



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



Report Number: 23-000476/D002.R000
Report Date: 01/26/2023
ORELAP#: OR100028
Purchase Order:
Received: 01/12/23 11:39

Customer: NW Natural Goods
Product identity: HEMP-LM 0073
Client/Metric ID: .
Laboratory ID: 23-000476-0001

Summary

Potency:

| Analyte per 4g | Result | Limits | Units | Status | |
|----------------|--------|--------|-------|--------|---------------------------------------|
| CBC per 4g | 0.164 | | mg/4g | | CBD-Total per Serving Size 23.2 mg/4g |
| CBD per 4g | 23.2 | | 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.



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



Report Number: 23-000476/D002.R000
Report Date: 01/26/2023
ORELAP#: OR100028
Purchase Order:
Received: 01/12/23 11:39

Customer: NW Natural Goods

Product identity: HEMP-LM 0073

Client/Metric ID: .

Sample Date:

Laboratory ID: 23-000476-0001

Evidence of Cooling: No

Temp: 15.3

Relinquished by: UPS

Serving Size #1: 4 g

Sample Results

| Potency per 4g | | | | | |
|--|--------|-------------|-------|-----------------------------|-------|
| Method: J AOAC 2015 V98-6 (mod) ^b | | Units mg/se | | Batch: 2300463 | |
| | | | | Analyze: 1/14/23 7:42:00 AM | |
| Analyte | Result | Limits | Units | LOQ | Notes |
| CBC per 4g | 0.164 | | mg/4g | 0.126 | |
| CBC-A per 4g | < LOQ | | mg/4g | 0.126 | |
| CBC-Total per 4g | < LOQ | | mg/4g | 0.237 | |
| CBD per 4g | 23.2 | | mg/4g | 0.126 | |
| CBD-A per 4g | < LOQ | | mg/4g | 0.126 | |
| CBD-Total per 4g | 23.2 | | mg/4g | 0.237 | |
| CBDV per 4g | < LOQ | | mg/4g | 0.126 | |
| CBDV-A per 4g | < LOQ | | mg/4g | 0.126 | |
| CBDV-Total per 4g | < LOQ | | mg/4g | 0.236 | |
| CBE per 4g | < LOQ | | mg/4g | 0.126 | |
| CBG per 4g | < LOQ | | mg/4g | 0.126 | |
| CBG-A per 4g | < LOQ | | mg/4g | 0.126 | |
| CBG-Total per 4g | < LOQ | | mg/4g | 0.236 | |
| CBL per 4g | < LOQ | | mg/4g | 0.126 | |
| CBL-A per 4g | < LOQ | | mg/4g | 0.126 | |
| CBL-Total per 4g | < LOQ | | mg/4g | 0.237 | |
| CBN per 4g | < LOQ | | mg/4g | 0.126 | |
| CBT per 4g | < LOQ | | mg/4g | 0.126 | |
| Δ8-THCV per 4g | < LOQ | | mg/4g | 0.126 | |
| Δ10-THC-9R per 4g | < LOQ | | mg/4g | 0.126 | |
| Δ8-THC per 4g | < LOQ | | mg/4g | 0.126 | |
| Δ9-THC per 4g | < LOQ | | mg/4g | 0.126 | |
| exo-THC per 4g | < LOQ | | mg/4g | 0.126 | |
| THC-A per 4g | < LOQ | | mg/4g | 0.126 | |
| THC-Total per 4g | < LOQ | | mg/4g | 0.237 | |
| THCV per 4g | < LOQ | | mg/4g | 0.126 | |
| THCV-A per 4g | < LOQ | | mg/4g | 0.126 | |
| THCV-Total per 4g | < LOQ | | mg/4g | 0.237 | |
| Total Cannabinoids per 4g | 23.5 | | mg/4g | | |



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



Report Number: 23-000476/D002.R000
Report Date: 01/26/2023
ORELAP#: OR100028
Purchase Order:
Received: 01/12/23 11:39

