



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



Report Number: 23-005145/D002.R000
Report Date: 05/04/2023
ORELAP#: OR100028
Purchase Order:
Received: 04/28/23 11:40

Customer: NW Natural Goods
Product identity: HEMP - RB 0105
Client/Metric ID: .
Laboratory ID: 23-005145-0001

Summary

Potency:

| Analyte per 4g | Result | Limits | Units | Status | |
|----------------|--------|--------|-------|--------|---------------------------------------|
| CBC per 4g | 0.217 | | mg/4g | | CBD-Total per Serving Size 26.9 mg/4g |
| CBD per 4g | 26.9 | | 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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Received: 04/28/23 11:40

Customer: NW Natural Goods

Product identity: HEMP - RB 0105

Client/Metric ID: .

Sample Date:

Laboratory ID: 23-005145-0001

Evidence of Cooling: No

Temp: 20.6

Relinquished by: ramos

Serving Size #1: 4 g

Sample Results

| Potency per 4g | | | | | |
|---|--------|--------|-------|-------|-------|
| Method: J AOAC 2015 V98-6 (mod) ^b | | | | | |
| Units mg/se Batch: 2306924 Analyze: 5/1/23 5:25:00 PM | | | | | |
| Analyte | Result | Limits | Units | LOQ | Notes |
| CBC per 4g | 0.217 | | mg/4g | 0.127 | |
| CBC-A per 4g | < LOQ | | mg/4g | 0.127 | |
| CBC-Total per 4g | < LOQ | | mg/4g | 0.238 | |
| CBD per 4g | 26.9 | | mg/4g | 0.127 | |
| CBD-A per 4g | < LOQ | | mg/4g | 0.127 | |
| CBD-Total per 4g | 26.9 | | mg/4g | 0.238 | |
| CBDV per 4g | < LOQ | | mg/4g | 0.127 | |
| CBDV-A per 4g | < LOQ | | mg/4g | 0.127 | |
| CBDV-Total per 4g | < LOQ | | mg/4g | 0.237 | |
| CBE per 4g | < LOQ | | mg/4g | 0.127 | |
| CBG per 4g | 0.752 | | mg/4g | 0.127 | |
| CBG-A per 4g | < LOQ | | mg/4g | 0.127 | |
| CBG-Total per 4g | 0.752 | | mg/4g | 0.237 | |
| CBL per 4g | < LOQ | | mg/4g | 0.127 | |
| CBL-A per 4g | < LOQ | | mg/4g | 0.127 | |
| CBL-Total per 4g | < LOQ | | mg/4g | 0.238 | |
| CBN per 4g | < LOQ | | mg/4g | 0.127 | |
| CBT per 4g | < LOQ | | mg/4g | 0.127 | |
| Δ8-THCV per 4g | < LOQ | | mg/4g | 0.127 | |
| Δ10-THC-9R per 4g | < LOQ | | mg/4g | 0.127 | |
| Δ10-THC-9S per 4g | < LOQ | | mg/4g | 0.127 | |
| Δ10-THC-Total per 4g | < LOQ | | mg/4g | 0.254 | |
| Δ8-THC per 4g | < LOQ | | mg/4g | 0.127 | |
| Δ9-THC per 4g | < LOQ | | mg/4g | 0.127 | |
| exo-THC per 4g | < LOQ | | mg/4g | 0.127 | |
| THC-A per 4g | < LOQ | | mg/4g | 0.127 | |
| THC-Total per 4g | < LOQ | | mg/4g | 0.238 | |
| THCV per 4g | < LOQ | | mg/4g | 0.127 | |
| THCV-A per 4g | < LOQ | | mg/4g | 0.127 | |
| THCV-Total per 4g | < LOQ | | mg/4g | 0.238 | |
| Total Cannabinoids per 4g | 28.0 | | mg/4g | | |



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Microbiology

| Analyte | Result | Limits | Units | LOQ | Batch | Analyzed Method | Status | Notes |
|-------------------------|--------|--------|-------|-----|---------|---|--------|-------|
| E.coli | < LOQ | | cfu/g | 10 | 2306850 | 05/01/23 AOAC 991.14 (Petrifilm) [®] | | |
| Total Coliforms | < LOQ | | cfu/g | 10 | 2306850 | 05/01/23 AOAC 991.14 (Petrifilm) [®] | | |
| Mold (RAPID Petrifilm) | < LOQ | | cfu/g | 10 | 2306851 | 05/02/23 AOAC 2014.05 (RAPID) [®] | | |
| Yeast (RAPID Petrifilm) | < LOQ | | cfu/g | 10 | 2306851 | 05/02/23 AOAC 2014.05 (RAPID) [®] | | |

