



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



**Report Number:** 23-010339/D003.R000  
**Report Date:** 09/09/2023  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 08/30/23 15:01

**Customer:** NW Natural Goods  
**Product identity:** HEMP - RB 0116  
**Client/Metric ID:** .  
**Laboratory ID:** 23-010339-0001

### Summary

**Potency:**

| Analyte per 4g                       | Result | Limits | Units | Status |                                       |
|--------------------------------------|--------|--------|-------|--------|---------------------------------------|
| CBC per 4g                           | 0.209  |        | mg/4g |        | CBD-Total per Serving Size 26.4 mg/4g |
| CBD per 4g                           | 26.4   |        | mg/4g |        |                                       |
| CBG per 4g                           | 0.752  |        | 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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**Product identity:** HEMP - RB 0116

**Client/Metric ID:** .

**Sample Date:**

**Laboratory ID:** 23-010339-0001

**Evidence of Cooling:** No

**Temp:** 21.0

**Relinquished by:** rams

**Serving Size #1:** 4 g

### Sample Results

| Potency per 4g            | Method: J AOAC 2015 V98-6 (mod) <sup>b</sup> | Units mg/se | Batch: 2310563 | Analyze: 8/31/23 9:56:00 PM |       |
|---------------------------|----------------------------------------------|-------------|----------------|-----------------------------|-------|
| Analyte                   | Result                                       | Limits      | Units          | LOQ                         | Notes |
| CBC per 4g                | 0.209                                        |             | mg/4g          | 0.128                       |       |
| CBC-A per 4g              | < LOQ                                        |             | mg/4g          | 0.128                       |       |
| CBC-Total per 4g          | < LOQ                                        |             | mg/4g          | 0.240                       |       |
| CBD per 4g                | 26.4                                         |             | mg/4g          | 0.128                       |       |
| CBD-A per 4g              | < LOQ                                        |             | mg/4g          | 0.128                       |       |
| CBD-Total per 4g          | 26.4                                         |             | mg/4g          | 0.240                       |       |
| CBDV per 4g               | < LOQ                                        |             | mg/4g          | 0.128                       |       |
| CBDV-A per 4g             | < LOQ                                        |             | mg/4g          | 0.128                       |       |
| CBDV-Total per 4g         | < LOQ                                        |             | mg/4g          | 0.239                       |       |
| CBE per 4g                | < LOQ                                        |             | mg/4g          | 0.128                       |       |
| CBG per 4g                | 0.752                                        |             | mg/4g          | 0.128                       |       |
| CBG-A per 4g              | < LOQ                                        |             | mg/4g          | 0.128                       |       |
| CBG-Total per 4g          | 0.752                                        |             | mg/4g          | 0.239                       |       |
| CBL per 4g                | < LOQ                                        |             | mg/4g          | 0.128                       |       |
| CBL-A per 4g              | < LOQ                                        |             | mg/4g          | 0.128                       |       |
| CBL-Total per 4g          | < LOQ                                        |             | mg/4g          | 0.240                       |       |
| CBN per 4g                | < LOQ                                        |             | mg/4g          | 0.128                       |       |
| CBT per 4g                | < LOQ                                        |             | mg/4g          | 0.128                       |       |
| Δ8-THCV per 4g            | < LOQ                                        |             | mg/4g          | 0.128                       |       |
| Δ10-THC-9R per 4g         | < LOQ                                        |             | mg/4g          | 0.128                       |       |
| Δ10-THC-9S per 4g         | < LOQ                                        |             | mg/4g          | 0.128                       |       |
| Δ10-THC-Total per 4g      | < LOQ                                        |             | mg/4g          | 0.256                       |       |
| Δ8-THC per 4g             | < LOQ                                        |             | mg/4g          | 0.128                       |       |
| Δ9-THC per 4g             | < LOQ                                        |             | mg/4g          | 0.128                       |       |
| delta-9-THCP per 4g       | < LOQ                                        |             | mg/4g          | 0.128                       |       |
| exo-THC per 4g            | < LOQ                                        |             | mg/4g          | 0.128                       |       |
| THC-A per 4g              | < LOQ                                        |             | mg/4g          | 0.128                       |       |
| THC-Total per 4g          | < LOQ                                        |             | mg/4g          | 0.240                       |       |
| THCV per 4g               | < LOQ                                        |             | mg/4g          | 0.128                       |       |
| THCV-A per 4g             | < LOQ                                        |             | mg/4g          | 0.128                       |       |
| THCV-Total per 4g         | < LOQ                                        |             | mg/4g          | 0.240                       |       |
| Total Cannabinoids per 4g | 27.4                                         |             | mg/4g          |                             |       |



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**Microbiology**

| Analyte                 | Result | Limits | Units | LOQ | Batch   | Analyzed Method                               | Status | Notes |
|-------------------------|--------|--------|-------|-----|---------|-----------------------------------------------|--------|-------|
| E.coli                  | < LOQ  |        | cfu/g | 10  | 2310497 | 09/02/23 AOAC 991.14 (Petrifilm) <sup>P</sup> |        |       |
| Total Coliforms         | < LOQ  |        | cfu/g | 10  | 2310497 | 09/02/23 AOAC 991.14 (Petrifilm) <sup>P</sup> |        |       |
| Mold (RAPID Petrifilm)  | < LOQ  |        | cfu/g | 10  | 2310498 | 09/02/23 AOAC 2014.05 (RAPID) <sup>P</sup>    |        |       |
| Yeast (RAPID Petrifilm) | < LOQ  |        | cfu/g | 10  | 2310498 | 09/02/23 AOAC 2014.05 (RAPID) <sup>P</sup>    |        |       |

