrams per serving) |

Residual Solvents:

All analytes passing and less than LOQ.

Pesticides:

| Analyte | Result (mg/kg) | Limits (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.



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Customer: NW Natural Goods

Product identity: HEMP- BB 0094

Client/Metric ID: .

Sample Date:

Laboratory ID: 23-002243-0001

Evidence of Cooling: No

Temp: 14.9

Relinquished by: hinton

Serving Size #1: 4 g

Sample Results

| Potency per 4g | | Method: J AOAC 2015 V98-6 (mod) ^b | | Units mg/se | Batch: 2301799 | Analyze: 2/28/23 4:43:00 AM |
|---------------------------|--------|--|-------|-------------|----------------|-----------------------------|
| Analyte | Result | Limits | Units | LOQ | Notes | |
| CBC per 4g | 0.225 | | mg/4g | 0.130 | | |
| CBC-A per 4g | < LOQ | | mg/4g | 0.130 | | |
| CBC-Total per 4g | < LOQ | | mg/4g | 0.245 | | |
| CBD per 4g | 26.0 | | mg/4g | 0.130 | | |
| CBD-A per 4g | < LOQ | | mg/4g | 0.130 | | |
| CBD-Total per 4g | 26.0 | | mg/4g | 0.245 | | |
| CBDV per 4g | < LOQ | | mg/4g | 0.130 | | |
| CBDV-A per 4g | < LOQ | | mg/4g | 0.130 | | |
| CBDV-Total per 4g | < LOQ | | mg/4g | 0.243 | | |
| CBE per 4g | < LOQ | | mg/4g | 0.130 | | |
| CBG per 4g | 0.732 | | mg/4g | 0.130 | | |
| CBG-A per 4g | < LOQ | | mg/4g | 0.130 | | |
| CBG-Total per 4g | 0.732 | | mg/4g | 0.243 | | |
| CBL per 4g | < LOQ | | mg/4g | 0.130 | | |
| CBL-A per 4g | < LOQ | | mg/4g | 0.130 | | |
| CBL-Total per 4g | < LOQ | | mg/4g | 0.245 | | |
| CBN per 4g | < LOQ | | mg/4g | 0.130 | | |
| CBT per 4g | < LOQ | | mg/4g | 0.130 | | |
| Δ8-THCV per 4g | < LOQ | | mg/4g | 0.130 | | |
| Δ10-THC-9R per 4g | < LOQ | | mg/4g | 0.130 | | |
| Δ10-THC-9S per 4g | < LOQ | | mg/4g | 0.130 | | |
| Δ10-THC-Total per 4g | < LOQ | | mg/4g | 0.261 | | |
| Δ8-THC per 4g | < LOQ | | mg/4g | 0.130 | | |
| Δ9-THC per 4g | < LOQ | | mg/4g | 0.130 | | |
| exo-THC per 4g | < LOQ | | mg/4g | 0.130 | | |
| THC-A per 4g | < LOQ | | mg/4g | 0.130 | | |
| THC-Total per 4g | < LOQ | | mg/4g | 0.245 | | |
| THCV per 4g | < LOQ | | mg/4g | 0.130 | | |
| THCV-A per 4g | < LOQ | | mg/4g | 0.130 | | |
| THCV-Total per 4g | < LOQ | | mg/4g | 0.245 | | |
| Total Cannabinoids per 4g | 27.0 | | mg/4g | | | |



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Microbiology

| Analyte | Result | Limits | Units | LOQ | Batch | Analyzed Method | Status | Notes |
|-------------------------|--------|--------|-------|-----|---------|---|--------|-------|
| E.coli | < LOQ | | cfu/g | 10 | 2301702 | 02/25/23 AOAC 991.14 (Petrifilm) [®] | | |
| Total Coliforms | < LOQ | | cfu/g | 10 | 2301702 | 02/25/23 AOAC 991.14 (Petrifilm) [®] | | |
| Mold (RAPID Petrifilm) | < LOQ | | cfu/g | 10 | 2301701 | 02/26/23 AOAC 2014.05 (RAPID) [®] | | |
| Yeast (RAPID Petrifilm) | < LOQ | | cfu/g | 10 | 2301701 | 02/26/23 AOAC 2014.05 (RAPID) [®] | | |