Solvents Method: Residual Solvents by GC/MS[®] Units µg/g Batch 2306966 Analyze 05/03/23 02:34 PM

| Analyte | Result | Limits | LOQ | Status | Notes | Analyte | Result | Limits | LOQ | Status | Notes |
|----------------------------|--------|--------|------|--------|-------|-----------------------------------|--------|--------|------|--------|-------|
| 1,4-Dioxane | < LOQ | 380 | 100 | pass | | 2-Butanol | < LOQ | 5000 | 200 | pass | |
| 2-Ethoxyethanol | < LOQ | 160 | 30.0 | pass | | 2-Methylbutane (Isopentane) | < LOQ | | 200 | | |
| 2-Methylpentane | < LOQ | | 30.0 | | | 2-Propanol (IPA) | < LOQ | 5000 | 200 | pass | |
| 2,2-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)[®] Units mg/kg Batch 2306947 Analyze 05/03/23 10:06 AM

| 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 | 0.0153 | 2306940 | 05/02/23 AOAC 2013.06 (mod.) [®] | pass | |
| Cadmium* | < LOQ | 0.200 | mg/kg | 0.0153 | 2306940 | 05/02/23 AOAC 2013.06 (mod.) [®] | pass | |
| Lead* | < LOQ | 0.500 | mg/kg | 0.0153 | 2306940 | 05/02/23 AOAC 2013.06 (mod.) [®] | pass | |
| Mercury* | < LOQ | 0.100 | mg/kg | 0.00763 | 2306940 | 05/02/23 AOAC 2013.06 (mod.) [®] | pass | |



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Nutrition

| Analyte | Result | Limits | Units | LOQ | Batch | Analyzed Method | Status | Notes |
|---------------------------|--------|--------|--------|-------|---------|--|--------|-------|
| Moisture (Loss on Drying) | 18.2 | | g/100g | 0.10 | 2306942 | 05/02/23 AOAC 925.10 (mod.) ^p | | |
| Water Activity | 0.691 | | Aw | 0.030 | 2306871 | 05/01/23 AOAC 978.18 ^p | | |



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Abbreviations

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

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

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

[¥] = 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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Cannab s Mu t -Res due Prof e, L m ts of Quant tat on