**Solvents** Method: Residual Solvents by GC/MS<sup>P</sup> Units µg/g Batch 2310644 Analyze 09/06/23 10:31 AM

| 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-Dimethyl butane        | < LOQ  |        | 30.0 |        |       | 2,2-Dimethylpropane (neo-pentane) | < LOQ  |        | 200  |        |       |
| 2,3-Dimethyl butane        | < 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   |       |
| Isopropyl benzene (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)<sup>P</sup> Units mg/kg Batch 2310627 Analyze 09/05/23 04:20 PM

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



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**Metals**

| Analyte  | Result | Limits | Units | LOQ     | Batch   | Analyzed Method                           | Status | Notes |
|----------|--------|--------|-------|---------|---------|-------------------------------------------|--------|-------|
| Arsenic* | < LOQ  | 0.200  | mg/kg | 0.0145  | 2310670 | 09/06/23 AOAC 2013.06 (mod.) <sup>p</sup> | pass   |       |
| Cadmium* | < LOQ  | 0.200  | mg/kg | 0.0145  | 2310670 | 09/06/23 AOAC 2013.06 (mod.) <sup>p</sup> | pass   |       |
| Lead*    | < LOQ  | 0.500  | mg/kg | 0.0145  | 2310670 | 09/06/23 AOAC 2013.06 (mod.) <sup>p</sup> | pass   |       |
| Mercury* | < LOQ  | 0.100  | mg/kg | 0.00726 | 2310670 | 09/06/23 AOAC 2013.06 (mod.) <sup>p</sup> | pass   |       |

**Nutrition**

| Analyte                   | Result | Limits | Units  | LOQ   | Batch   | Analyzed Method                          | Status | Notes |
|---------------------------|--------|--------|--------|-------|---------|------------------------------------------|--------|-------|
| Moisture (Loss on Drying) | 18.7   |        | g/100g | 0.10  | 2310552 | 08/31/23 AOAC 925.10 (mod.) <sup>p</sup> |        |       |
| Water Activity            | 0.698  |        | Aw     | 0.030 | 2310567 | 09/01/23 AOAC 978.18 <sup>p</sup>        |        |       |



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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.

<sup>p</sup> = ISO/IEC 17025:2017 accredited method.

<sup>¥</sup> = TNI accredited analyte.

### 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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Cannabis Multi-Residue Profile, Limits of Quantitation

