



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



**Report Number:** 22-012064/D002.R000  
**Report Date:** 10/13/2022  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 10/06/22 12:46

**Customer:** NW Natural Goods  
**Product identity:** HEMP - HB 0080  
**Client/Metric ID:** .  
**Laboratory ID:** 22-012064-0001

### Summary

**Potency:**

| Analyte per 4g | Result | Limits | Units | Status |                                       |
|----------------|--------|--------|-------|--------|---------------------------------------|
| CBC per 4g     | 0.225  |        | mg/4g |        | CBD-Total per Serving Size 25.6 mg/4g |
| CBD per 4g     | 25.6   |        | mg/4g |        |                                       |
| CBG per 4g     | 0.728  |        | 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 - HB 0080

**Client/Metric ID:** .

**Sample Date:**

**Laboratory ID:** 22-012064-0001

**Evidence of Cooling:** No

**Temp:** 19.3 °C

**Relinquished by:** Ramos

**Serving Size #1:** 4 g

### Sample Results

| Potency per 4g   |        |        |       |       |       |
|--|--------|--------|-------|-------|-------|
| Method: J AOAC 2015 V98-6 (mod) <sup>b</sup>           |        |        |       |       |       |
| Units mg/se Batch: 2208570 Analyze: 10/7/22 9:41:00 PM |        |        |       |       |       |
| Analyte  | Result | Limits | Units | LOQ   | Notes |
| CBC per 4g   | 0.225  |        | mg/4g | 0.130 |       |
| CBC-A per 4g   | < LOQ  |        | mg/4g | 0.130 |       |
| CBC-Total per 4g                                       | < LOQ  |        | mg/4g | 0.243 |       |
| CBD per 4g   | 25.6   |        | mg/4g | 0.130 |       |
| CBD-A per 4g   | < LOQ  |        | mg/4g | 0.130 |       |
| CBD-Total per 4g                                       | 25.6   |        | mg/4g | 0.243 |       |
| CBDV per 4g  | < LOQ  |        | mg/4g | 0.130 |       |
| CBDV-A per 4g  | < LOQ  |        | mg/4g | 0.130 |       |
| CBDV-Total per 4g                                      | < LOQ  |        | mg/4g | 0.242 |       |
| CBE per 4g   | < LOQ  |        | mg/4g | 0.130 |       |
| CBG per 4g   | 0.728  |        | mg/4g | 0.130 |       |
| CBG-A per 4g   | < LOQ  |        | mg/4g | 0.130 |       |
| CBG-Total per 4g                                       | 0.728  |        | mg/4g | 0.242 |       |
| CBL per 4g   | < LOQ  |        | mg/4g | 0.130 |       |
| CBL-A per 4g   | < LOQ  |        | mg/4g | 0.130 |       |
| CBL-Total per 4g                                       | < LOQ  |        | mg/4g | 0.243 |       |
| CBN per 4g   | < LOQ  |        | mg/4g | 0.130 |       |
| CBT per 4g   | < LOQ  |        | mg/4g | 0.130 |       |
| Δ8-THCV per 4g   | < LOQ  |        | mg/4g | 0.130 |       |
| Δ10-THC per 4g   | < LOQ  |        | mg/4g | 0.130 |       |
| Δ8-THC per 4g  | < LOQ  |        | mg/4g | 0.130 |       |
| Δ9-THC per 4g  | < LOQ  |        | mg/4g | 0.130 |       |
| exo-THC per 4g   | < LOQ  |        | mg/4g | 0.130 |       |
| THC-A per 4g   | < LOQ  |        | mg/4g | 0.130 |       |
| THC-Total per 4g                                       | < LOQ  |        | mg/4g | 0.243 |       |
| THCV per 4g  | < LOQ  |        | mg/4g | 0.130 |       |
| THCV-A per 4g  | < LOQ  |        | mg/4g | 0.130 |       |
| THCV-Total per 4g                                      | < LOQ  |        | mg/4g | 0.243 |       |
| Total Cannabinoids per 4g                              | 26.8   |        | mg/4g |       |       |