| Compound | LOQ (mg/kg) | Compound | LOQ (mg/kg) | Compound | LOQ (mg/kg) |
|-------------------------------|-------------|------------------------|-------------|----------------------------|-------------|
| Abamec in | 0.100 | Cle hodim | 0.050 | ndrin | 0.100 |
| Acepha e | 0.100 | Cle hodim Sul one | 0.050 | PN | 0.050 |
| Acequinocyl | 0.100 | Cle hodim Sul oxide | 0.050 | PTC | 0.100 |
| Ace amiprid | 0.020 | Clo en ezine | 0.020 | s envalera e/ envalera e | 0.200 |
| Ace ochlor | 0.100 | Clomazone | 0.020 | aconazole | 0.100 |
| Acrina hrin | 0.100 | Clo hianidin | 0.200 | hal luralin | 0.100 |
| Alachlor | 0.100 | Coumaphos | 0.050 | hio encarb | 0.050 |
| Aldicarb | 0.100 | Cro oxyphos | 0.020 | hion | 0.200 |
| Aldicarb sul oxide | 0.100 | Cyanazine | 0.020 | hirimol | 0.100 |
| Aldoxycarb (Aldicarb-sul one) | 0.100 | Cyano enphos | 0.020 | ho umesa e | 0.050 |
| Aldrin | 0.100 | Cyan raniliprole | 0.050 | hoprophos | 0.020 |
| Ame ocr radin | 0.020 | Cyazo amid | 0.020 | o enprox | 0.020 |
| Ame ryn | 0.500 | Cycloa e | 0.100 | oxazole | 0.020 |
| Aspon | 0.100 | Cy lu hrin | 0.200 | ridiazole | 0.100 |
| Asulam | 0.100 | Cyhalo hrin, lambda | 0.200 | rim os | 0.020 |
| A razine | 0.100 | Cymoxanil | 0.050 | amoxadone | 0.200 |
| A razine-dese hyl | 0.100 | Cyperme hrin | 0.200 | amphur | 0.100 |
| Azinphos-e hyl | 0.020 | Cyprodinil | 0.100 | enamidone | 0.020 |
| Azinphos-me hyl | 0.020 | Dac hal | 0.100 | enamiphos | 0.020 |
| Azoxys robin | 0.020 | Daminozide | 0.100 | enamiphos sul one | 0.020 |
| Benalaxyl | 0.020 | DCPMU | 0.050 | enamiphos sul oxide | 0.020 |
| Bendiocarb | 0.020 | DDD, o,p'- | 0.100 | enazaquin | 0.100 |
| Ben luralin | 0.100 | DDD, p,p'- | 0.100 | enbuconazole | 0.100 |
| Benoxacor | 0.050 | DD , o,p'- | 0.100 | enchlorphos | 0.100 |
| Bensulide | 0.050 | DD , p,p'- | 0.100 | enchlorphos-oxon | 0.100 |
| B C alpha isomer | 0.100 | DDT, o,p'- | 0.100 | enhexamid | 0.100 |
| B C be a isomer | 0.100 | DDT, p,p'- | 0.100 | eni ro hion | 0.100 |
| B C del a isomer | 0.500 | D (Tribu os) | 0.100 | enobucarb | 0.050 |
| Bi enaza e | 0.020 | Del ame hrin | 0.100 | enoxycarb | 0.020 |
| Bi en hrin | 0.020 | Desmedipham | 0.100 | enpropa hrin | 0.050 |
| Boscalid | 0.020 | Dialla e | 0.100 | enpyroxima e | 0.020 |
| Bromophos-e hyl | 0.100 | Diazinon | 0.020 | enson | 0.100 |
| Bromophos-me hyl | 0.200 | Diazoxon | 0.100 | ensul o hion | 0.020 |
| Bromopropyla e | 0.100 | Dichlobenil | 0.100 | ensul o hion oxon | 0.020 |
| Bromuconazole | 0.100 | Dichlo luanid | 0.100 | ensul o hion sul one | 0.100 |
| Bupirima e | 0.020 | Dichlorvos | 0.100 | Fensulfothion-oxon-sulfone | 0.020 |
| Bupro ezin | 0.050 | Diclobu razol | 0.050 | en hion | 0.050 |
| Bu achlor | 0.500 | Dico ol | 0.100 | en hion oxon | 0.020 |
| Bu ralin | 0.200 | Dicro ophos | 0.050 | en hion oxon sul one | 0.100 |
| Bu yla e | 0.100 | Dieldrin | 0.100 | en hion sul one | 0.050 |
| Cadusa os | 0.020 | Die ho encarb | 0.020 | enuron | 0.020 |
| Cap an | 1.000 | Die hyl oluamide (D T) | 0.050 | ipronil | 0.100 |
| Carbaryl | 0.050 | Di enoconazole | 0.100 | lonicamid | 0.100 |
| Carbendazim | 0.100 | Dime henamid | 0.050 | luchloralin | 0.100 |
| Carbo uran | 0.020 | Dime hoa e | 0.050 | lucy hrina e | 0.100 |
| Carbopheno hion | 0.200 | Dime homorph | 0.050 | ludioxonil | 0.200 |
| Carboxin | 0.020 | Diniconazole | 0.200 | lu enace | 0.020 |
| Car en razone-e hyl | 0.100 | Dino e uran | 0.200 | lumioxazin | 0.100 |
| Chloran raniliprole | 0.020 | Dioxa hion | 0.100 | luome uron | 0.020 |
| Chlordane, cis- | 0.200 | Diphenamid | 0.020 | luopicolide | 0.050 |
| Chlordane, rans- | 0.200 | Diphenylamine | 0.100 | luopyram | 0.020 |
| Chlor enapyr | 0.500 | Disul o on | 0.100 | luoxas robin | 0.050 |
| Chlor enson | 0.200 | Disul o on sul one | 0.100 | lupyradi urone | 0.020 |
| Chlor envinphos | 0.050 | Disul o on sul oxide | 0.100 | luridone | 0.100 |
| Chlorobenzila e | 0.100 | Diuron | 0.050 | lusilazole | 0.020 |
| Chloroneb | 0.200 | di enphos | 0.050 | lu olanil | 0.020 |
| Chlorpyri os | 0.050 | ndosul an alpha | 0.200 | lu ria ol | 0.020 |
| Chlorpyri os-me hyl | 0.200 | ndosul an be a | 0.200 | lualina e, au- | 0.100 |
| C PC | 1.000 | ndosul an sul a e | 0.100 | luxapyroxad | 0.020 |