| Compound                      | LOQ (mg/kg) | Compound                | LOQ (mg/kg) | Compound                    | LOQ (mg/kg) |
|-------------------------------|-------------|-------------------------|-------------|-----------------------------|-------------|
| Abamectin                     | 0.100       | Clethodim               | 0.050       | Endrin                      | 0.100       |
| Acephate                      | 0.100       | Clethodim Sulfone       | 0.050       | EPN                         | 0.050       |
| Acequinocyl                   | 0.100       | Clethodim Sulfoxide     | 0.050       | EPIC                        | 0.100       |
| Acetamiprid                   | 0.020       | Cb fenfentazine         | 0.020       | Esfenvalerate/ Fenvalerate  | 0.200       |
| Acetochlor                    | 0.100       | Cb mazone               | 0.020       | Etaconazole                 | 0.100       |
| Acrinathrin                   | 0.100       | Cb thianidin            | 0.200       | Ethalfuralin                | 0.100       |
| Alachlor                      | 0.100       | Cumaphos                | 0.050       | Ethiofencarb                | 0.050       |
| Aldicarb                      | 0.100       | Crtoxypfos              | 0.020       | Ethion                      | 0.200       |
| Aldicarb sulfoxide            | 0.100       | Cyarazine               | 0.020       | Ethirimol                   | 0.100       |
| Aldoxycarb (Aldicarb-sulfone) | 0.100       | Cyazofenphos            | 0.020       | Ethofumesate                | 0.050       |
| Aldrin                        | 0.100       | Cyazotranylprole        | 0.050       | Ethoprophos                 | 0.020       |
| Ametoctradin                  | 0.020       | Cyazoflamid             | 0.020       | Etofenprox                  | 0.020       |
| Ametryn                       | 0.500       | Cytoate                 | 0.100       | Etoazole                    | 0.020       |
| Aspon                         | 0.100       | Cyfluthrin              | 0.200       | Eridiazole                  | 0.100       |
| Asulam                        | 0.100       | Cyhalothrin, lambda     | 0.200       | Erimfos                     | 0.020       |
| Atrazine                      | 0.100       | Cymoxanil               | 0.050       | Famoxadone                  | 0.200       |
| Atrazine-desethyl             | 0.100       | Cypermethrin            | 0.200       | Famphur                     | 0.100       |
| Azinphos-ethyl                | 0.020       | Cyprodinil              | 0.100       | Fenamidone                  | 0.020       |
| Azinphos-methyl               | 0.020       | Dadhal                  | 0.100       | Fenamiphos                  | 0.020       |
| Azoxystrobin                  | 0.020       | Damnozide               | 0.100       | Fenamiphos sulfone          | 0.020       |
| Beralaxyl                     | 0.020       | DCEMU                   | 0.050       | Fenamiphos sulfoxide        | 0.020       |
| Berdicarb                     | 0.020       | DDD, op'                | 0.100       | Fenazaquin                  | 0.100       |
| Berfluralin                   | 0.100       | DDD, p,p'               | 0.100       | Fenbuconazole               | 0.100       |
| Berxacor                      | 0.050       | DDE, o,p'               | 0.100       | Fenchlorphos                | 0.100       |
| Bersulide                     | 0.050       | DDE, p,p'               | 0.100       | Fenchlorphos-oxon           | 0.100       |
| BHC alpha isomer              | 0.100       | DDT, o,p'               | 0.100       | Fenhexam d                  | 0.100       |
| BHC beta isomer               | 0.100       | DDT, p,p'               | 0.100       | Fenitrothion                | 0.100       |
| BHC delta isomer              | 0.500       | DEF (Tribufos)          | 0.100       | Fenobucarb                  | 0.050       |
| Bifenazate                    | 0.020       | Deltamethrin            | 0.100       | Fenoxycarb                  | 0.020       |
| Bifenthrin                    | 0.020       | Desmedipham             | 0.100       | Fenpropathrin               | 0.050       |
| Boscalid                      | 0.020       | Diallate                | 0.100       | Fenpyroximate               | 0.020       |
| Bromophos-ethyl               | 0.100       | Diazinon                | 0.020       | Fenson                      | 0.100       |
| Bromophos-methyl              | 0.200       | Diazoxon                | 0.100       | Fensulfiothion              | 0.020       |
| Bromopropylate                | 0.100       | Dichlobenil             | 0.100       | Fensulfiothion oxon         | 0.020       |
| Bromuconazole                 | 0.100       | D chlorfluaniid         | 0.100       | Fensulfiothion sulfone      | 0.100       |
| Bupirimate                    | 0.020       | D chlorvos              | 0.100       | Fensulfiothion-oxon-sulfone | 0.020       |
| Buprofezin                    | 0.050       | D clobutrazol           | 0.050       | Fenthion                    | 0.050       |
| Butachlor                     | 0.500       | D cofol                 | 0.100       | Fenthion oxon               | 0.020       |
| Butralin                      | 0.200       | Dicrotophos             | 0.050       | Fenthion oxon sulfone       | 0.100       |
| Butylate                      | 0.100       | Deldrin                 | 0.100       | Fenthion sulfone            | 0.050       |
| Cadusafos                     | 0.020       | Dethofencarb            | 0.020       | Fenuron                     | 0.020       |
| Captan                        | 1.000       | D ethyltoluam de (DEET) | 0.050       | Fipronil                    | 0.100       |
| Carbaryl                      | 0.050       | Difenoconazole          | 0.100       | Fonicamid                   | 0.100       |
| Carbendazim                   | 0.100       | Dimethenamid            | 0.050       | Fuchloralin                 | 0.100       |
| Carbofuran                    | 0.020       | Dimethoate              | 0.050       | Flucythrinate               | 0.100       |
| Carbophenothion               | 0.200       | D methomorph            | 0.050       | Fludioxonil                 | 0.200       |
| Carboxin                      | 0.020       | D niconazole            | 0.200       | Flufenacet                  | 0.020       |
| Carfentrazone-ethyl           | 0.100       | D notefuran             | 0.200       | Flumioxazin                 | 0.100       |
| Chlorantrilprole              | 0.020       | D oxathion              | 0.100       | Flumeturon                  | 0.020       |
| Chordane, os-                 | 0.200       | D phenamid              | 0.020       | Fluopicolide                | 0.050       |
| Chordane, trans-              | 0.200       | D phenylamine           | 0.100       | Fluopyram                   | 0.020       |
| Chlorfenapyr                  | 0.500       | Disulfoton              | 0.100       | Fluoxastrobin               | 0.050       |
| Chlorfenson                   | 0.200       | Disulfoton sulfone      | 0.100       | Flupyradfurone              | 0.020       |
| Chlorfenvinphos               | 0.050       | Disulfoton sulfoxide    | 0.100       | Fluridone                   | 0.100       |
| Chlorobenzilate               | 0.100       | Duron                   | 0.050       | Flusilazole                 | 0.020       |
| Chloroneb                     | 0.200       | Edifenphos              | 0.050       | Flutolanil                  | 0.020       |
| Chlorpyrifos                  | 0.050       | Endosulfan alpha        | 0.200       | Flutriafol                  | 0.020       |
| Chlorpyrifos-methyl           | 0.200       | Endosulfan beta         | 0.200       | Fluvalinate, tau-           | 0.100       |
| CIPC                          | 1.000       | Endosulfan sulfate      | 0.100       | Fluxapyroxad                | 0.020       |



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Cannabis Multi-Residue Profile, Limits of Quantitation