Microbiology

| Analyte | Result | Limits | Units | LOQ | Batch | Analyzed Method | Status | Notes |
|-------------------------|--------|--------|-------|-----|---------|---|--------|-------|
| E.coli | < LOQ | | cfu/g | 10 | 2300404 | 01/15/23 AOAC 991.14 (Petrifilm) [®] | | |
| Total Coliforms | < LOQ | | cfu/g | 10 | 2300404 | 01/15/23 AOAC 991.14 (Petrifilm) [®] | | |
| Mold (RAPID Petrifilm) | < LOQ | | cfu/g | 10 | 2300405 | 01/16/23 AOAC 2014.05 (RAPID) [®] | | |
| Yeast (RAPID Petrifilm) | < LOQ | | cfu/g | 10 | 2300405 | 01/16/23 AOAC 2014.05 (RAPID) [®] | | |

Solvents Method: Residual Solvents by GC/MS[®] Units µg/g Batch 2300734 Analyze 01/24/23 02:42 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 2300548 Analyze 01/18/23 12:49 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 | 0.0181 | 2300807 | 01/26/23 AOAC 2013.06 (mod.) [®] | pass | |
| Cadmium | < LOQ | 0.200 | mg/kg | 0.0181 | 2300807 | 01/26/23 AOAC 2013.06 (mod.) [®] | pass | |
| Lead | < LOQ | 0.500 | mg/kg | 0.0181 | 2300807 | 01/26/23 AOAC 2013.06 (mod.) [®] | pass | |
| Mercury | < LOQ | 0.100 | mg/kg | 0.00904 | 2300807 | 01/26/23 AOAC 2013.06 (mod.) [®] | pass | |



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



Report Number: 23-000476/D002.R000
Report Date: 01/26/2023
ORELAP#: OR100028
Purchase Order:
Received: 01/12/23 11:39

Nutrition

| Analyte | Result | Limits | Units | LOQ | Batch | Analyzed Method | Status | Notes |
|---------------------------|--------|--------|--------|-------|---------|--|--------|-------|
| Moisture (Loss on Drying) | 16.5 | | g/100g | 0.10 | 2300529 | 01/17/23 AOAC 925.10 (mod.) ^p | | |
| Water Activity | 0.714 | | Aw | 0.030 | 2300443 | 01/13/23 AOAC 978.18 ^p | | |



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



Report Number: 23-000476/D002.R000
Report Date: 01/26/2023
ORELAP#: OR100028
Purchase Order:
Received: 01/12/23 11:39

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



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



Report Number: 23-000476/D002.R000
Report Date: 01/26/2023
ORELAP#: OR100028
Purchase Order:
Received: 01/12/23 11:39



Hemp & Cannabis: Usable / Extract / Finished Product NWNATURALGOODS 23-000476
Chain of Custody Record
 ORELAP ID: OR100028 ANAB ISO 17025 ID: AT-1508



Protocol 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 Requested NW Natural Goods <table border="1"> <tr> <td>Pesticides - OR 59 Compounds</td> <td>Pesticide Multi-Residue - 379 compounds</td> <td>Potency</td> <td>Residual Solvents</td> <td>Water Activity</td> <td>Moisture</td> <td>Micro: Yeast and Mold</td> <td>Micro: E.Coli and Total Coliform</td> <td>Heavy Metals</td> <td>Mycotoxins</td> </tr> <tr> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td></td> </tr> </table> | | | | | | | | | | 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 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | Batch ID: Sampled by: 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> | |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lab ID | Client Sample Identification | Sample date | | | | | | | | Material Type † | Weight (Units) | Comments/Metric ID | | | | | | | | | | | | | | | | | | | | | | |
| | HEMP - LM 0073 | 01/12/23 | | | | | | | | | 80g | | | | | | | | | | | | | | | | | | | | | | | |
| Signature - Relinquished By: Annie Nair | | | Date | Time | Signature - Received By: | | | Date | Time | 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): <u>15.3</u> 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: | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 01/12/23 | 1023 | | | 01/12/23 | 1023 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 01/12/23 | 1102 | | | 01/12/23 | 1139 | | | | | | | | | | | | | | | | | | | | | | | | | | |