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**Microbiology**

| Analyte                 | Result | Limits | Units | LOQ | Batch   | Analyzed Method                               | Status | Notes |
|-------------------------|--------|--------|-------|-----|---------|---|--------|-------|
| E.coli                  | < LOQ  |        | cfu/g | 10  | 2208478 | 10/09/22 AOAC 991.14 (Petrifilm) <sup>®</sup> |        |       |
| Total Coliforms         | < LOQ  |        | cfu/g | 10  | 2208478 | 10/09/22 AOAC 991.14 (Petrifilm) <sup>®</sup> |        |       |
| Mold (RAPID Petrifilm)  | < LOQ  |        | cfu/g | 10  | 2208479 | 10/10/22 AOAC 2014.05 (RAPID) <sup>®</sup>    |        |       |
| Yeast (RAPID Petrifilm) | < LOQ  |        | cfu/g | 10  | 2208479 | 10/10/22 AOAC 2014.05 (RAPID) <sup>®</sup>    |        |       |

**Solvents Method: Residual Solvents by GC/MS<sup>®</sup> Units µg/g Batch 2208606 Analyze 10/11/22 10:15 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-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)<sup>®</sup> Units mg/kg Batch 2208665 Analyze 10/12/22 12:18 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 | 0.0152  | 2208587 | 10/10/22 AOAC 2013.06 (mod.) <sup>®</sup> | pass   |       |
| Cadmium | < LOQ  | 0.200  | mg/kg | 0.0152  | 2208587 | 10/10/22 AOAC 2013.06 (mod.) <sup>®</sup> | pass   |       |
| Lead    | < LOQ  | 0.500  | mg/kg | 0.0152  | 2208587 | 10/10/22 AOAC 2013.06 (mod.) <sup>®</sup> | pass   |       |
| Mercury | < LOQ  | 0.100  | mg/kg | 0.00762 | 2208587 | 10/10/22 AOAC 2013.06 (mod.) <sup>®</sup> | pass   |       |



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Nutrition

| Analyte                   | Result | Limits | Units  | LOQ   | Batch   | Analyzed Method                          | Status | Notes |
|---------------------------|--------|--------|--------|-------|---------|--|--------|-------|
| Moisture (Loss on Drying) | 18.4   |        | g/100g | 0.10  | 2208708 | 10/12/22 AOAC 925.10 (mod.) <sup>p</sup> |        |       |
| Water Activity            | 0.707  |        | Aw     | 0.030 | 2208555 | 10/10/22 AOAC 978.18 <sup>p</sup>        |        |       |



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These test results are representative of the individual sample selected and submitted by the client.

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

**Units of Measure**

cfu/g = Colony forming units per gram

g = g

g/100g = Grams per 100 Grams

µg/g = Microgram per gram

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

mg/4g = Milligram per 4g

% = Percentage of sample

Aw = Water Activity

% wt = µg/g divided by 10,000

Approved Signatory

Derrick Tanner  
General Manager



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Cannabis Multi-Residue Profile, Limits of Quantitation