| Compound             | LOQ(mg/kg) | Compound                      | LOQ(mg/kg) | Compound                 | LOQ(mg/kg) |
|----------------------|------------|-------------------------------|------------|--------------------------|------------|
| Fomesafen            | 0.100      | Mexacarbate                   | 0.020      | Propamocarb              | 0.050      |
| Fonofos              | 0.100      | MGK 264                       | 0.020      | Proparil                 | 0.050      |
| Forchlorfenuron      | 0.050      | Mirex                         | 0.100      | Propargite               | 0.050      |
| Formetanate          | 0.050      | Molinate                      | 0.050      | Propazine                | 0.020      |
| Furathiocarb         | 0.020      | Monocrotophos                 | 0.100      | Propetamphos             | 0.050      |
| Heptachlor           | 0.100      | Monolinuron                   | 0.020      | Propham                  | 0.050      |
| Heptachlor epoxide   | 0.100      | Myclobutanil                  | 0.050      | Propiconazole            | 0.050      |
| Heptenophos          | 0.100      | Naled                         | 0.100      | Propoxur                 | 0.050      |
| Hexachlorobenzene    | 0.100      | Napropamide                   | 0.050      | Propoxycarbazone Na      | 0.050      |
| Hexaconazole         | 0.100      | Neburon                       | 0.020      | Propyzamide              | 0.050      |
| Hexazinone           | 0.100      | Nitrapyrin                    | 0.100      | Prthiofos                | 0.100      |
| Hexythiazox          | 0.020      | Norflurazon                   | 0.050      | Pyraclostrobin           | 0.020      |
| Imazalil             | 0.100      | Omethoate                     | 0.100      | Pyrazophos               | 0.050      |
| Imidacoprid          | 0.100      | O-Phenylphenol                | 0.100      | Pyrethrins               | 0.050      |
| Indaziflam           | 0.020      | Oxadixyl                      | 0.100      | Pyridaben                | 0.020      |
| Indoxacarb           | 0.020      | Oxamyl                        | 0.100      | Pyridafol                | 0.100      |
| Iprobenfos           | 0.100      | Oxamyl-oxime                  | 0.100      | Pyridate                 | 0.020      |
| Iprodione            | 0.100      | Oxychlorane                   | 0.100      | Pyrimethanil             | 0.050      |
| Isobenzan            | 0.100      | Oxydemeton-Methyl             | 0.100      | Pyriproxifen             | 0.020      |
| Isocarbophos         | 0.500      | Oxythioquinox                 | 0.200      | Pyroxasulfone            | 0.020      |
| Isodrin              | 0.100      | Padobutrazol                  | 0.050      | Pyroxulam                | 0.020      |
| Isofenphos           | 0.050      | Paraoxon-ethyl                | 0.020      | Quinalphos               | 0.050      |
| Isofenphos-methyl    | 0.020      | Paraoxon methyl               | 0.100      | Quinoxyfen               | 0.050      |
| Isofenphos oxon      | 0.050      | Parathion ethyl               | 0.100      | Quintozene (PQNB)        | 0.200      |
| Isoprocarb           | 0.020      | Parathion methyl              | 0.200      | Resmethrin               | 0.050      |
| Isopropalin          | 0.200      | Perconazole                   | 0.050      | Rotenone                 | 0.050      |
| Isoprothiolane       | 0.050      | Perdimethalin                 | 0.050      | S421                     | 0.100      |
| Isoproturon          | 0.050      | Perflufen                     | 0.020      | Smaazine                 | 0.100      |
| Isoxaben             | 0.050      | Pertachloroaniline            | 0.100      | Smectryn                 | 0.200      |
| Isoxaflutole         | 0.050      | Pertachloroanisole            | 0.100      | Spinetoram               | 0.020      |
| Kresoxim-methyl      | 0.050      | Pentachlorobenzene (PCB)      | 0.100      | Spinosad                 | 0.050      |
| Lactofen             | 0.500      | Pentachlorothiobenzene (PCTA) | 0.100      | Spirodiclofen            | 0.100      |
| Lenadl               | 0.100      | Perthiopyrad                  | 0.020      | Spiromesifen             | 0.050      |
| Lindane (gammaBHC)   | 0.100      | Permethrin                    | 0.050      | Spirotetramat            | 0.050      |
| Linuron              | 0.020      | Pethane                       | 0.100      | Spiroxamine              | 0.020      |
| Malaaxon             | 0.050      | Phenmedipharm                 | 0.050      | Sulfotep                 | 0.050      |
| Malathion            | 0.050      | Phanthoate                    | 0.050      | Sulfoxaflor              | 0.050      |
| Mandipropamid        | 0.020      | Phorate                       | 0.050      | Sulprofos                | 0.020      |
| Mecarbam             | 0.020      | Phorate Sulfone               | 0.050      | Tebuconazole             | 0.100      |
| Mepanipyrim          | 0.050      | Phorate Sulfoxide             | 0.050      | Tebufenozide             | 0.020      |
| Merphos              | 0.500      | Phosalone                     | 0.050      | Tebuthiuron              | 0.020      |
| Metalaxyl            | 0.050      | Phosmet                       | 0.100      | Tecnazene                | 0.100      |
| Metaldehyde          | 0.050      | Phosphamidon                  | 0.050      | Tefluthrin               | 0.100      |
| Metconazole          | 0.100      | Phoxim                        | 0.050      | Terbufos                 | 0.020      |
| Methadifos           | 0.100      | Pinoxaden                     | 0.020      | Terbufos sulfone         | 0.050      |
| Methamidophos        | 0.050      | Piperonyl butoxide            | 0.050      | Terbufos sulfoxide       | 0.050      |
| Methidathion         | 0.050      | Pirimicarb                    | 0.020      | Terbutylazine            | 0.020      |
| Methiocarb           | 0.050      | Pirimiphos-methyl             | 0.050      | Terbutryn                | 0.020      |
| Methiocarb sulfone   | 0.100      | Pirimiphos-ethyl              | 0.020      | Tetrachlorvinphos        | 0.050      |
| Methiocarb sulfoxide | 0.100      | Prallethrin                   | 0.100      | Tetraconazole            | 0.050      |
| Methomyl             | 0.100      | Prochloraz                    | 0.020      | Tetradfon                | 0.200      |
| Methoxychlor         | 0.100      | Procyimdone                   | 0.100      | Tetramethrin             | 0.050      |
| Methoxyfenozide      | 0.020      | Prfenofos                     | 0.100      | Tetrasul                 | 0.100      |
| Metobromuron         | 0.050      | Prfluralin                    | 0.100      | Thiabendazole            | 0.100      |
| Metolachlor          | 0.100      | Prmecarb                      | 0.050      | Thiabendazole, 5-hydroxy | 0.100      |
| Metolcarb            | 0.050      | Prometon                      | 0.100      | Thiadoprid               | 0.050      |
| Metraferone          | 0.050      | Prometryn                     | 0.020      | Thiamethoxam             | 0.100      |
| Metribuzin           | 0.100      | Propadchlor                   | 0.020      | Thiobencarb              | 0.050      |
| Mevinphos            | 0.100      |                               |            | Thiodicarb               | 0.050      |
|                      |            |                               |            | Thiophanate-methyl       | 0.050      |