Solvents Method: Residual Solvents by GC/MS[®] Units µg/g Batch 2301804 Analyze 02/28/23 02:19 PM

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

Pesticides Method: AOAC 2007.01 & EN 15662 (mod)[®] Units mg/kg Batch 2301845 Analyze 03/01/23 12:50 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 | < LOQ | 0.200 | mg/kg | 0.0174 | 2301817 | 02/28/23 AOAC 2013.06 (mod.) [®] | pass | |
| Cadmium | < LOQ | 0.200 | mg/kg | 0.0174 | 2301817 | 02/28/23 AOAC 2013.06 (mod.) [®] | pass | |
| Lead | < LOQ | 0.500 | mg/kg | 0.0174 | 2301817 | 02/28/23 AOAC 2013.06 (mod.) [®] | pass | |
| Mercury | < LOQ | 0.100 | mg/kg | 0.00868 | 2301817 | 02/28/23 AOAC 2013.06 (mod.) [®] | pass | |



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Nutrition

| Analyte | Result | Limits | Units | LOQ | Batch | Analyzed Method | Status | Notes |
|---------------------------|--------|--------|--------|-------|---------|--|--------|-------|
| Moisture (Loss on Drying) | 18.6 | | g/100g | 0.10 | 2301767 | 02/27/23 AOAC 925.10 (mod.) ^p | | |
| Water Activity | 0.691 | | Aw | 0.030 | 2301757 | 02/27/23 AOAC 978.18 ^p | | |



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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.

^p = ISO/IEC 17025:2017 accredited method.

Units of Measure

cfu/g = Colony forming units per gram

g = g

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

Aw = Water Activity

% wt = µg/g divided by 10,000

Approved Signatory

Derrick Tanner
General Manager



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Hemp & Cannabis: Usable / Extract / Finished Product

Chain of Custody Record

ORELAP ID: OR100028 ANAB ISO 17025 ID: A

NWNATURALGOODS 23-002243

Document Control ID: 2832 Revision: 5
 Effective: 01/04/2022

| Company: Northwest Natural Goods Contact: Annie Nair Address: 11791 SE HWY 212 City: Clackamas State: OR Zip Code: 97015 <input checked="" type="checkbox"/> Email Results: annienair@nwnaturalgoods.com <input type="checkbox"/> Ph: () - <i>Billing Contact (if different)</i> Name: Email: Address: City: State: Zip: Ph: () - | | | Analysis Req  NW Natural Goods Custom reporting: Source Material: <input type="checkbox"/> - Ind. Hemp product <input type="checkbox"/> - Rec. Cannabis Reporting Type: <input type="checkbox"/> - Compliance <input type="checkbox"/> - R&D Report to: <input type="checkbox"/> - METRC <input type="checkbox"/> - ODA <input type="checkbox"/> - USDA <input type="checkbox"/> - Other: Turnaround time (TAT - Business Days): <input checked="" type="checkbox"/> - 5BD <input type="checkbox"/> - 3BD* <input type="checkbox"/> - 2BD* <i>*Check for availability</i> | | | | | | | | | | | | | |
|--|------------------------------|-------------|--|---|---|-------------------|----------------|----------------------------------|--------------------------------|--|--------------|------------|-----------------|----------------|--------------------|--|
| Lab ID | Client Sample Identification | Sample date | Pesticides - OR 59 Compounds | Pesticide Multi-Residue - 379 compounds | Potency | Residual Solvents | Water Activity | Moisture | Micro: Yeast and Mold | Micro: E.Coli and Total Coliform | Heavy Metals | Mycotoxins | Material Type † | Weight (Units) | Comments/Metric ID | |
| | HEMP - BB 0094 | 02/22/23 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | 80g | | |
| Signature - Relinquished By: Annie Nair MRA | | | Date: 02/22/23 2/22 | Time: 10:59 | Signature - Received By: MRA RBS | | | Date: 2/22 02/22/23 | Time: 10:20 12:11 | Lab Use Only: <input type="checkbox"/> Shipped Via: _____ or <input type="checkbox"/> Client drop off Evidence of cooling: <input type="checkbox"/> Yes <input type="checkbox"/> No - Temp (°C): 14.9 Sample in good condition: <input type="checkbox"/> Yes <input type="checkbox"/> No Payment: <input type="checkbox"/> Cash <input type="checkbox"/> Check <input type="checkbox"/> CC <input type="checkbox"/> Net: Prelog storage: | | | | | | |