† - 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 COC. By signing "Relinquished by" you are agreeing to these terms
 12423 NE Whitaker Way
 Portland, OR 97230
 P: (503) 254-1794 | Fax: (503) 254-1452
 info@columbialaboratories.com
 Page _____ of _____
 www.columbialaboratories.com

Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of NELAP and the Columbia Laboratories quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be retained for a maximum of 30 days from the receipt date unless prior arrangements have been made.
 Testing in accordance with: OAR 333-007-0390 OAR 333-007-0400 OAR 333-007-0410 OAR 333-007-0430



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



Report Number: 23-000476/D002.R000
Report Date: 01/26/2023
ORELAP#: OR100028
Purchase Order:
Received: 01/12/23 11:39

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

Laboratory Quality Control Results

J AOAC 2015 V98-6 Batch ID: 2300463

Laboratory Control Sample

| Analyte | LCS | Result | Spike | Units | % Rec | Limits | Evaluation | Notes |
|---------|-----|--------|-------|-------|-------|------------|------------|-------|
| CBDVA | 2 | 0.0334 | 0.033 | % | 99.9 | 80.0 - 120 | Acceptable | |
| CBDV | 2 | 0.0354 | 0.035 | % | 100 | 80.0 - 120 | Acceptable | |
| CBE | 2 | 0.0347 | 0.035 | % | 99.1 | 80.0 - 120 | Acceptable | |
| CBDA | 1 | 0.0312 | 0.032 | % | 97.4 | 90.0 - 110 | Acceptable | |
| CBGA | 1 | 0.0315 | 0.032 | % | 98.2 | 80.0 - 120 | Acceptable | |
| CBG | 1 | 0.0324 | 0.033 | % | 98.4 | 80.0 - 120 | Acceptable | |
| CBD | 1 | 0.0313 | 0.032 | % | 96.5 | 90.0 - 110 | Acceptable | |
| THCV | 2 | 0.0351 | 0.035 | % | 99.1 | 80.0 - 120 | Acceptable | |
| d8THCV | 2 | 0.0348 | 0.034 | % | 101 | 80.0 - 120 | Acceptable | |
| THCVA | 2 | 0.0328 | 0.033 | % | 99.5 | 80.0 - 120 | Acceptable | |
| CBN | 1 | 0.0335 | 0.034 | % | 98.7 | 80.0 - 120 | Acceptable | |
| exo-THC | 2 | 0.0324 | 0.032 | % | 100 | 80.0 - 120 | Acceptable | |
| d9THC | 1 | 0.0352 | 0.035 | % | 101 | 90.0 - 110 | Acceptable | |
| d8THC | 1 | 0.0319 | 0.033 | % | 95.3 | 90.0 - 110 | Acceptable | |
| CBL | 2 | 0.0346 | 0.035 | % | 100 | 80.0 - 120 | Acceptable | |
| d10THC | 1 | 0.0154 | 0.016 | % | 97.6 | 80.0 - 120 | Acceptable | |
| CBG | 2 | 0.0342 | 0.035 | % | 98.8 | 80.0 - 120 | Acceptable | |
| THCA | 1 | 0.0317 | 0.032 | % | 100 | 90.0 - 110 | Acceptable | |
| CBCA | 2 | 0.0342 | 0.034 | % | 99.4 | 80.0 - 120 | Acceptable | |
| CBLA | 2 | 0.0346 | 0.035 | % | 99.1 | 80.0 - 120 | Acceptable | |
| CBT | 2 | 0.0344 | 0.035 | % | 97.9 | 80.0 - 120 | Acceptable | |