| Compound                      | LOQ (mg/kg) | Compound                | LOQ (mg/kg) | Compound                   | LOQ (mg/kg) |
|-------------------------------|-------------|-------------------------|-------------|----------------------------|-------------|
| Abamectin                     | 0.100       | Cethodim                | 0.050       | Endrin                     | 0.100       |
| Acephate                      | 0.100       | Cethodim Sulfone        | 0.050       | EPN                        | 0.050       |
| Acequinocyl                   | 0.100       | Cethodim Sulfoxide      | 0.050       | EPIC                       | 0.100       |
| Acetamiprid                   | 0.020       | Cb fenfentzine          | 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       | Cyartofenphos           | 0.020       | Ethofumesate               | 0.050       |
| Aldrin                        | 0.100       | Cyatraniiprole          | 0.050       | Ethoprophos                | 0.020       |
| Ametoctradin                  | 0.020       | Cyazflamid              | 0.020       | Etofenprox                 | 0.020       |
| Ametryn                       | 0.500       | Cytoate                 | 0.100       | Etoazole                   | 0.020       |
| Aspon                         | 0.100       | Cyfluthrin              | 0.200       | Etridiazole                | 0.100       |
| Asulam                        | 0.100       | Cyhalothrin, lambda     | 0.200       | Etrimfos                   | 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       | Fenamidon                  | 0.020       |
| Azinphos-methyl               | 0.020       | Dadhal                  | 0.100       | Fenamiphos                 | 0.020       |
| Azoxystrobin                  | 0.020       | Daminozide              | 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       | DCE, o,p'               | 0.100       | Fenchlorphos               | 0.100       |
| Bersulide                     | 0.050       | DCE, p,p'               | 0.100       | Fenchlorphos-oxon          | 0.100       |
| BHC alpha isomer              | 0.100       | DDT, o,p'               | 0.100       | Fenhexamid                 | 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       | Fensulfothion              | 0.020       |
| Bromopropylate                | 0.100       | Dichlobenil             | 0.100       | Fensulfothion oxon         | 0.020       |
| Bromuconazole                 | 0.100       | Dichlofluanid           | 0.100       | Fensulfothion sulfone      | 0.100       |
| Bupirimate                    | 0.020       | Dichlorvos              | 0.100       | Fensulfothion-oxon-sulfone | 0.020       |
| Buprofezin                    | 0.050       | Diclobutrazol           | 0.050       | Fenthion                   | 0.050       |
| Butadlor                      | 0.500       | Dicofol                 | 0.100       | Fenthion oxon              | 0.020       |
| Butralin                      | 0.200       | Dicrotophos             | 0.050       | Fenthion oxon sulfone      | 0.100       |
| Butylate                      | 0.100       | Dieldrin                | 0.100       | Fenthion sulfone           | 0.050       |
| Cadusafos                     | 0.020       | Diethofencarb           | 0.020       | Fenuron                    | 0.020       |
| Captan                        | 1.000       | Diethyltoluamide (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       | Dimethomorph            | 0.050       | Fludioxonil                | 0.200       |
| Carboxin                      | 0.020       | Diniconazole            | 0.200       | Rufenacet                  | 0.020       |
| Carfentrazone-ethyl           | 0.100       | Dinotefuran             | 0.200       | Flumioxazin                | 0.100       |
| Chlorantraniliprole           | 0.020       | Dioxathion              | 0.100       | Flumeturon                 | 0.020       |
| Chordane, cis                 | 0.200       | Diphenamid              | 0.020       | Fluopicolide               | 0.050       |
| Chordane, trans               | 0.200       | Diphenylamine           | 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       | Diuron                  | 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      | Padlobutrazol                 | 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      | Smectryl                 | 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      |
| Lenacl               | 0.100      | Perthiopyrad                  | 0.020      | Spiromesifen             | 0.050      |
| Lindane (gammaBHC)   | 0.100      | Permethrin                    | 0.050      | Spirotetramat            | 0.050      |
| Linuron              | 0.020      | Perthane                      | 0.100      | Spiroxamine              | 0.020      |
| Malaoxon             | 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      |
| Methacifos           | 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      | Propachlor                    | 0.020      | Thiobencarb              | 0.050      |
| Mevinphos            | 0.100      |                               |            | Thiodicarb               | 0.050      |
|                      |            |                               |            | Thiophanate-methyl       | 0.050      |



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



**Report Number:** 22-012064/D002.R000  
**Report Date:** 10/13/2022  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 10/06/22 12:46



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.





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



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**Received:** 10/06/22 12:46