† - Material Type Codes: Plant Material (P) ; Isolate (I) ; Concentrate/Extract (C) ; Tincture/Topical (T) ; Edible (E) ; Beverage (B) ; Vapor Product (V)

Samples submitted to Columbia Laboratories with testing requirements constitute an agreement for services in accordance with the current terms of service associated with this C.O.C. By signing "Relinquished by" you are agreeing to these terms
 12423 NE Whitaker Way P: (503) 254-1794 | Fax: (503) 254-1452 info@columbiaboratories.com Page _____ of _____ www.columbiaboratories.com
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Received: 02/22/23 12:11

Revision: 1 Document ID: 7148
Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

JAOAC2015 V98-6 Batch ID: 2301799

| Laboratory Control Sample | | | | | | | | | |
|---------------------------|-----|--------|-------|-------|-------|--------|-------|------------|-------|
| Analyte | LCS | Result | Spike | Units | % Rec | Limits | | Evaluation | Notes |
| CBDVA | 2 | 0.0347 | 0.033 | % | 105 | 80.0 | - 120 | Acceptable | |
| CBDV | 2 | 0.0374 | 0.035 | % | 106 | 80.0 | - 120 | Acceptable | |
| CBE | 2 | 0.0358 | 0.034 | % | 105 | 80.0 | - 120 | Acceptable | |
| CBDA | 1 | 0.0332 | 0.032 | % | 104 | 90.0 | - 110 | Acceptable | |
| CBGA | 1 | 0.0331 | 0.032 | % | 104 | 80.0 | - 120 | Acceptable | |
| CBG | 1 | 0.0348 | 0.033 | % | 105 | 80.0 | - 120 | Acceptable | |
| CBD | 1 | 0.0335 | 0.033 | % | 101 | 90.0 | - 110 | Acceptable | |
| THCV | 2 | 0.0357 | 0.033 | % | 107 | 80.0 | - 120 | Acceptable | |
| d8THCV | 2 | 0.0371 | 0.036 | % | 103 | 80.0 | - 120 | Acceptable | |
| THCVA | 2 | 0.0341 | 0.033 | % | 104 | 80.0 | - 120 | Acceptable | |
| CBN | 1 | 0.0348 | 0.033 | % | 104 | 80.0 | - 120 | Acceptable | |
| exo-THC | 2 | 0.0345 | 0.034 | % | 103 | 80.0 | - 120 | Acceptable | |
| d9THC | 1 | 0.0348 | 0.033 | % | 106 | 90.0 | - 110 | Acceptable | |
| d8THC | 1 | 0.0346 | 0.034 | % | 102 | 90.0 | - 110 | Acceptable | |
| 9S-d10THC | 1 | 0.0350 | 0.034 | % | 102 | 80.0 | - 120 | Acceptable | |
| CBL | 2 | 0.0360 | 0.033 | % | 108 | 80.0 | - 120 | Acceptable | |
| 9R-d10THC | 1 | 0.0325 | 0.032 | % | 102 | 80.0 | - 120 | Acceptable | |
| CBC | 2 | 0.0371 | 0.036 | % | 104 | 80.0 | - 120 | Acceptable | |
| THCA | 1 | 0.0332 | 0.032 | % | 103 | 90.0 | - 110 | Acceptable | |
| CBCA | 2 | 0.0356 | 0.035 | % | 102 | 80.0 | - 120 | Acceptable | |
| CBLA | 2 | 0.0359 | 0.035 | % | 103 | 80.0 | - 120 | Acceptable | |
| CBT | 2 | 0.0356 | 0.036 | % | 100 | 80.0 | - 120 | Acceptable | |