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Cannab s Mu t -Res due Prof e, L m ts of Quant tat on

| Compound | LOQ (mg/kg) | Compound | LOQ (mg/kg) | Compound | LOQ (mg/kg) |
|----------------------|-------------|-------------------------------|-------------|--------------------------|-------------|
| omesa en | 0.100 | Mexacarba e | 0.020 | Propamocarb | 0.050 |
| ono os | 0.100 | MGK 264 | 0.020 | Propanil | 0.050 |
| orchlor enuron | 0.050 | Mirex | 0.100 | Propargi e | 0.050 |
| orme ana e | 0.050 | Molina e | 0.050 | Propazine | 0.020 |
| ura hiocarb | 0.020 | Monocro ophos | 0.100 | Prope amphos | 0.050 |
| ep achlor | 0.100 | Monolinuron | 0.020 | Propham | 0.050 |
| ep achlor epoxide | 0.100 | Myclobu anil | 0.050 | Propiconazole | 0.050 |
| ep enphos | 0.100 | Naled | 0.100 | Propoxur | 0.050 |
| exachlorobenzene | 0.100 | Napropamide | 0.050 | Propoxycarbazone Na | 0.050 |
| exaconazole | 0.100 | Neburon | 0.020 | Propyzamide | 0.050 |
| exazinone | 0.100 | Ni rapyrin | 0.100 | Pro hio os | 0.100 |
| exy hiazox | 0.020 | Nor lurazon | 0.050 | Pyraclos robin | 0.020 |
| mazalil | 0.100 | Ome hoa e | 0.100 | Pyrazophos | 0.050 |
| midacloprid | 0.100 | O-Phenylphenol | 0.100 | Pyre hrins | 0.050 |
| ndazi lam | 0.020 | Oxadixyl | 0.100 | Pyridaben | 0.020 |
| ndoxacarb | 0.020 | Oxamyl | 0.100 | Pyrida ol | 0.100 |
| proben os | 0.100 | Oxamyl-oxime | 0.100 | Pyrida e | 0.020 |
| prodione | 0.100 | Oxychlorthane | 0.100 | Pyrima hanil | 0.050 |
| sobenzan | 0.100 | Oxydeme on-Me hyl | 0.100 | Pyriproxi en | 0.020 |
| socarbophos | 0.500 | Oxy hioquinox | 0.200 | Pyroxasul one | 0.020 |
| sodrin | 0.100 | Paclobu razol | 0.050 | Pyroxulam | 0.020 |
| so enphos | 0.050 | Paraaxon-e hyl | 0.020 | Quinalphos | 0.050 |
| so enphos-me hyl | 0.020 | Paraaxon me hyl | 0.100 | Quinoxyl en | 0.050 |
| so enphos oxon | 0.050 | Para hion e hyl | 0.100 | Quin ozene (PCNB) | 0.200 |
| soproc carb | 0.020 | Para hion me hyl | 0.200 | Resme hrin | 0.050 |
| sopropalin | 0.200 | Penconazole | 0.050 | Ro enone | 0.050 |
| sopro hiolane | 0.050 | Pendime halin | 0.050 | S421 | 0.100 |
| sopro uron | 0.050 | Pen lu en | 0.020 | Simazine | 0.100 |