**Hemp & Cannabis: Usable / Extract / Finished Product**

**Chain of Custody Record**

ORELAP ID: OR100028 ANAB ISO 17025 ID: AT-1508

NWNATURALGOODS 22-012064

2832 Revision: 5  
 Effective: 01/04/2022



| <b>Company:</b> Northwest Natural Goods<br><b>Contact:</b> Annie Nair<br><b>Address:</b> 11791 SE HWY 212<br><b>City:</b> Clackamas <b>State:</b> OR <b>Zip Code:</b> 97015<br><input checked="" type="checkbox"/> <b>Email Results:</b> annienair@nwnaturalgoods.com<br><input type="checkbox"/> <b>Ph:</b> (____) - _____<br><i>Billing Contact (if different)</i><br><b>Name:</b> _____ <b>Email:</b> _____<br><b>Address:</b> _____<br><b>City:</b> _____ <b>State:</b> _____ <b>Zip:</b> _____<br><b>Ph:</b> (____) - _____ |                              |             | <b>Analysis Requested</b><br>Pesticides - OR 59 Compounds<br>Pesticide Multi-Residue - 379 compounds<br>Potency<br>Residual Solvents<br>Water Activity<br>Moisture<br>Micro: Yeast and Mold<br>Micro: E.Coli and Total Coliform<br>Heavy Metals<br>Mycotoxins |   |         |                              |                |          |                              |                                  |              |  | NW Natural Goods<br><b>Batch ID:</b> _____<br><b>Sampled by:</b> _____<br><b>Custom Reporting:</b> _____<br><b>Source Material:</b> <input type="checkbox"/> - Ind. Hemp product   <input type="checkbox"/> - Rec. Cannabis<br><b>Reporting Type:</b> <input type="checkbox"/> - Compliance   <input type="checkbox"/> - R&D<br><b>Report to:</b> <input type="checkbox"/> - METRC   <input type="checkbox"/> - ODA   <input type="checkbox"/> - USDA  <br><input type="checkbox"/> - Other:<br><b>Turnaround time (TAT - Business Days):</b><br><input checked="" type="checkbox"/> - 5BD   <input type="checkbox"/> - 3BD*   <input type="checkbox"/> - 2BD*<br><i>*Check for availability</i> |                |                    |  |
|--|------------------------------|-------------|---|---|---------|------------------------------|----------------|----------|------------------------------|----------------------------------|--------------|--|--|----------------|--------------------|--|
| Lab ID   | Client Sample Identification | Sample date | Pesticides - OR 59 Compounds  | Pesticide Multi-Residue - 379 compounds | Potency | Residual Solvents            | Water Activity | Moisture | Micro: Yeast and Mold        | Micro: E.Coli and Total Coliform | Heavy Metals | Mycotoxins   | Material Type †  | Weight (Units) | Comments/Metric ID |  |
|  | HEMP - HB 0080               | 10/06/22    | ✓   | ✓                                       | ✓       | ✓                            | ✓              | ✓        | ✓                            | ✓                                | ✓            |  |  | 80g            |                    |  |
| <b>Signature - Relinquished By:</b><br>Annie Nair<br>10/06/22 1:035  |                              |             | <b>Signature - Received By:</b><br>RBS<br>10.6.22 1:10  |   |         | <b>Date</b><br>10.6<br>10/06 |                |          | <b>Time</b><br>1:035<br>1:07 |                                  |              | <b>Lab Use Only:</b><br><input type="checkbox"/> Shipped Via: _____ or <input type="checkbox"/> Client drop off<br>Evidence of cooling: <input type="checkbox"/> Yes   <input type="checkbox"/> No - Temp (°C): 19.3<br>Sample in good condition: <input type="checkbox"/> Yes   <input type="checkbox"/> No<br>Payment: <input type="checkbox"/> Cash   <input type="checkbox"/> Check   <input type="checkbox"/> CC   <input type="checkbox"/> Net:<br>Prelog storage: |  |                |                    |  |

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

Samples submitted to Columbia Laboratories with testing requirements constitute an agreement for services in accordance with the [current terms of service](#) associated with this COC. By signing "Relinquished by" you are agreeing to these terms  
 12423 NE Whitaker Way P: (503) 254-1794 | Fax: (503) 254-1452 info@columbiaboratories.com Page \_\_\_\_ of \_\_\_\_  
 Portland, OR 97230 www.columbiaboratories.com



12423 NE Whitaker Way  
 Portland, OR 97230  
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**Report Number:** 22-012064/D002.R000  
**Report Date:** 10/13/2022  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 10/06/22 12:46