Method Blank

| Analyte | Result | LOQ | Units | Limits | Evaluation | Notes |
|---------|--------|--------|-------|----------|------------|-------|
| CBDVA | <LOQ | 0.0006 | % | < 0.0006 | Acceptable | |
| CBDV | <LOQ | 0.0006 | % | < 0.0006 | Acceptable | |
| CBE | <LOQ | 0.0006 | % | < 0.0006 | Acceptable | |
| CBDA | <LOQ | 0.0006 | % | < 0.0006 | Acceptable | |
| CBGA | <LOQ | 0.0006 | % | < 0.0006 | Acceptable | |
| CBG | <LOQ | 0.0006 | % | < 0.0006 | Acceptable | |
| CBD | <LOQ | 0.0006 | % | < 0.0006 | Acceptable | |
| THCV | <LOQ | 0.0006 | % | < 0.0006 | Acceptable | |
| d8THCV | <LOQ | 0.0006 | % | < 0.0006 | Acceptable | |
| THCVA | <LOQ | 0.0006 | % | < 0.0006 | Acceptable | |
| CBN | <LOQ | 0.0006 | % | < 0.0006 | Acceptable | |
| exo-THC | <LOQ | 0.0006 | % | < 0.0006 | Acceptable | |
| d9THC | <LOQ | 0.0006 | % | < 0.0006 | Acceptable | |
| d8THC | <LOQ | 0.0006 | % | < 0.0006 | Acceptable | |
| CBL | <LOQ | 0.0006 | % | < 0.0006 | Acceptable | |
| d10THC | <LOQ | 0.0006 | % | < 0.0006 | Acceptable | |
| CBG | <LOQ | 0.0006 | % | < 0.0006 | Acceptable | |
| THCA | <LOQ | 0.0006 | % | < 0.0006 | Acceptable | |
| CBCA | <LOQ | 0.0006 | % | < 0.0006 | Acceptable | |
| CBLA | <LOQ | 0.0006 | % | < 0.0006 | Acceptable | |
| CBT | <LOQ | 0.0006 | % | < 0.0006 | 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: 23-000476/D002.R000
Report Date: 01/26/2023
ORELAP#: OR100028
Purchase Order:
Received: 01/12/23 11:39

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

Laboratory Quality Control Results

| J AOAC 2015 V98-6 | | Batch ID: 2300463 | | | | | | |
|-------------------|---------|---------------------------|-------|-------|-------|--------|------------|-------|
| Sample Duplicate | | Sample ID: 23-000249-0001 | | | | | | |
| 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 | |
| CBDA | <LOQ | <LOQ | 0.003 | % | NA | < 20 | Acceptable | |
| CBGA | <LOQ | <LOQ | 0.003 | % | NA | < 20 | Acceptable | |
| CBG | 0.0172 | 0.0172 | 0.003 | % | 0.159 | < 20 | Acceptable | |
| CBD | 0.587 | 0.590 | 0.003 | % | 0.512 | < 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 | <LOQ | <LOQ | 0.003 | % | NA | < 20 | Acceptable | |
| d8THC | <LOQ | <LOQ | 0.003 | % | NA | < 20 | Acceptable | |
| CBL | <LOQ | <LOQ | 0.003 | % | NA | < 20 | Acceptable | |
| d10THC | <LOQ | <LOQ | 0.003 | % | NA | < 20 | Acceptable | |
| CBC | 0.00543 | 0.00546 | 0.003 | % | 0.548 | < 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:



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



Report Number: 23-000476/D002.R000
 Report Date: 01/26/2023
 ORELAP#: OR100028
 Purchase Order:
 Received: 01/12/23 11:39