| soxaben | 0.050 | Pen achloroaniline | 0.100 | Sime ryn | 0.200 |
| soxa lu ole | 0.050 | Pen achloroanisole | 0.100 | Spine oram | 0.020 |
| Kresoxim-me hyl | 0.050 | Pen achlorobenzene (PCB) | 0.100 | Spinosad | 0.050 |
| ac o en | 0.500 | Pentachlorothioanisole (PCTA) | 0.100 | Spirodiclo en | 0.100 |
| enacil | 0.100 | Pen hiopyrad | 0.020 | Spiromesi en | 0.050 |
| indane (gamma B C) | 0.100 | Perme hrin | 0.050 | Spiro e rama | 0.050 |
| inuron | 0.020 | Per hane | 0.100 | Spiroxamine | 0.020 |
| Malaaxon | 0.050 | Phenmedipham | 0.050 | Sul o ep | 0.050 |
| Mala hion | 0.050 | Phen hoa e | 0.050 | Sul oxa lor | 0.050 |
| Mandipropamid | 0.020 | Phora e | 0.050 | Sulpro os | 0.020 |
| Mecarbam | 0.020 | Phora e Sul one | 0.050 | Tebuconazole | 0.100 |
| Mepanipyrim | 0.050 | Phora e Sul oxide | 0.050 | Tebu enozide | 0.020 |
| Merphos | 0.500 | Phosalone | 0.050 | Tebu hiuron | 0.020 |
| Me alaxyl | 0.050 | Phosme | 0.100 | Tecnazene | 0.100 |
| Me aldehyde | 0.050 | Phosphamidon | 0.050 | Te lu hrin | 0.100 |
| Me conazole | 0.100 | Phoxim | 0.050 | Terbu os | 0.020 |
| Me hacri os | 0.100 | Pinoxaden | 0.020 | Terbu os sul one | 0.050 |
| Me hamidophos | 0.050 | Piperonyl bu oxide | 0.050 | Terbu os sul oxide | 0.050 |
| Me hida hion | 0.050 | Pirimicarb | 0.020 | Terbu hylazine | 0.020 |
| Me hiocarb | 0.050 | Pirimiphos-me hyl | 0.050 | Terbu ryn | 0.020 |
| Me hiocarb sul one | 0.100 | Pirimiphos-e hyl | 0.020 | Te rachlorvinphos | 0.050 |
| Me hiocarb sul oxide | 0.100 | Pralle hrin | 0.100 | Te raconazole | 0.050 |
| Me homyl | 0.100 | Prochloraz | 0.020 | Te radi on | 0.200 |
| Me hoxychlor | 0.100 | Procymidone | 0.100 | Te rame hrin | 0.050 |
| Me hoxy enozide | 0.020 | Pro eno os | 0.100 | Te rasul | 0.100 |
| Me obromuron | 0.050 | Pro luralin | 0.100 | Thiabendazole | 0.100 |
| Me olachlor | 0.100 | Promecarb | 0.050 | Thiabendazole, 5-hydroxy | 0.100 |
| Me olcarb | 0.050 | Prome on | 0.100 | Thiacloprid | 0.050 |
| Me ra enone | 0.050 | Prome ryn | 0.020 | Thiame hoxam | 0.100 |
| Me ribuzin | 0.100 | Propachlor | 0.020 | Thiobencarb | 0.050 |
| Mevinphos | 0.100 | | | Thiodicarb | 0.050 |
| | | | | Thiophana e-me hyl | 0.050 |