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

Laboratory Quality Control Results

J AOAC 2015 V98-6 Batch ID: 2208570

Laboratory Control Sample

| Analyte | LCS | Result | Spike | Units | % Rec | Limits     | Evaluation | Notes |
|---------|-----|--------|-------|-------|-------|------------|------------|-------|
| CBDVA   | 2   | 0.0356 | 0.034 | %     | 103   | 80.0 - 120 | Acceptable |       |
| CBDV    | 2   | 0.0379 | 0.037 | %     | 104   | 80.0 - 120 | Acceptable |       |
| CBE     | 2   | 0.0347 | 0.035 | %     | 99.5  | 80.0 - 120 | Acceptable |       |
| CBDA    | 1   | 0.0337 | 0.033 | %     | 101   | 90.0 - 110 | Acceptable |       |
| CBGA    | 1   | 0.0339 | 0.034 | %     | 101   | 80.0 - 120 | Acceptable |       |
| CBG     | 1   | 0.0347 | 0.034 | %     | 101   | 80.0 - 120 | Acceptable |       |
| CBD     | 1   | 0.0344 | 0.034 | %     | 100   | 90.0 - 110 | Acceptable |       |
| THCV    | 2   | 0.0387 | 0.038 | %     | 103   | 80.0 - 120 | Acceptable |       |
| d8THCV  | 2   | 0.0382 | 0.037 | %     | 104   | 80.0 - 120 | Acceptable |       |
| THCVA   | 2   | 0.0347 | 0.034 | %     | 103   | 80.0 - 120 | Acceptable |       |
| CBN     | 1   | 0.0343 | 0.034 | %     | 102   | 90.0 - 110 | Acceptable |       |
| exo-THC | 2   | 0.0351 | 0.034 | %     | 103   | 80.0 - 120 | Acceptable |       |
| d9THC   | 1   | 0.0344 | 0.035 | %     | 99.8  | 90.0 - 110 | Acceptable |       |
| d8THC   | 1   | 0.0333 | 0.033 | %     | 99.6  | 90.0 - 110 | Acceptable |       |
| CBL     | 2   | 0.0338 | 0.033 | %     | 103   | 80.0 - 120 | Acceptable |       |
| d10THC  | 1   | 0.0319 | 0.032 | %     | 100   | 80.0 - 120 | Acceptable |       |
| CBC     | 2   | 0.0368 | 0.036 | %     | 102   | 80.0 - 120 | Acceptable |       |
| THCA    | 1   | 0.0354 | 0.033 | %     | 107   | 90.0 - 110 | Acceptable |       |
| CBCA    | 2   | 0.0363 | 0.035 | %     | 103   | 80.0 - 120 | Acceptable |       |
| CBLA    | 2   | 0.0187 | 0.019 | %     | 100   | 80.0 - 120 | Acceptable |       |
| CBT     | 2   | 0.0363 | 0.037 | %     | 97.5  | 80.0 - 120 | Acceptable |       |

Method Blank

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

Abbreviations

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

Units of Measure:

% - Percent



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



**Report Number:** 22-012064/D002.R000  
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Revision: 1 Document ID: 7148  
Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

| J AOAC 2015 V98-6 |        | Batch ID: 2208570         |       |       |        |        |            |       |
|-------------------|--------|---------------------------|-------|-------|--------|--------|------------|-------|
| Sample Duplicate  |        | Sample ID: 22-003818-0003 |       |       |        |        |            |       |
| 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               | 0.0108 | 0.0108                    | 0.003 | %     | 0.0104 | < 20   | Acceptable |       |
| CBD               | 0.273  | 0.271                     | 0.003 | %     | 0.620  | < 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               | 0.0035 | 0.0035                    | 0.003 | %     | 1.43   | < 20   | Acceptable |       |
| exo-THC           | <LOQ   | <LOQ                      | 0.003 | %     | NA     | < 20   | Acceptable |       |
| d9THC             | 0.290  | 0.289                     | 0.003 | %     | 0.481  | < 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               | 0.0046 | 0.0047                    | 0.003 | %     | 2.06   | < 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  
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 503-254-1794



Report Number: 22-012064/D002.R000  
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Revision: 2 Document ID: 7087  
 Legacy ID: CFL-E33Effective:

Laboratory Quality Control Results

| Residual Solvents     |        |       |       | Batch ID: 2208606         |       |       |       |          |       |
|-----------------------|--------|-------|-------|---------------------------|-------|-------|-------|----------|-------|
| Method Blank          |        |       |       | Laboratory Control Sample |       |       |       |          |       |
| Analyte               | Result | LOQ   | Notes | Result                    | Spike | Units | % Rec | Limits   | Notes |
| Propane               | ND     | < 200 |       | 485                       | 572   | µg/g  | 84.8  | 60 - 120 |       |
| Isobutane             | ND     | < 200 |       | 576                       | 731   | µg/g  | 78.8  | 60 - 120 |       |
| Butane                | ND     | < 200 |       | 566                       | 731   | µg/g  | 77.4  | 60 - 120 |       |
| 2,2-Dimethylpropane   | ND     | < 200 |       | 861                       | 936   | µg/g  | 92.0  | 60 - 120 |       |
| Methanol              | ND     | < 200 |       | 1620                      | 1650  | µg/g  | 98.2  | 60 - 120 |       |
| Ethylene Oxide        | ND     | < 30  |       | 50.9                      | 56.2  | µg/g  | 90.6  | 60 - 120 |       |
| 2-Methylbutane        | ND     | < 200 |       | 1580                      | 1650  | µg/g  | 95.8  | 60 - 120 |       |
| Pentane               | ND     | < 200 |       | 1540                      | 1650  | µg/g  | 93.3  | 60 - 120 |       |
| Ethanol               | ND     | < 200 |       | 1540                      | 1660  | µg/g  | 92.8  | 70 - 130 |       |
| Ethyl Ether           | ND     | < 200 |       | 1450                      | 1630  | µg/g  | 89.0  | 60 - 120 |       |
| 2,2-Dimethylbutane    | ND     | < 30  |       | 171                       | 189   | µg/g  | 90.5  | 60 - 120 |       |
| Acetone               | ND     | < 200 |       | 1580                      | 1650  | µg/g  | 95.8  | 60 - 120 |       |
| 2-Propanol            | ND     | < 200 |       | 1580                      | 1650  | µg/g  | 95.8  | 60 - 120 |       |
| Ethyl Formate         | ND     | < 500 |       | 1290                      | 1610  | µg/g  | 80.1  | 70 - 130 |       |
| Acetonitrile          | ND     | < 100 |       | 446                       | 504   | µg/g  | 88.5  | 60 - 120 |       |
| Methyl Acetate        | ND     | < 500 |       | 1590                      | 1630  | µg/g  | 97.5  | 70 - 130 |       |
| 2,3-Dimethylbutane    | ND     | < 30  |       | 162                       | 174   | µg/g  | 93.1  | 60 - 120 |       |
| Dichloromethane       | ND     | < 60  |       | 432                       | 521   | µg/g  | 82.9  | 60 - 120 |       |
| 2-Methylpentane       | ND     | < 30  |       | 158                       | 187   | µg/g  | 84.5  | 60 - 120 |       |
| MTBE                  | ND     | < 500 |       | 1460                      | 1600  | µg/g  | 91.3  | 70 - 130 |       |
| 3-Methylpentane       | ND     | < 30  |       | 167                       | 188   | µg/g  | 88.8  | 60 - 120 |       |
| Hexane                | ND     | < 30  |       | 160                       | 182   | µg/g  | 87.9  | 60 - 120 |       |
| 1-Propanol            | ND     | < 500 |       | 1490                      | 1610  | µg/g  | 92.5  | 70 - 130 |       |
| Methylethylketone     | ND     | < 500 |       | 1510                      | 1600  | µg/g  | 94.4  | 70 - 130 |       |
| Ethyl acetate         | ND     | < 200 |       | 1430                      | 1630  | µg/g  | 87.7  | 60 - 120 |       |
| 2-Butanol             | ND     | < 200 |       | 1450                      | 1630  | µg/g  | 89.0  | 60 - 120 |       |
| Tetrahydrofuran       | ND     | < 100 |       | 420                       | 506   | µg/g  | 83.0  | 60 - 120 |       |