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

Laboratory Quality Control Results

| Residual Solvents | | | | Batch ID: 2300734 | | | | | |
|-----------------------|--------|-------|-------|---------------------------|-------|-------|-------|----------|-------|
| Method Blank | | | | Laboratory Control Sample | | | | | |
| Analyte | Result | LOQ | Notes | Result | Spike | Units | % Rec | Limits | Notes |
| Propane | ND | < 200 | | 566 | 572 | µg/g | 99.0 | 60 - 120 | |
| Isobutane | ND | < 200 | | 677 | 731 | µg/g | 92.6 | 60 - 120 | |
| Butane | ND | < 200 | | 661 | 731 | µg/g | 90.4 | 60 - 120 | |
| 2,2-Dimethylpropane | ND | < 200 | | 867 | 936 | µg/g | 92.6 | 60 - 120 | |
| Methanol | ND | < 200 | | 1710 | 1620 | µg/g | 105.6 | 60 - 120 | |
| Ethylene Oxide | ND | < 30 | | 52.5 | 56.2 | µg/g | 93.4 | 60 - 120 | |
| 2-Methylbutane | ND | < 200 | | 1520 | 1610 | µg/g | 94.4 | 60 - 120 | |
| Pentane | ND | < 200 | | 1510 | 1600 | µg/g | 94.4 | 60 - 120 | |
| Ethanol | ND | < 200 | | 1220 | 1610 | µg/g | 75.8 | 70 - 130 | |
| Ethyl Ether | ND | < 200 | | 1500 | 1630 | µg/g | 92.0 | 60 - 120 | |
| 2,2-Dimethylbutane | ND | < 30 | | 178 | 171 | µg/g | 104.1 | 60 - 120 | |
| Acetone | ND | < 200 | | 1640 | 1630 | µg/g | 100.6 | 60 - 120 | |
| 2-Propanol | ND | < 200 | | 1630 | 1620 | µg/g | 100.6 | 60 - 120 | |
| Ethyl Formate | ND | < 500 | | 1590 | 1670 | µg/g | 95.2 | 70 - 130 | |
| Acetonitrile | ND | < 100 | | 473 | 498 | µg/g | 95.0 | 60 - 120 | |
| Methyl Acetate | ND | < 500 | | 1760 | 1730 | µg/g | 101.7 | 70 - 130 | |
| 2,3-Dimethylbutane | ND | < 30 | | 155 | 171 | µg/g | 90.6 | 60 - 120 | |
| Dichloromethane | ND | < 60 | | 473 | 483 | µg/g | 97.9 | 60 - 120 | |
| 2-Methylpentane | ND | < 30 | | 158 | 168 | µg/g | 94.0 | 60 - 120 | |
| MTBE | ND | < 500 | | 1610 | 1650 | µg/g | 97.6 | 70 - 130 | |
| 3-Methylpentane | ND | < 30 | | 143 | 167 | µg/g | 85.6 | 60 - 120 | |
| Hexane | ND | < 30 | | 217 | 182 | µg/g | 119.2 | 60 - 120 | |
| 1-Propanol | ND | < 500 | | 1520 | 1620 | µg/g | 93.8 | 70 - 130 | |
| Methylethylketone | ND | < 500 | | 1730 | 1620 | µg/g | 106.8 | 70 - 130 | |
| Ethyl acetate | ND | < 200 | | 1640 | 1610 | µg/g | 101.9 | 60 - 120 | |
| 2-Butanol | ND | < 200 | | 1620 | 1600 | µg/g | 101.3 | 60 - 120 | |
| Tetrahydrofuran | ND | < 100 | | 422 | 483 | µg/g | 87.4 | 60 - 120 | |
| Cyclohexane | ND | < 200 | | 1710 | 1610 | µg/g | 106.2 | 60 - 120 | |
| 2-methyl-1-propanol | ND | < 500 | | 1470 | 1620 | µg/g | 90.7 | 70 - 130 | |
| Benzene | ND | < 1 | | 4.49 | 5.02 | µg/g | 89.4 | 60 - 120 | |
| Isopropyl Acetate | ND | < 200 | | 1610 | 1620 | µg/g | 99.4 | 60 - 120 | |
| Heptane | ND | < 200 | | 1750 | 1610 | µg/g | 108.7 | 60 - 120 | |
| 1-Butanol | ND | < 500 | | 1160 | 1630 | µg/g | 71.2 | 70 - 130 | |