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Cannab s Mu t-Res due Prof e, L m ts of Quant tat on

| Compound | LOQ (mg/kg) | Compound | LOQ (mg/kg) | Compound | LOQ (mg/kg) |
|------------------|-------------|--------------|-------------|-----------------|-------------|
| Tolclo os-me hyl | 0.100 | Triazophos | 0.020 | Tri loxys robin | 0.020 |
| Tri orin | 0.100 | Tolyl luanid | 0.050 | Tri iconazole | 0.050 |
| Tralkoxydim | 0.100 | Tridiphane | 0.500 | Vinclozolin | 0.100 |
| Triadime on | 0.050 | Tri lumizole | 0.020 | Zoxamide | 0.020 |
| Trialla e | 0.100 | Tri luralin | 0.100 | | |

LOQ= Limit of Quantitation, mg/kg

Factors affecting the LOQ include instrument sensitivity or 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: Usable / Extract / Finished Product
Chain of Custody, Record

Northwest-Natural-Goods-
1682634716

ORELAP ID: OR1000028 ANAB ISO 17025 ID: AT1508

| Project Information | | Testing | | | | | | | |
|--|------------------|--|--------------------------|-----------------------------------|-----------------------------------|------------------------|--------------------------|----------------------|---|
| Project Name: <u>HEMP - RB 0105</u> PO Number: <u>N/A</u> Turnaround Time: <u>5 Business Days (standard) / (required for microbial testing)</u> Samples Delivered to Laboratory: <u>Schedule Pick-Up</u> Cannabis Type: <u>Indica/Dominant</u> Pick-Up Location Street Address: <u>11731 SE HWY 212 #104</u> City, State, Zip: <u>Clackamas, Oregon 97015</u> Pick-Up Location Phone: <u>385559210</u> | | Heavy Metals Profile OR (As, Cd, Pb, & Hg) | Mesure as Loss on Drying | Pesticide - Multi-Residue Profile | Potency Cannabinoid Basic Profile | Residual Solvents - OR | Total Coliforms + E.Coli | Yield Activity | |
| # | Sample Name | Matrix | Amount Provided | Testing Comments | | | | | |
| 1 | HEMP - RB 0105 | edible | 20 units for sale | MIC, Yeast & Mold | | ✓ | ✓ | ✓ | ✓ |
| Relinquished By | Date | Time | Temp., °C | Received By | Date | Time | Received Temp., °C | Evidence of Cooling? | |
| <i>Kristen Johnson</i> | <i>4/27/2023</i> | <i>15:31</i> | | <i>BR</i> | <i>4/28/2023</i> | <i>10:24</i> | | <i>No</i> | |
| <i>BR</i> | <i>4/28/2023</i> | <i>10:59</i> | <i>20.6</i> | <i>rbe</i> | <i>4/28/2023</i> | <i>11:40</i> | | <i>No</i> | |

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

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



Report Number: 23-005145/D002.R000
Report Date: 05/04/2023
ORELAP#: OR100028
Purchase Order:
Received: 04/28/23 11:40

Revision 1 Documen D 7148
Legacy D Workshee Valida ed 04/20/2021

Laboratory Quality Control Results

JAOAC2015 V98-6 Batch ID: 2306924

| Laboratory Control Sample | | | | | | | | | |
|---------------------------|-----|--------|-------|-------|-------|--------|-------|------------|-------|
| Analyte | LCS | Result | Spike | Units | % Rec | Limits | | Evaluation | Notes |
| CBDVA | 2 | 0.0320 | 0.030 | % | 105 | 80.0 | - 120 | Acceptable | |
| CBDV | 2 | 0.0314 | 0.030 | % | 106 | 80.0 | - 120 | Acceptable | |
| CBE | 2 | 0.0355 | 0.034 | % | 105 | 80.0 | - 120 | Acceptable | |
| CBDA | 1 | 0.0337 | 0.032 | % | 105 | 90.0 | - 110 | Acceptable | |
| CBGA | 1 | 0.0285 | 0.027 | % | 106 | 80.0 | - 120 | Acceptable | |
| CBG | 1 | 0.0345 | 0.033 | % | 106 | 80.0 | - 120 | Acceptable | |
| CBD | 1 | 0.0301 | 0.029 | % | 105 | 90.0 | - 110 | Acceptable | |
| THCV | 2 | 0.0232 | 0.023 | % | 103 | 80.0 | - 120 | Acceptable | |
| d8THCV | 2 | 0.0285 | 0.027 | % | 107 | 80.0 | - 120 | Acceptable | |
| THCVA | 2 | 0.0325 | 0.031 | % | 104 | 80.0 | - 120 | Acceptable | |
| CBN | 1 | 0.0302 | 0.029 | % | 106 | 80.0 | - 120 | Acceptable | |
| exo-THC | 2 | 0.0323 | 0.031 | % | 105 | 80.0 | - 120 | Acceptable | |
| d9THC | 1 | 0.0346 | 0.034 | % | 101 | 90.0 | - 110 | Acceptable | |
| d8THC | 1 | 0.0342 | 0.033 | % | 104 | 90.0 | - 110 | Acceptable | |
| 9S-d10THC | 1 | 0.0344 | 0.034 | % | 103 | 80.0 | - 120 | Acceptable | |
| CBL | 2 | 0.0336 | 0.032 | % | 104 | 80.0 | - 120 | Acceptable | |
| 9R-d10THC | 1 | 0.0336 | 0.032 | % | 106 | 80.0 | - 120 | Acceptable | |
| CBC | 2 | 0.0320 | 0.030 | % | 106 | 80.0 | - 120 | Acceptable | |
| THCA | 1 | 0.0401 | 0.037 | % | 108 | 90.0 | - 110 | Acceptable | |
| CBCA | 2 | 0.0344 | 0.032 | % | 106 | 80.0 | - 120 | Acceptable | |
| CBLA | 2 | 0.0343 | 0.032 | % | 107 | 80.0 | - 120 | Acceptable | |
| CBT | 2 | 0.0349 | 0.033 | % | 106 | 80.0 | - 120 | Acceptable | |