| Cyclohexane           | ND     | < 200 |       | 1380                      | 1640  | µg/g  | 84.1  | 60 - 120 |       |
| 2-methyl-1-propanol   | ND     | < 500 |       | 1360                      | 1620  | µg/g  | 84.0  | 70 - 130 |       |
| Benzene               | ND     | < 1   |       | 3.9                       | 4.93  | µg/g  | 79.1  | 60 - 120 |       |
| Isopropyl Acetate     | ND     | < 200 |       | 1460                      | 1640  | µg/g  | 89.0  | 60 - 120 |       |
| Heptane               | ND     | < 200 |       | 1400                      | 1630  | µg/g  | 85.9  | 60 - 120 |       |
| 1-Butanol             | ND     | < 500 |       | 1400                      | 1600  | µg/g  | 87.5  | 70 - 130 |       |
| Propyl Acetate        | ND     | < 500 |       | 1460                      | 1620  | µg/g  | 90.1  | 70 - 130 |       |
| 1,4-Dioxane           | ND     | < 100 |       | 391                       | 493   | µg/g  | 79.3  | 60 - 120 |       |
| 2-Ethoxyethanol       | ND     | < 30  |       | 151                       | 171   | µg/g  | 88.3  | 60 - 120 |       |
| Methylisobutylketone  | ND     | < 500 |       | 1410                      | 1620  | µg/g  | 87.0  | 70 - 130 |       |
| 3-Methyl-1-butanol    | ND     | < 500 |       | 1400                      | 1610  | µg/g  | 87.0  | 70 - 130 |       |
| Ethylene Glycol       | ND     | < 200 |       | 380                       | 494   | µg/g  | 76.9  | 60 - 120 |       |
| Toluene               | ND     | < 100 |       | 378                       | 506   | µg/g  | 74.7  | 60 - 120 |       |
| Isobutyl Acetate      | ND     | < 500 |       | 1450                      | 1620  | µg/g  | 89.5  | 70 - 130 |       |
| 1-Pentanol            | ND     | < 500 |       | 1420                      | 1610  | µg/g  | 88.2  | 70 - 130 |       |
| Butyl Acetate         | ND     | < 500 |       | 1430                      | 1610  | µg/g  | 88.8  | 70 - 130 |       |
| Ethylbenzene          | ND     | < 200 |       | 728                       | 996   | µg/g  | 73.1  | 60 - 120 |       |
| m,p-Xylene            | ND     | < 200 |       | 737                       | 1010  | µg/g  | 73.0  | 60 - 120 |       |
| o-Xylene              | ND     | < 200 |       | 709                       | 979   | µg/g  | 72.4  | 60 - 120 |       |
| Cumene                | ND     | < 30  |       | 133                       | 188   | µg/g  | 70.7  | 60 - 120 |       |
| Anisole               | ND     | < 500 |       | 1080                      | 1610  | µg/g  | 67.1  | 70 - 130 | Q6    |
| DMSO                  | ND     | < 500 |       | 1070                      | 1600  | µg/g  | 66.9  | 70 - 130 | Q6    |
| 1,2-dimethoxyethane   | ND     | < 50  |       | 173                       | 190   | µg/g  | 91.1  | 70 - 130 |       |
| Triethylamine         | ND     | < 500 |       | 1400                      | 1610  | µg/g  | 87.0  | 70 - 130 |       |
| N,N-dimethylformamide | ND     | < 150 |       | 388                       | 496   | µg/g  | 78.2  | 70 - 130 |       |
| N,N-dimethylacetamide | ND     | < 150 |       | 364                       | 483   | µg/g  | 75.4  | 70 - 130 |       |
| Pyridine              | ND     | < 50  |       | 126                       | 167   | µg/g  | 75.4  | 70 - 130 |       |
| 1,2-Dichloroethane    | ND     | < 1   |       | 1.2                       | 1     | µg/g  | 120.0 | 70 - 130 |       |
| Chloroform            | ND     | < 1   |       | 1.16                      | 1     | µg/g  | 116.0 | 70 - 130 |       |
| Trichloroethylene     | ND     | < 1   |       | 1.16                      | 1     | µg/g  | 116.0 | 70 - 130 |       |
| 1,1-Dichloroethane    | ND     | < 1   |       | 1.18                      | 1     | µg/g  | 118.0 | 70 - 130 |       |