| Method Blank | | | | | | |
|--------------|--------|-------|-------|---------|------------|-------|
| Analyte | Result | LOQ | Units | Limits | Evaluation | Notes |
| CBDVA | <LOQ | 0.003 | % | < 0.003 | Acceptable | |
| CBDV | <LOQ | 0.003 | % | < 0.003 | Acceptable | |
| CBE | <LOQ | 0.003 | % | < 0.003 | Acceptable | |
| CBDA | <LOQ | 0.003 | % | < 0.003 | Acceptable | |
| CBGA | <LOQ | 0.003 | % | < 0.003 | Acceptable | |
| CBG | <LOQ | 0.003 | % | < 0.003 | Acceptable | |
| CBD | <LOQ | 0.003 | % | < 0.003 | Acceptable | |
| THCV | <LOQ | 0.003 | % | < 0.003 | Acceptable | |
| d8THCV | <LOQ | 0.003 | % | < 0.003 | Acceptable | |
| THCVA | <LOQ | 0.003 | % | < 0.003 | Acceptable | |
| CBN | <LOQ | 0.003 | % | < 0.003 | Acceptable | |
| exo-THC | <LOQ | 0.003 | % | < 0.003 | Acceptable | |
| d9THC | <LOQ | 0.003 | % | < 0.003 | Acceptable | |
| d8THC | <LOQ | 0.003 | % | < 0.003 | Acceptable | |
| 9S-d10THC | <LOQ | 0.003 | % | < 0.003 | Acceptable | |
| CBL | <LOQ | 0.003 | % | < 0.003 | Acceptable | |
| 9R-d10THC | <LOQ | 0.003 | % | < 0.003 | Acceptable | |
| CBC | <LOQ | 0.003 | % | < 0.003 | Acceptable | |
| THCA | <LOQ | 0.003 | % | < 0.003 | Acceptable | |
| CBCA | <LOQ | 0.003 | % | < 0.003 | Acceptable | |
| CBLA | <LOQ | 0.003 | % | < 0.003 | Acceptable | |
| CBT | <LOQ | 0.003 | % | < 0.003 | Acceptable | |

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

Units of Measure:
% - Percent



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Laboratory Quality Control Results

| JAOAC2015 V98-6 | | Batch ID: 2301799 | | | | | | |
|------------------|--------|---------------------------|-------|-------|-------|--------|------------|-------|
| Sample Duplicate | | Sample ID: 23-002200-0001 | | | | | | |
| Analyte | Result | Org. Result | LOQ | Units | RPD | Limits | Evaluation | Notes |
| CBDVA | <LOQ | <LOQ | 0.003 | % | NA | < 20 | Acceptable | |
| CBDV | <LOQ | <LOQ | 0.003 | % | NA | < 20 | Acceptable | |
| CBE | <LOQ | <LOQ | 0.003 | % | NA | < 20 | Acceptable | |
| CBD | <LOQ | <LOQ | 0.003 | % | NA | < 20 | Acceptable | |
| CBDV | <LOQ | <LOQ | 0.003 | % | NA | < 20 | Acceptable | |
| CBG | 0.0088 | 0.0087 | 0.003 | % | 0.540 | < 20 | Acceptable | |
| CBD | <LOQ | <LOQ | 0.003 | % | NA | < 20 | Acceptable | |
| THCV | <LOQ | <LOQ | 0.003 | % | NA | < 20 | Acceptable | |
| d8THCV | <LOQ | <LOQ | 0.003 | % | NA | < 20 | Acceptable | |
| THCVA | <LOQ | <LOQ | 0.003 | % | NA | < 20 | Acceptable | |
| CBN | <LOQ | <LOQ | 0.003 | % | NA | < 20 | Acceptable | |
| exo-THC | <LOQ | <LOQ | 0.003 | % | NA | < 20 | Acceptable | |
| d9THC | 0.259 | 0.258 | 0.003 | % | 0.439 | < 20 | Acceptable | |
| d8THC | <LOQ | <LOQ | 0.003 | % | NA | < 20 | Acceptable | |
| 9S-d10THC | <LOQ | <LOQ | 0.003 | % | NA | < 20 | Acceptable | |
| CBL | <LOQ | <LOQ | 0.003 | % | NA | < 20 | Acceptable | |
| 9R-d10THC | <LOQ | <LOQ | 0.003 | % | NA | < 20 | Acceptable | |
| CBC | 0.0035 | 0.0035 | 0.003 | % | 0.239 | < 20 | Acceptable | |
| THCA | <LOQ | <LOQ | 0.003 | % | NA | < 20 | Acceptable | |
| CBCA | <LOQ | <LOQ | 0.003 | % | NA | < 20 | Acceptable | |
| CBLA | <LOQ | <LOQ | 0.003 | % | NA | < 20 | Acceptable | |
| CBT | <LOQ | <LOQ | 0.003 | % | NA | < 20 | Acceptable | |