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

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

Units of Measure:
% - Percent



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Report Number: 23-005145/D002.R000
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Received: 04/28/23 11:40

Revision 1 Documen D 7148
 Legacy D Workshee Valida ed 04/20/2021

Laboratory Quality Control Results

| JAOAC2015 V98-6 | | Batch ID: 2306924 | | | | | | |
|------------------|--------|---------------------------|-------|-------|------|--------|------------|-------|
| Sample Duplicate | | Sample ID: 23-005109-0001 | | | | | | |
| Analyte | Result | Org. Result | LOQ | Units | RPD | Limits | Evaluation | Notes |
| CBDVA | <LOQ | <LOQ | 0.003 | % | NA | < 20 | Acceptable | |
| CBDV | <LOQ | <LOQ | 0.003 | % | NA | < 20 | Acceptable | |
| CBE | <LOQ | <LOQ | 0.003 | % | NA | < 20 | Acceptable | |
| CBD | <LOQ | <LOQ | 0.003 | % | NA | < 20 | Acceptable | |
| CBDV | <LOQ | <LOQ | 0.003 | % | NA | < 20 | Acceptable | |
| CBG | 0.0184 | 0.0182 | 0.003 | % | 1.40 | < 20 | Acceptable | |
| CBD | 0.656 | 0.647 | 0.003 | % | 1.34 | < 20 | Acceptable | |
| THCV | <LOQ | <LOQ | 0.003 | % | NA | < 20 | Acceptable | |
| d8THCV | <LOQ | <LOQ | 0.003 | % | NA | < 20 | Acceptable | |
| THCVA | <LOQ | <LOQ | 0.003 | % | NA | < 20 | Acceptable | |
| CBN | <LOQ | <LOQ | 0.003 | % | NA | < 20 | Acceptable | |
| exo-THC | <LOQ | <LOQ | 0.003 | % | NA | < 20 | Acceptable | |
| d9THC | <LOQ | <LOQ | 0.003 | % | NA | < 20 | Acceptable | |
| d8THC | <LOQ | <LOQ | 0.003 | % | NA | < 20 | Acceptable | |
| 9S-d10THC | <LOQ | <LOQ | 0.003 | % | NA | < 20 | Acceptable | |
| CBL | <LOQ | <LOQ | 0.003 | % | NA | < 20 | Acceptable | |
| 9R-d10THC | <LOQ | <LOQ | 0.003 | % | NA | < 20 | Acceptable | |
| CBC | 0.0055 | 0.0054 | 0.003 | % | 2.10 | < 20 | Acceptable | |
| THCA | <LOQ | <LOQ | 0.003 | % | NA | < 20 | Acceptable | |
| CBCA | <LOQ | <LOQ | 0.003 | % | NA | < 20 | Acceptable | |
| CBLA | <LOQ | <LOQ | 0.003 | % | NA | < 20 | Acceptable | |
| CBT | <LOQ | <LOQ | 0.003 | % | NA | < 20 | Acceptable | |

Abbreviations

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

Units of Measure:

% - Percent



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Revision 2 Document D 7087
 Legacy D CFL-E33Effective