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**Report Number:** 22-012064/D002.R000  
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**Purchase Order:**  
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Legacy ID: CFL-E33Effective:

| QC - Sample Duplicate |        |             | Sample ID: 22-011454-0004 |       |     |        |             |       |
|-----------------------|--------|-------------|---------------------------|-------|-----|--------|-------------|-------|
| 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               | 689    | 698         | 200                       | µg/g  | 1.3 | < 20   | Acceptable  |       |
| Ethyl Ether           | ND     | ND          | 200                       | µg/g  | 0.0 | < 20   | Acceptable  |       |
| 2,2-Dimethylbutane    | ND     | ND          | 30                        | µg/g  | 0.0 | < 20   | Acceptable  |       |
| Acetone               | ND     | ND          | 200                       | µg/g  | 0.0 | < 20   | Acceptable  |       |
| 2-Propanol            | ND     | ND          | 200                       | µg/g  | 0.0 | < 20   | Acceptable  |       |
| Ethyl Formate         | ND     | ND          | 500                       | µg/g  | 0.0 | < 20   | Acceptable  |       |
| Acetonitrile          | ND     | ND          | 100                       | µg/g  | 0.0 | < 20   | Acceptable  |       |
| Methyl Acetate        | ND     | ND          | 500                       | µg/g  | 0.0 | < 20   | Acceptable  |       |
| 2,3-Dimethylbutane    | ND     | ND          | 30                        | µg/g  | 0.0 | < 20   | Acceptable  |       |
| Dichloromethane       | ND     | ND          | 60                        | µg/g  | 0.0 | < 20   | Acceptable  |       |
| 2-Methylpentane       | ND     | ND          | 30                        | µg/g  | 0.0 | < 20   | Acceptable  |       |
| MTBE                  | ND     | ND          | 500                       | µg/g  | 0.0 | < 20   | Acceptable  |       |
| 3-Methylpentane       | ND     | ND          | 30                        | µg/g  | 0.0 | < 20   | Acceptable  |       |
| Hexane                | ND     | ND          | 30                        | µg/g  | 0.0 | < 20   | Acceptable  |       |
| 1-Propanol            | ND     | ND          | 500                       | µg/g  | 0.0 | < 20   | Acceptable  |       |
| Methyl ethyl ketone   | ND     | ND          | 500                       | µg/g  | 0.0 | < 20   | Acceptable  |       |
| Ethyl acetate         | ND     | ND          | 200                       | µg/g  | 0.0 | < 20   | Acceptable  |       |
| 2-Butanol             | ND     | ND          | 200                       | µg/g  | 0.0 | < 20   | Acceptable  |       |
| Tetrahydrofuran       | ND     | ND          | 100                       | µg/g  | 0.0 | < 20   | Acceptable  |       |
| Cyclohexane           | ND     | ND          | 200                       | µg/g  | 0.0 | < 20   | Acceptable  |       |
| 2-methyl-1-propanol   | ND     | ND          | 500                       | µg/g  | 0.0 | < 20   | Acceptable  |       |
| Benzene               | ND     | ND          | 1                         | µg/g  | 0.0 | < 20   | Acceptable  |       |
| Isopropyl Acetate     | ND     | ND          | 200                       | µg/g  | 0.0 | < 20   | Acceptable  |       |
| Heptane               | ND     | ND          | 200                       | µg/g  | 0.0 | < 20   | Acceptable  |       |
| 1-Butanol             | ND     | ND          | 500                       | µg/g  | 0.0 | < 20   | Acceptable  |       |
| Propyl Acetate        | ND     | ND          | 500                       | µg/g  | 0.0 | < 20   | Acceptable  |       |
| 1,4-Dioxane           | ND     | ND          | 100                       | µg/g  | 0.0 | < 20   | Acceptable  |       |
| 2-Ethoxyethanol       | ND     | ND          | 30                        | µg/g  | 0.0 | < 20   | Acceptable  |       |
| Methylisobutylketone  | ND     | ND          | 500                       | µg/g  | 0.0 | < 20   | Acceptable  |       |
| 3-Methyl-1-butanol    | ND     | ND          | 500                       | µg/g  | 0.0 | < 20   | Acceptable  |       |
| Ethylene Glycol       | ND     | ND          | 200                       | µg/g  | 0.0 | < 20   | Acceptable  |       |
| Toluene               | ND     | ND          | 100                       | µg/g  | 0.0 | < 20   | Acceptable  |       |
| Isobutyl Acetate      | ND     | ND          | 500                       | µg/g  | 0.0 | < 20   | Acceptable  |       |
| 1-Pentanol            | ND     | ND          | 500                       | µg/g  | 0.0 | < 20   | Acceptable  |       |
| Butyl Acetate         | ND     | ND          | 500                       | µg/g  | 0.0 | < 20   | Acceptable  |       |
| Ethylbenzene          | ND     | ND          | 200                       | µg/g  | 0.0 | < 20   | Acceptable  |       |
| m,p-Xylene            | ND     | ND          | 200                       | µg/g  | 0.0 | < 20   | Acceptable  |       |
| o-Xylene              | ND     | ND          | 200                       | µg/g  | 0.0 | < 20   | Acceptable  |       |
| Cumene                | ND     | ND          | 30                        | µg/g  | 0.0 | < 20   | Acceptable  |       |
| Anisole               | ND     | ND          | 500                       | µg/g  | 0.0 | < 20   | Acceptable  |       |
| DMSO                  | ND     | ND          | 500                       | µg/g  | 0.0 | < 20   | Acceptable  |       |
| 1,2-dimethoxyethane   | ND     | ND          | 50                        | µg/g  | 0.0 | < 20   | Acceptable  |       |
| Triethylamine         | ND     | ND          | 500                       | µg/g  | 0.0 | < 20   | Acceptable  |       |
| N,N-dimethylformamide | ND     | ND          | 150                       | µg/g  | 0.0 | < 20   | Acceptable  |       |
| N,N-dimethylacetamide | ND     | ND          | 150                       | µg/g  | 0.0 | < 20   | Acceptable  |       |
| Pyridine              | ND     | ND          | 50                        | µg/g  | 0.0 | < 20   | Acceptable  |       |
| 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:** 22-012064/D002.R000  
**Report Date:** 10/13/2022  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 10/06/22 12:46





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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.                      |