Abbreviations

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

Units of Measure:

% - Percent



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Revision: 2 Document ID: 7087
 Legacy ID: CFL-E33Effective:

Laboratory Quality Control Results

| Residual Solvents | | | | Batch ID: 2301804 | | | | | |
|-----------------------|--------|-------|-------|---------------------------|-------|-------|-------|----------|-------|
| Method Blank | | | | Laboratory Control Sample | | | | | |
| Analyte | Result | LOQ | Notes | Result | Spike | Units | % Rec | Limits | Notes |
| Propane | ND | < 200 | | 461 | 572 | µg/g | 80.6 | 60 - 120 | |
| Isobutane | ND | < 200 | | 600 | 731 | µg/g | 82.1 | 60 - 120 | |
| Butane | ND | < 200 | | 598 | 731 | µg/g | 81.8 | 60 - 120 | |
| 2,2-Dimethylpropane | ND | < 200 | | 748 | 936 | µg/g | 79.9 | 60 - 120 | |
| Methanol | ND | < 200 | | 1420 | 1620 | µg/g | 87.7 | 60 - 120 | |
| Ethylene Oxide | ND | < 30 | | 43.9 | 56.2 | µg/g | 78.1 | 60 - 120 | |
| 2-Methylbutane | ND | < 200 | | 1380 | 1610 | µg/g | 85.7 | 60 - 120 | |
| Pentane | ND | < 200 | | 1400 | 1600 | µg/g | 87.5 | 60 - 120 | |
| Ethanol | ND | < 200 | | 1400 | 1610 | µg/g | 87.0 | 70 - 130 | |
| Ethyl Ether | ND | < 200 | | 1430 | 1630 | µg/g | 87.7 | 60 - 120 | |
| 2,2-Dimethylbutane | ND | < 30 | | 149 | 171 | µg/g | 87.1 | 60 - 120 | |
| Acetone | ND | < 200 | | 1410 | 1630 | µg/g | 86.5 | 60 - 120 | |
| 2-Propanol | ND | < 200 | | 1410 | 1620 | µg/g | 87.0 | 60 - 120 | |
| Ethyl Formate | ND | < 500 | | 1560 | 1670 | µg/g | 93.4 | 70 - 130 | |
| Acetonitrile | ND | < 100 | | 421 | 498 | µg/g | 84.5 | 60 - 120 | |
| Methyl Acetate | ND | < 500 | | 1560 | 1730 | µg/g | 90.2 | 70 - 130 | |
| 2,3-Dimethylbutane | ND | < 30 | | 147 | 171 | µg/g | 86.0 | 60 - 120 | |
| Dichloromethane | ND | < 60 | | 414 | 483 | µg/g | 85.7 | 60 - 120 | |
| 2-Methylpentane | ND | < 30 | | 147 | 168 | µg/g | 87.5 | 60 - 120 | |
| MTBE | ND | < 500 | | 1510 | 1650 | µg/g | 91.5 | 70 - 130 | |
| 3-Methylpentane | ND | < 30 | | 134 | 167 | µg/g | 80.2 | 60 - 120 | |
| Hexane | ND | < 30 | | 189 | 182 | µg/g | 103.8 | 60 - 120 | |
| 1-Propanol | ND | < 500 | | 1420 | 1620 | µg/g | 87.7 | 70 - 130 | |
| Methylethylketone | ND | < 500 | | 1440 | 1620 | µg/g | 88.9 | 70 - 130 | |
| Ethyl acetate | ND | < 200 | | 1370 | 1610 | µg/g | 85.1 | 60 - 120 | |
| 2-Butanol | ND | < 200 | | 1370 | 1600 | µg/g | 85.6 | 60 - 120 | |
| Tetrahydrofuran | ND | < 100 | | 425 | 483 | µg/g | 88.0 | 60 - 120 | |
| Cyclohexane | ND | < 200 | | 1420 | 1610 | µg/g | 88.2 | 60 - 120 | |
| 2-methyl-1-propanol | ND | < 500 | | 1430 | 1620 | µg/g | 88.3 | 70 - 130 | |