| Propyl Acetate | ND | < 500 | | 1510 | 1610 | µg/g | 93.8 | 70 - 130 | |
| 1,4-Dioxane | ND | < 100 | | 450 | 491 | µg/g | 91.6 | 60 - 120 | |
| 2-Ethoxyethanol | ND | < 30 | | 117 | 181 | µg/g | 64.6 | 60 - 120 | |
| Methylisobutylketone | ND | < 500 | | 1610 | 1620 | µg/g | 99.4 | 70 - 130 | |
| 3-Methyl-1-butanol | ND | < 500 | | 1340 | 1630 | µg/g | 82.2 | 70 - 130 | |
| Ethylene Glycol | ND | < 200 | | 488 | 484 | µg/g | 98.7 | 60 - 120 | |
| Toluene | ND | < 100 | | 440 | 485 | µg/g | 90.7 | 60 - 120 | |
| Isobutyl Acetate | ND | < 500 | | 1890 | 1630 | µg/g | 116.0 | 70 - 130 | |
| 1-Pentanol | ND | < 500 | | 1330 | 1620 | µg/g | 82.1 | 70 - 130 | |
| Butyl Acetate | ND | < 500 | | 1640 | 1620 | µg/g | 101.2 | 70 - 130 | |
| Ethylbenzene | ND | < 200 | | 982 | 969 | µg/g | 101.3 | 60 - 120 | |
| m,p-Xylene | ND | < 200 | | 1030 | 994 | µg/g | 103.6 | 60 - 120 | |
| o-Xylene | ND | < 200 | | 948 | 967 | µg/g | 98.0 | 60 - 120 | |
| Cumene | ND | < 30 | | 151 | 171 | µg/g | 88.3 | 60 - 120 | |
| Anisole | ND | < 500 | | 1170 | 1630 | µg/g | 71.8 | 70 - 130 | |
| DMSO | ND | < 500 | | 1110 | 1680 | µg/g | 66.1 | 70 - 130 | Q6 |
| 1,2-dimethoxyethane | ND | < 50 | | 177 | 169 | µg/g | 104.7 | 70 - 130 | |
| Triethylamine | ND | < 500 | | 1730 | 1630 | µg/g | 106.1 | 70 - 130 | |
| N,N-dimethylformamide | ND | < 150 | | 462 | 482 | µg/g | 95.9 | 70 - 130 | |
| N,N-dimethylacetamide | ND | < 150 | | 256 | 510 | µg/g | 50.2 | 70 - 130 | Q6 |
| Pyridine | ND | < 50 | | 216 | 203 | µg/g | 106.4 | 70 - 130 | |
| Silfolane | ND | < 50 | | 121 | 172 | µg/g | 70.3 | 70 - 130 | |
| 1,2-Dichloroethane | ND | < 1 | | 1.15 | 1 | µg/g | 115.0 | 70 - 130 | |
| Chloroform | ND | < 1 | | 1.13 | 1 | µg/g | 113.0 | 70 - 130 | |
| Trichloroethylene | ND | < 1 | | 1.16 | 1 | µg/g | 116.0 | 70 - 130 | |
| 1,1-Dichloroethane | ND | < 1 | | 1.1 | 1 | µg/g | 110.0 | 70 - 130 | |



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



Report Number: 23-000476/D002.R000
Report Date: 01/26/2023
ORELAP#: OR100028
Purchase Order:
Received: 01/12/23 11:39

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

QC- Sample Duplicate Sample ID: 23-000476-0001

| 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
 Q6 - Quality control outside QC limits. Data acceptable based on remaining QC.

Units of Measure:

µg/g - Microgram per gram or ppm



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



Report Number: 23-000476/D002.R000
Report Date: 01/26/2023
ORELAP#: OR100028
Purchase Order:
Received: 01/12/23 11:39





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



Report Number: 23-000476/D002.R000
Report Date: 01/26/2023
ORELAP#: OR100028
Purchase Order:
Received: 01/12/23 11:39

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. |