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**Report Number:** 23-010339/D003.R000  
**Report Date:** 09/09/2023  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 08/30/23 15:01



Cannabis Multi-Residue Profile, Limits of Quantitation

| Compound         | LOQ(mg/kg) | Compound     | LOQ(mg/kg) | Compound        | LOQ(mg/kg) |
|------------------|------------|--------------|------------|-----------------|------------|
| Tolclofos-methyl | 0.100      | Triazophos   | 0.020      | Trifloxystrobin | 0.020      |
| Triforin         | 0.100      | Tolyfluarid  | 0.050      | Triconazole     | 0.050      |
| Tralkoxydim      | 0.100      | Tridiphane   | 0.500      | Vindozolin      | 0.100      |
| Triadimefon      | 0.050      | Triflumizole | 0.020      | Zoxamide        | 0.020      |
| Triallate        | 0.100      | Trifluralin  | 0.100      |                 |            |

LOQ=Limit of Quantitation, mg/kg

Factors affecting the LOQ include instrumentation sensitivity for a particular analyte, sample size, moisture content (percent solids) of the sample, effectiveness of the cleanup on the sample extract, and especially the type of sample matrix.





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Hemp & Cannabis  
Chain of Custody

Northwest-Natural-  
Goods-1693339631

ORELAP ID: OR100028 ANAB ID: P02510 ATE08

|   | <b>Project Information</b><br>Project Name: <u>HEMP-169-0116</u><br>PO Number: <u>NA</u><br>Turnaround Time: <u>5 Business Days (Req. For Micro Testing) Standard</u><br>Samples Delivered to Laboratory: <u>Schedule Pick-Up</u><br>Cannabis Type: <u>Indica/acid</u> |          |                   |                   | Testing                                             |                                           |                                     |                                                    |                                     |                                     |                                     |                                     |
|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------|-------------------|-----------------------------------------------------|-------------------------------------------|-------------------------------------|----------------------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
|   |                                                                                                                                                                                                                                                                        |          |                   |                   | H000 - Potency/Cannabinoid/Basic + Extended Profile | F0200 - Pesticide - Multi-Residue Profile | H0008 - Residual Solvents-OF        | H0013 - Heavy Metals Profile (Pb, As, Cd, Hg & Hg) | M006 - Total Coliforms - E-Coli     | M005 - Yeast and Mold               | N100 - Moisture and Loss on Drying  | N300 - Water Activity               |
| # | Sample Name Test                                                                                                                                                                                                                                                       | Material | Amount Provided   | Reporting Unit    | Serving Size                                        | <input checked="" type="checkbox"/>       | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/>                | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1 | HEMP-169-0116                                                                                                                                                                                                                                                          | Edible   | 20 units for sale | mg/0.5 mg/serving | 5 g                                                 |                                           |                                     |                                                    |                                     |                                     |                                     |                                     |

| Released By            | Date      | Time  | Temp, °C | Received By | Date      | Time  | Received Temp, °C | Evidence of Cooling? |
|------------------------|-----------|-------|----------|-------------|-----------|-------|-------------------|----------------------|
| <i>Kristen Johnson</i> | 8/29/2023 | 13:07 | Temp, °C | <i>BR</i>   | 8/30/2023 | 16:26 |                   | <i>No</i>            |
| <i>BR</i>              | 8/30/2023 | 11:00 | 21.0     | <i>rlc</i>  | 8/30/2023 | 18:01 |                   | <i>No</i>            |

Samples submitted to Columbia Laboratories with testing requirements consist of an agreement for services in accordance with the current terms of services associated with this COC. By signing "Relinquished" you are agreeing to these terms.

Columbia Laboratories  
12423 NE Whitaker Way  
Portland, OR 97230

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



**Report Number:** 23-010339/D003.R000  
**Report Date:** 09/09/2023  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 08/30/23 15:01