Laboratory Quality Control Results

| Residual Solvents | | | | Batch ID: 2306966 | | | | | | |
|---------------------|--------|-------|-------|---------------------------|-------|-------|-------|--------|-------|--|
| Method Blank | | | | Laboratory Control Sample | | | | | | |
| Analyte | Result | LOQ | Notes | Result | Spike | Units | % Rec | Limits | Notes | |
| Propane | ND | < 200 | | 401 | 584 | µg/g | 68.7 | 60 | 120 | |
| Isobutane | ND | < 200 | | 511 | 767 | µg/g | 66.6 | 60 | 120 | |
| Butane | ND | < 200 | | 542 | 782 | µg/g | 69.3 | 60 | 120 | |
| 2,2 Dimethylpropane | ND | < 200 | | 705 | 939 | µg/g | 75.1 | 60 | 120 | |
| Methanol | ND | < 200 | | 1520 | 1610 | µg/g | 94.4 | 60 | 120 | |
| Ethylene Oxide | ND | < 30 | | 44 | 57.1 | µg/g | 77.1 | 60 | 120 | |
| 2 Methylbutane | ND | < 200 | | 1250 | 1600 | µg/g | 78.1 | 60 | 120 | |
| Pentane | ND | < 200 | | 1300 | 1610 | µg/g | 80.7 | 60 | 120 | |
| Ethanol | ND | < 200 | | 1320 | 1600 | µg/g | 82.5 | 70 | 130 | |
| Ethyl Ether | ND | < 200 | | 1270 | 1610 | µg/g | 78.9 | 60 | 120 | |
| 2,2 Dimethylbutane | ND | < 30 | | 134 | 173 | µg/g | 77.5 | 60 | 120 | |
| Acetone | ND | < 200 | | 1290 | 1620 | µg/g | 79.6 | 60 | 120 | |
| 2 Propanol | ND | < 200 | | 1250 | 1600 | µg/g | 78.1 | 60 | 120 | |
| Acetonitrile | ND | < 100 | | 386 | 488 | µg/g | 79.1 | 60 | 120 | |
| 2,3 Dimethylbutane | ND | < 30 | | 117 | 165 | µg/g | 70.9 | 60 | 120 | |
| Dichloromethane | ND | < 60 | | 411 | 487 | µg/g | 84.4 | 60 | 120 | |
| 2 Methylpentane | ND | < 30 | | 121 | 160 | µg/g | 75.6 | 60 | 120 | |
| 3 Methylpentane | ND | < 30 | | 123 | 161 | µg/g | 76.4 | 60 | 120 | |
| Hexane | ND | < 30 | | 124 | 162 | µg/g | 76.5 | 60 | 120 | |
| Ethyl acetate | ND | < 200 | | 1210 | 1600 | µg/g | 75.6 | 60 | 120 | |
| 2 Butanol | ND | < 200 | | 1220 | 1610 | µg/g | 75.8 | 60 | 120 | |
| tetrahydrofuran | ND | < 100 | | 362 | 483 | µg/g | 74.9 | 60 | 120 | |
| Cyclohexane | ND | < 200 | | 1210 | 1610 | µg/g | 75.2 | 60 | 120 | |
| Benzene | ND | < 1 | | 3.96 | 4.98 | µg/g | 79.5 | 60 | 120 | |
| Isopropyl Acetate | ND | < 200 | | 1220 | 1610 | µg/g | 75.8 | 60 | 120 | |
| Heptane | ND | < 200 | | 1210 | 1620 | µg/g | 74.7 | 60 | 120 | |
| 1,4 Dioxane | ND | < 100 | | 354 | 494 | µg/g | 71.7 | 60 | 120 | |
| 2 Ethoxyethanol | ND | < 30 | | 128 | 165 | µg/g | 77.6 | 60 | 120 | |
| Ethylene Glycol | ND | < 200 | | 322 | 486 | µg/g | 66.3 | 60 | 120 | |
| oluene | ND | < 100 | | 344 | 513 | µg/g | 67.1 | 60 | 120 | |
| Ethylbenzene | ND | < 200 | | 634 | 967 | µg/g | 65.6 | 60 | 120 | |
| m,p Xylene | ND | < 200 | | 638 | 994 | µg/g | 64.2 | 60 | 120 | |
| o Xylene | ND | < 200 | | 629 | 992 | µg/g | 63.4 | 60 | 120 | |
| Cumene | ND | < 30 | | 103 | 171 | µg/g | 60.2 | 60 | 120 | |



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Revision 2 Document D 7087
 Legacy D CFL-E33Effective

QC - Sample Duplicate **Sample ID: 23-005056-0001**

| 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 | |
| Acetonitrile | ND | ND | 100 | 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 | |
| 3 Methylpentane | ND | ND | 30 | µg/g | 0.0 | < 20 | Acceptable | |
| Hexane | ND | ND | 30 | 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 | |
| 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 | |
| 1,4 Dioxane | ND | ND | 100 | µg/g | 0.0 | < 20 | Acceptable | |
| 2 Ethoxyethanol | ND | ND | 30 | µg/g | 0.0 | < 20 | Acceptable | |
| Ethylene Glycol | ND | ND | 200 | µg/g | 0.0 | < 20 | Acceptable | |
| oluene | ND | ND | 100 | 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 | |

Abbreviations

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

Units of Measure:

µg/g Microgram per gram or ppm



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Explanation of QC Flag Comments:

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