| Benzene | ND | < 1 | | 5.04 | 5.02 | µg/g | 100.4 | 60 - 120 | |
| Isopropyl Acetate | ND | < 200 | | 1380 | 1620 | µg/g | 85.2 | 60 - 120 | |
| Heptane | ND | < 200 | | 1350 | 1610 | µg/g | 83.9 | 60 - 120 | |
| 1-Butanol | ND | < 500 | | 1460 | 1630 | µg/g | 89.6 | 70 - 130 | |
| Propyl Acetate | ND | < 500 | | 1400 | 1610 | µg/g | 87.0 | 70 - 130 | |
| 1,4-Dioxane | ND | < 100 | | 438 | 491 | µg/g | 85.1 | 60 - 120 | |
| 2-Ethoxyethanol | ND | < 30 | | 154 | 181 | µg/g | 85.1 | 60 - 120 | |
| Methylisobutylketone | ND | < 500 | | 1440 | 1620 | µg/g | 88.9 | 70 - 130 | |
| 3-Methyl-1-butanol | ND | < 500 | | 1470 | 1630 | µg/g | 90.2 | 70 - 130 | |
| Ethylene Glycol | ND | < 200 | | 429 | 484 | µg/g | 88.6 | 60 - 120 | |
| Toluene | ND | < 100 | | 413 | 485 | µg/g | 85.2 | 60 - 120 | |
| Isobutyl Acetate | ND | < 500 | | 1420 | 1630 | µg/g | 87.1 | 70 - 130 | |
| 1-Pentanol | ND | < 500 | | 1450 | 1620 | µg/g | 89.5 | 70 - 130 | |
| Butyl Acetate | ND | < 500 | | 1430 | 1620 | µg/g | 87.0 | 70 - 130 | |
| Ethylbenzene | ND | < 200 | | 813 | 969 | µg/g | 83.9 | 60 - 120 | |
| m,p-Xylene | ND | < 200 | | 821 | 994 | µg/g | 82.6 | 60 - 120 | |
| o-Xylene | ND | < 200 | | 797 | 967 | µg/g | 82.4 | 60 - 120 | |
| Cumene | ND | < 30 | | 145 | 171 | µg/g | 84.8 | 60 - 120 | |
| Anisole | ND | < 500 | | 1430 | 1630 | µg/g | 87.7 | 70 - 130 | |
| DMSO | ND | < 500 | | 1660 | 1680 | µg/g | 98.8 | 70 - 130 | |
| 1,2-dimethoxyethane | ND | < 50 | | 149 | 169 | µg/g | 88.2 | 70 - 130 | |
| Triethylamine | ND | < 500 | | 1450 | 1630 | µg/g | 89.0 | 70 - 130 | |
| N,N-dimethylformamide | ND | < 150 | | 450 | 482 | µg/g | 93.4 | 70 - 130 | |
| N,N-dimethylacetamide | ND | < 150 | | 473 | 510 | µg/g | 92.7 | 70 - 130 | |
| Pyridine | ND | < 50 | | 184 | 203 | µg/g | 90.6 | 70 - 130 | |
| Sulfone | ND | < 50 | | 158 | 172 | µg/g | 91.9 | 70 - 130 | |
| 1,2-Dichloroethane | ND | < 1 | | 1 | 1 | µg/g | 100.0 | 70 - 130 | |
| Chloroform | ND | < 1 | | 1.02 | 1 | µg/g | 102.0 | 70 - 130 | |
| Trichloroethylene | ND | < 1 | | 1.04 | 1 | µg/g | 104.0 | 70 - 130 | |
| 1,1-Dichloroethane | ND | < 1 | | 1.02 | 1 | µg/g | 102.0 | 70 - 130 | |



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



Report Number: 23-002243/D002.R000
Report Date: 03/01/2023
ORELAP#: OR100028
Purchase Order:
Received: 02/22/23 12:11

Revision: 2 Document ID: 7087
 Legacy ID: CFL-E33Effective:

QC - Sample Duplicate Sample ID: 23-001978-0001

| 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 | |
| Methyl ethyl ketone | 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



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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. |