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

Laboratory Quality Control Results

| Residual Solvents     |        |       |       | Batch D: 2310573          |       |       |       |          |       |  |
|-----------------------|--------|-------|-------|---------------------------|-------|-------|-------|----------|-------|--|
| Method Blank          |        |       |       | Laboratory Control Sample |       |       |       |          |       |  |
| Analyte               | Result | LOQ   | Notes | Result                    | Spike | Units | % Rec | Limits   | Notes |  |
| Propane               | ND     | < 200 |       | 538                       | 584   | µg/g  | 92.1  | 60 - 120 |       |  |
| Isobutane             | ND     | < 200 |       | 630                       | 767   | µg/g  | 82.1  | 60 - 120 |       |  |
| Butane                | ND     | < 200 |       | 639                       | 782   | µg/g  | 81.7  | 60 - 120 |       |  |
| 2,2-Dimethylpropane   | ND     | < 200 |       | 800                       | 939   | µg/g  | 85.2  | 60 - 120 |       |  |
| Methanol              | ND     | < 200 |       | 1740                      | 1670  | µg/g  | 104.2 | 60 - 120 |       |  |
| Ethylene Oxide        | ND     | < 30  |       | 51.1                      | 57.1  | µg/g  | 89.5  | 60 - 120 |       |  |
| 2-Methylbutane        | ND     | < 200 |       | 1550                      | 1680  | µg/g  | 92.3  | 60 - 120 |       |  |
| Pentane               | ND     | < 200 |       | 1540                      | 1670  | µg/g  | 92.2  | 60 - 120 |       |  |
| Ethanol               | ND     | < 200 |       | 1530                      | 1660  | µg/g  | 92.2  | 70 - 130 |       |  |
| Ethyl Ether           | ND     | < 200 |       | 1540                      | 1670  | µg/g  | 92.2  | 60 - 120 |       |  |
| 2,2-Dimethylbutane    | ND     | < 30  |       | 175                       | 189   | µg/g  | 92.6  | 60 - 120 |       |  |
| Acetone               | ND     | < 200 |       | 1570                      | 1670  | µg/g  | 94.0  | 60 - 120 |       |  |
| 2-Propanol            | ND     | < 200 |       | 1520                      | 1630  | µg/g  | 93.3  | 60 - 120 |       |  |
| Ethyl Formate         | ND     | < 500 |       | 1370                      | 1600  | µg/g  | 85.6  | 70 - 130 |       |  |
| Acetonitrile          | ND     | < 100 |       | 455                       | 492   | µg/g  | 92.5  | 60 - 120 |       |  |
| Methyl Acetate        | ND     | < 500 |       | 1450                      | 1600  | µg/g  | 90.6  | 70 - 130 |       |  |
| 2,3-Dimethylbutane    | ND     | < 30  |       | 171                       | 180   | µg/g  | 95.0  | 60 - 120 |       |  |
| Dichloromethane       | ND     | < 60  |       | 452                       | 488   | µg/g  | 92.6  | 60 - 120 |       |  |
| 2-Methylpentane       | ND     | < 30  |       | 154                       | 182   | µg/g  | 84.6  | 60 - 120 |       |  |
| MTBE                  | ND     | < 500 |       | 1440                      | 1610  | µg/g  | 89.4  | 70 - 130 |       |  |
| 3-Methylpentane       | ND     | < 30  |       | 157                       | 177   | µg/g  | 88.7  | 60 - 120 |       |  |
| Hexane                | ND     | < 30  |       | 164                       | 177   | µg/g  | 92.7  | 60 - 120 |       |  |
| 1-Propanol            | ND     | < 500 |       | 1450                      | 1600  | µg/g  | 90.6  | 70 - 130 |       |  |
| Methyl ethyl ketone   | ND     | < 500 |       | 1430                      | 1610  | µg/g  | 88.8  | 70 - 130 |       |  |
| Ethyl acetate         | ND     | < 200 |       | 1480                      | 1630  | µg/g  | 90.8  | 60 - 120 |       |  |
| 2-Butanol             | ND     | < 200 |       | 1460                      | 1630  | µg/g  | 89.6  | 60 - 120 |       |  |
| Tetrahydrofuran       | ND     | < 100 |       | 458                       | 488   | µg/g  | 93.4  | 60 - 120 |       |  |
| Cyclohexane           | ND     | < 200 |       | 1440                      | 1610  | µg/g  | 89.4  | 60 - 120 |       |  |
| 2-methyl-1-propanol   | ND     | < 500 |       | 1360                      | 1610  | µg/g  | 84.5  | 70 - 130 |       |  |
| Benzene               | ND     | < 1   |       | 4.39                      | 4.79  | µg/g  | 91.6  | 60 - 120 |       |  |
| Isopropyl Acetate     | ND     | < 200 |       | 1490                      | 1650  | µg/g  | 90.3  | 60 - 120 |       |  |
| Heptane               | ND     | < 200 |       | 1440                      | 1630  | µg/g  | 88.3  | 60 - 120 |       |  |
| 1-Butanol             | ND     | < 500 |       | 1490                      | 1600  | µg/g  | 93.1  | 70 - 130 |       |  |
| Propyl Acetate        | ND     | < 500 |       | 1370                      | 1600  | µg/g  | 85.6  | 70 - 130 |       |  |
| 1,4-Dioxane           | ND     | < 100 |       | 429                       | 523   | µg/g  | 82.0  | 60 - 120 |       |  |
| 2-Ethoxyethanol       | ND     | < 30  |       | 148                       | 179   | µg/g  | 82.7  | 60 - 120 |       |  |
| Methylisobutylketone  | ND     | < 500 |       | 1310                      | 1600  | µg/g  | 81.9  | 70 - 130 |       |  |
| 3-Methyl-1-butanol    | ND     | < 500 |       | 1330                      | 1600  | µg/g  | 83.1  | 70 - 130 |       |  |
| Ethylene Glycol       | ND     | < 200 |       | 394                       | 508   | µg/g  | 77.9  | 60 - 120 |       |  |
| Toluene               | ND     | < 100 |       | 422                       | 496   | µg/g  | 85.1  | 60 - 120 |       |  |
| Isobutyl Acetate      | ND     | < 500 |       | 1370                      | 1610  | µg/g  | 85.1  | 70 - 130 |       |  |
| 1-Pentanol            | ND     | < 500 |       | 1470                      | 1600  | µg/g  | 91.9  | 70 - 130 |       |  |
| Butyl Acetate         | ND     | < 500 |       | 1280                      | 1610  | µg/g  | 79.5  | 70 - 130 |       |  |
| Ethylbenzene          | ND     | < 200 |       | 752                       | 978   | µg/g  | 76.9  | 60 - 120 |       |  |
| m,p-Xylene            | ND     | < 200 |       | 756                       | 994   | µg/g  | 76.1  | 60 - 120 |       |  |
| o-Xylene              | ND     | < 200 |       | 740                       | 982   | µg/g  | 75.4  | 60 - 120 |       |  |
| Cumene                | ND     | < 30  |       | 120                       | 171   | µg/g  | 70.2  | 60 - 120 |       |  |
| Anisole               | ND     | < 500 |       | 1200                      | 1600  | µg/g  | 75.0  | 70 - 130 |       |  |
| DMSO                  | ND     | < 500 |       | 1250                      | 1620  | µg/g  | 77.2  | 70 - 130 |       |  |
| 1,2-dimethoxyethane   | ND     | < 50  |       | 161                       | 186   | µg/g  | 86.6  | 70 - 130 |       |  |
| Triethylamine         | ND     | < 500 |       | 1280                      | 1600  | µg/g  | 80.0  | 70 - 130 |       |  |
| N,N-dimethylformamide | ND     | < 150 |       | 394                       | 480   | µg/g  | 82.1  | 70 - 130 |       |  |
| N,N-dimethylacetamide | ND     | < 150 |       | 323                       | 483   | µg/g  | 66.9  | 70 - 130 | Q6    |  |
| Pyridine              | ND     | < 50  |       | 132                       | 168   | µg/g  | 78.6  | 70 - 130 |       |  |
| Sulfolane             | ND     | < 50  |       | 99.5                      | 161   | µg/g  | 61.8  | 70 - 130 | Q6    |  |

QC- Sample Duplicate

Sample ID: 23-009822-0001



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



**Report Number:** 23-010339/D003.R000  
**Report Date:** 09/09/2023  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 08/30/23 15:01

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

| 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        | 35.8   | 36.5        | 30  | µg/g  | 1.9 | < 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          | 11  | 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   |       |

**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



12423 NE Whitaker Way  
 Portland, OR 97230  
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**Report Number:** 23-010339/D003.R000  
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**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 08/30/23 15:01

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

Laboratory Quality Control Results

| Residual Solvents     |        |       |       | Batch D: 2310644          |       |       |       |          |       |
|-----------------------|--------|-------|-------|---------------------------|-------|-------|-------|----------|-------|
| Method Blank          |        |       |       | Laboratory Control Sample |       |       |       |          |       |
| Analyte               | Result | LOQ   | Notes | Result                    | Spike | Units | % Rec | Limits   | Notes |
| Propane               | ND     | < 200 |       | 541                       | 584   | µg/g  | 92.6  | 60 - 120 |       |
| Isobutane             | ND     | < 200 |       | 715                       | 767   | µg/g  | 93.2  | 60 - 120 |       |
| Butane                | ND     | < 200 |       | 743                       | 782   | µg/g  | 95.0  | 60 - 120 |       |
| 2,2-Dimethylpropane   | ND     | < 200 |       | 913                       | 939   | µg/g  | 97.2  | 60 - 120 |       |
| Methanol              | ND     | < 200 |       | 1640                      | 1670  | µg/g  | 98.2  | 60 - 120 |       |
| Ethylene Oxide        | ND     | < 30  |       | 58.3                      | 57.1  | µg/g  | 102.1 | 60 - 120 |       |
| 2-Methylbutane        | ND     | < 200 |       | 1520                      | 1680  | µg/g  | 90.5  | 60 - 120 |       |
| Pentane               | ND     | < 200 |       | 1530                      | 1670  | µg/g  | 91.6  | 60 - 120 |       |
| Ethanol               | ND     | < 200 |       | 1640                      | 1660  | µg/g  | 98.8  | 70 - 130 |       |
| Ethyl Ether           | ND     | < 200 |       | 1570                      | 1670  | µg/g  | 94.0  | 60 - 120 |       |
| 2,2-Dimethylbutane    | ND     | < 30  |       | 174                       | 189   | µg/g  | 92.1  | 60 - 120 |       |
| Acetone               | ND     | < 200 |       | 1630                      | 1670  | µg/g  | 97.6  | 60 - 120 |       |
| 2-Propanol            | ND     | < 200 |       | 1630                      | 1630  | µg/g  | 100.0 | 60 - 120 |       |
| Ethyl Formate         | ND     | < 500 |       | 1520                      | 1600  | µg/g  | 95.0  | 70 - 130 |       |
| Acetonitrile          | ND     | < 100 |       | 478                       | 492   | µg/g  | 97.2  | 60 - 120 |       |
| Methyl Acetate        | ND     | < 500 |       | 1640                      | 1600  | µg/g  | 102.5 | 70 - 130 |       |
| 2,3-Dimethylbutane    | ND     | < 30  |       | 174                       | 180   | µg/g  | 96.7  | 60 - 120 |       |
| Dichloromethane       | ND     | < 60  |       | 477                       | 488   | µg/g  | 97.7  | 60 - 120 |       |
| 2-Methylpentane       | ND     | < 30  |       | 170                       | 182   | µg/g  | 93.4  | 60 - 120 |       |
| MTBE                  | ND     | < 500 |       | 1640                      | 1610  | µg/g  | 101.9 | 70 - 130 |       |
| 3-Methylpentane       | ND     | < 30  |       | 166                       | 177   | µg/g  | 93.8  | 60 - 120 |       |
| Hexane                | ND     | < 30  |       | 170                       | 177   | µg/g  | 96.0  | 60 - 120 |       |
| 1-Propanol            | ND     | < 500 |       | 1610                      | 1600  | µg/g  | 100.6 | 70 - 130 |       |
| Methylethylketone     | ND     | < 500 |       | 1650                      | 1610  | µg/g  | 102.5 | 70 - 130 |       |
| Ethyl acetate         | ND     | < 200 |       | 1610                      | 1630  | µg/g  | 98.8  | 60 - 120 |       |
| 2-Butanol             | ND     | < 200 |       | 1650                      | 1630  | µg/g  | 101.2 | 60 - 120 |       |
| Tetrahydrofuran       | ND     | < 100 |       | 491                       | 488   | µg/g  | 100.6 | 60 - 120 |       |
| Cyclohexane           | ND     | < 200 |       | 1590                      | 1610  | µg/g  | 98.1  | 60 - 120 |       |
| 2-methyl-1-propanol   | ND     | < 500 |       | 1620                      | 1610  | µg/g  | 100.6 | 70 - 130 |       |
| Benzene               | ND     | < 1   |       | 4.99                      | 4.79  | µg/g  | 104.2 | 60 - 120 |       |
| Isopropyl Acetate     | ND     | < 200 |       | 1680                      | 1650  | µg/g  | 101.8 | 60 - 120 |       |
| Heptane               | ND     | < 200 |       | 1630                      | 1630  | µg/g  | 100.0 | 60 - 120 |       |
| 1-Butanol             | ND     | < 500 |       | 1540                      | 1600  | µg/g  | 96.3  | 70 - 130 |       |
| Propyl Acetate        | ND     | < 500 |       | 1630                      | 1600  | µg/g  | 101.9 | 70 - 130 |       |
| 1,4-Dioxane           | ND     | < 100 |       | 506                       | 523   | µg/g  | 96.7  | 60 - 120 |       |
| 2-Ethoxyethanol       | ND     | < 30  |       | 195                       | 179   | µg/g  | 108.9 | 60 - 120 |       |
| Methylisobutylketone  | ND     | < 500 |       | 1630                      | 1600  | µg/g  | 101.9 | 70 - 130 |       |
| 3-Methyl-1-butanol    | ND     | < 500 |       | 1510                      | 1600  | µg/g  | 94.4  | 70 - 130 |       |
| Ethylene Glycol       | ND     | < 200 |       | 283                       | 508   | µg/g  | 55.9  | 60 - 120 | Q6    |
| Toluene               | ND     | < 100 |       | 521                       | 496   | µg/g  | 105.0 | 60 - 120 |       |
| Isobutyl Acetate      | ND     | < 500 |       | 1710                      | 1610  | µg/g  | 106.2 | 70 - 130 |       |
| 1-Pentanol            | ND     | < 500 |       | 1480                      | 1600  | µg/g  | 92.5  | 70 - 130 |       |
| Butyl Acetate         | ND     | < 500 |       | 1650                      | 1610  | µg/g  | 102.5 | 70 - 130 |       |
| Ethylbenzene          | ND     | < 200 |       | 1000                      | 978   | µg/g  | 102.2 | 60 - 120 |       |
| m,p-Xylene            | ND     | < 200 |       | 1040                      | 994   | µg/g  | 104.6 | 60 - 120 |       |
| o-Xylene              | ND     | < 200 |       | 1010                      | 982   | µg/g  | 102.9 | 60 - 120 |       |
| Cumene                | ND     | < 30  |       | 151                       | 171   | µg/g  | 88.3  | 60 - 120 |       |
| Anisole               | ND     | < 500 |       | 1670                      | 1600  | µg/g  | 104.4 | 70 - 130 |       |
| DMSO                  | ND     | < 500 |       | 1730                      | 1620  | µg/g  | 106.8 | 70 - 130 |       |
| 1,2-dimethoxyethane   | ND     | < 50  |       | 184                       | 186   | µg/g  | 98.9  | 70 - 130 |       |
| Triethylamine         | ND     | < 500 |       | 1550                      | 1600  | µg/g  | 96.9  | 70 - 130 |       |
| N,N-dimethylformamide | ND     | < 150 |       | 533                       | 480   | µg/g  | 111.0 | 70 - 130 |       |
| N,N-dimethylacetamide | ND     | < 150 |       | 481                       | 483   | µg/g  | 99.6  | 70 - 130 |       |
| Pyridine              | ND     | < 50  |       | 172                       | 168   | µg/g  | 102.4 | 70 - 130 |       |
| Silolane              | ND     | < 50  |       | 139                       | 161   | µg/g  | 86.3  | 70 - 130 |       |
| 1,2-Dichloroethane    | ND     | < 1   |       | 1.06                      | 1     | µg/g  | 106.0 | 70 - 130 |       |
| Chloroform            | ND     | < 1   |       | 1.06                      | 1     | µg/g  | 105.0 | 70 - 130 |       |
| Trichloroethylene     | ND     | < 1   |       | 1.02                      | 1     | µg/g  | 102.0 | 70 - 130 |       |
| 1,1,1-Trichloroethane | ND     | < 1   |       | 1.02                      | 1     | µg/g  | 102.0 | 70 - 130 |       |



12423 NE Whitaker Way  
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**Report Number:** 23-010339/D003.R000  
**Report Date:** 09/09/2023  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 08/30/23 15:01

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

| QC- Sample Duplicate  |        | Sample ID: 23-010144-0001 |           |     |        |             |       |  |
|-----------------------|--------|---------------------------|-----------|-----|--------|-------------|-------|--|
| 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



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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.                      |