

Kaycha Labs Oregon
 540 East Vilas Road, Suite F, Central Point, OR 97502
 541-668-7444 / OLCC 010-10166277B9D / www.kaychalabs.com

Rational Hemp Mountain Oil Trading Info Only



Confident Cannabis ID: 2103KR0103.1051

Sample ID: M210346-01

Matrix: Tincture

METRC Batch #:

Sampling Method/SOP: Client

Date Sampled: NA

Date Accepted: 03/24/21

Harvest/Process Lot ID:

Batch ID: 2101211.80

Batch Size (g):

Unit for Sale:

Harvest/Production Date:

Cannabinoid Analysis

FOR INFORMATIONAL USE ONLY - NOT FOR REGULATORY PURPOSES

Date/Time Extracted: 03/24/21 12:15

Analysis Method/SOP: SOP.T.40.020

Date/Time Analyzed: 03/25/21 03:58

| Cannabinoids | LOQ(%) | mg/g | % weight | Cannabinoid Profile |
|---------------------------------------|--------|--------------|--------------|---------------------|
| Total THC ((THCA*0.877)+Δ9THC) | | 2.15 | 0.215 | |
| Total CBD ((CBDA*0.877)+CBD) | | 84.50 | 8.450 | |
| THCA | 0.045 | < LOQ | < LOQ | |
| delta 9-THC | 0.045 | 2.15 | 0.215 | |
| delta 8-THC | 0.045 | < LOQ | < LOQ | |
| THCV | 0.045 | < LOQ | < LOQ | |
| CBGA | 0.045 | < LOQ | < LOQ | |
| CBDA | 0.045 | < LOQ | < LOQ | |
| CBD | 0.045 | 84.50 | 8.45 | |
| CBDV | 0.045 | 0.55 | 0.055 | |
| CBN | 0.045 | 0.50 | 0.050 | |
| CBG | 0.045 | 1.09 | 0.109 | |
| CBC | 0.045 | 2.79 | 0.279 | |
| THCV-A | 0.045 | < LOQ | < LOQ | |
| CBDV-A | 0.045 | < LOQ | < LOQ | |
| CBCA | 0.045 | < LOQ | < LOQ | |
| Sum of tested Cannabinoids | 0.045 | 91.60 | 9.16 | |

"Total THC" and "Total CBD" are calculated values and are an Oregon reporting requirement (OAR 333-064-0100). For Cannabinoid analysis, only delta 9-THC, THCA, CBD, CBDA are ORELAP accredited analytes. Cannabinoid values reported for plant matter are dry weight corrected; Oregon Water Activity action level is 0.65Aw and Oregon Moisture Content action level is 15%, Samples above limit will be highlighted RED; FD = Field Duplicate; LOQ = Limit of Quantitation.



Anthony Smith, Ph.D
 Laboratory Director - 3/31/2021

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Rational Hemp

Mountain Oil Trading

Info Only

Sample ID: M210346-01 METRC Batch #:

Matrix: Tincture

Date Sampled: NA

Date Accepted: 03/24/21

Batch ID: 2101211.80

Batch Size:

Sampling Method/SOP: Client

Terpene Analysis

Date/Time Extracted: 03/24/21 12:39

Analysis Method/SOP: SOP.T.40.092

Date/Time Analyzed: 03/25/21 02:35

| Analyte | LOQ (mg/g) | Mass (mg/g) | Mass (%) | Analyte | LOQ (mg/g) | Mass (mg/g) | Mass (%) |
|---------------------|------------|-------------|----------|----------------------|------------|-------------|-------------|
| alpha-Pinene | 0.080 | < LOQ | < LOQ | beta-Pinene | 0.080 | < LOQ | < LOQ |
| Camphene | 0.080 | < LOQ | < LOQ | Sabinene | 0.080 | < LOQ | < LOQ |
| Sabinene hydrate | 0.080 | < LOQ | < LOQ | beta-Myrcene | 0.080 | < LOQ | < LOQ |
| p-Mentha-1,5-diene | 0.080 | < LOQ | < LOQ | (+)-3-Carene | 0.080 | < LOQ | < LOQ |
| alpha-Terpinene | 0.080 | < LOQ | < LOQ | gamma-Terpinene | 0.080 | < LOQ | < LOQ |
| Limonene | 0.080 | < LOQ | < LOQ | Eucalyptol | 0.080 | < LOQ | < LOQ |
| Guaiol | 0.080 | 0.108 | 0.0108 | Terpinolene | 0.080 | < LOQ | < LOQ |
| Linalool | 0.080 | < LOQ | < LOQ | Camphor | 0.080 | < LOQ | < LOQ |
| (+)-Camphor | 0.080 | < LOQ | < LOQ | (-)-Camphor | 0.080 | < LOQ | < LOQ |
| Isopulegol | 0.080 | < LOQ | < LOQ | Isoborneol | 0.080 | < LOQ | < LOQ |
| Borneol | 0.080 | < LOQ | < LOQ | Hexahydrothymol | 0.080 | < LOQ | < LOQ |
| Geraniol | 0.080 | < LOQ | < LOQ | (+)-Pulegone | 0.080 | < LOQ | < LOQ |
| Nerol | 0.080 | < LOQ | < LOQ | cis-Nerolidol | 0.080 | < LOQ | < LOQ |
| trans-Nerolidol | 0.080 | 0.087 | 0.0087 | Geranyl acetate | 0.080 | < LOQ | < LOQ |
| alpha-Cedrene | 0.080 | < LOQ | < LOQ | trans-Caryophyllene | 0.080 | 0.885 | 0.0885 |
| Caryophyllene Oxide | 0.080 | 0.798 | 0.0798 | alpha-Humulene | 0.080 | 0.318 | 0.0318 |
| Valencene | 0.080 | < LOQ | < LOQ | alpha-Farnesene | 0.080 | < LOQ | < LOQ |
| beta-Farnesene | 0.080 | 0.209 | 0.0209 | Cedrol | 0.080 | 0.090 | 0.009 |
| alpha-Bisabolol | 0.080 | 0.223 | 0.0223 | Fenchone | 0.080 | < LOQ | < LOQ |
| Fenchyl Alcohol | 0.080 | < LOQ | < LOQ | trans, beta- Ocimene | 0.080 | < LOQ | < LOQ |
| beta, cis- Ocimene | 0.080 | < LOQ | < LOQ | Terpineol | 0.080 | 0.103 | 0.0103 |
| Total (Sum): | | | | | | 2.82 | 0.28 |

Analysis performed on GCMS with confirmation ion identification. Terpene analysis is not ORELAP accredited. Results reported as wet weight, or as is. LOQ = Limit of Quantitation. Terpene analysis performed in conjunction with EVIO Labs Portland.



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Rational Hemp

Mountain Oil Trading

Info Only

Sample ID: M210346-01

METRC Batch #:

Matrix: Tincture

Date Sampled: NA

Date Accepted: 03/24/21

Batch ID: 2101211.80

Batch Size:

Sampling Method/SOP: Client

Pesticides

Date/Time Extracted: 03/22/21 10:00

Date/Time Analyzed: 3/25/2021 3:38:45AM

Analysis Method/SOP: SOP.T.40.050 / SOP.T.40.051

| Analyte | LOQ | Action Level | Result | Units | Type |
|---------------------|-------|--------------|--------|-------|---------------------------------|
| Abamectin | 0.250 | 0.5 | < LOQ | ppm | |
| Acephate | 0.200 | 0.4 | < LOQ | ppm | Organophosphate insecticide |
| Acequinocyl | 1.00 | 2 | < LOQ | ppm | |
| Acetamiprid | 0.100 | 0.2 | < LOQ | ppm | Neonicotinoid insecticide |
| Aldicarb | 0.200 | 0.4 | < LOQ | ppm | Carbamate insecticide |
| Azoxystrobin | 0.100 | 0.2 | < LOQ | ppm | |
| Bifenazate | 0.100 | 0.2 | < LOQ | ppm | Unclassified insecticide |
| Bifenthrin | 0.100 | 0.2 | < LOQ | ppm | |
| Boscalid | 0.200 | 0.4 | < LOQ | ppm | Anilide fungicide |
| Carbaryl | 0.100 | 0.2 | < LOQ | ppm | Carbamate insecticide |
| Carbofuran | 0.100 | 0.2 | < LOQ | ppm | Carbamate insecticide |
| Chlorantraniliprole | 0.100 | 0.2 | < LOQ | ppm | Anthranilic diamide insecticide |
| Chlorfenapyr | 0.500 | 1 | < LOQ | ppm | Pyrazole insecticide |
| Chlorpyrifos | 0.100 | 0.2 | < LOQ | ppm | Organophosphate insecticide |
| Clofentezine | 0.100 | 0.2 | < LOQ | ppm | |
| Cyfluthrin | 0.500 | 1 | < LOQ | ppm | |
| Cypermethrin | 0.500 | 1 | < LOQ | ppm | |
| Daminozide | 0.500 | 1 | < LOQ | ppm | |
| DDVP (Dichlorvos) | 0.500 | 1 | < LOQ | ppm | |
| Diazinon | 0.100 | 0.2 | < LOQ | ppm | Organophosphate insecticide |
| Dimethoate | 0.100 | 0.2 | < LOQ | ppm | |
| Ethoprophos | 0.100 | 0.2 | < LOQ | ppm | |
| Etofenprox | 0.200 | 0.4 | < LOQ | ppm | |
| Etoxazole | 0.100 | 0.2 | < LOQ | ppm | Unclassified miticide |
| Fenoxycarb | 0.100 | 0.2 | < LOQ | ppm | |
| Fenpyroximate | 0.200 | 0.4 | < LOQ | ppm | |
| Fipronil | 0.200 | 0.4 | < LOQ | ppm | Pyrazole insecticide |
| Fonicamid | 0.500 | 1 | < LOQ | ppm | Pyridinecarboxamide insecticide |
| Fludioxonil | 0.200 | 0.4 | < LOQ | ppm | non-systemic fungicide |
| Hexythiazox | 0.500 | 1 | < LOQ | ppm | |
| Imazalil | 0.100 | 0.2 | < LOQ | ppm | Azole fungicide |
| Imidacloprid | 0.200 | 0.4 | < LOQ | ppm | Neonicotinoid insecticide |
| Kresoxim-methyl | 0.200 | 0.4 | < LOQ | ppm | |
| Malathion | 0.100 | 0.2 | < LOQ | ppm | |
| Metalaxyl | 0.100 | 0.2 | < LOQ | ppm | |
| Methiocarb | 0.100 | 0.2 | < LOQ | ppm | Carbamate insecticide |
| Methomyl | 0.200 | 0.4 | < LOQ | ppm | Carbamate insecticide |



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Sample ID: M210346-01

METRC Batch #:

Matrix: Tincture

Date Sampled: NA

Date Accepted: 03/24/21

Batch ID: 2101211.80

Batch Size:

Sampling Method/SOP: Client

Pesticides

Date/Time Extracted: 03/22/21 10:00

Date/Time Analyzed: 3/25/2021 2:29:19AM

Analysis Method/SOP: SOP.T.40.050 / SOP.T.40.051

| Analyte | LOQ | Action Level | Result | Units | Type |
|--------------------|-------|--------------|--------|-------|------------------------------|
| Methyl parathion | 0.100 | 0.2 | < LOQ | ppm | |
| MGK-264 | 0.100 | 0.2 | < LOQ | ppm | |
| Myclobutanil | 0.100 | 0.2 | < LOQ | ppm | Azole fungicide |
| Naled | 0.250 | 0.5 | < LOQ | ppm | |
| Oxamyl | 0.500 | 1 | < LOQ | ppm | Carbamate insecticide |
| Paclobutrazol | 0.200 | 0.4 | < LOQ | ppm | Azole plant growth regulator |
| Permethrins | 0.100 | 0.2 | < LOQ | ppm | |
| Phosmet | 0.100 | 0.2 | < LOQ | ppm | Organophosphate insecticide |
| Piperonyl butoxide | 1.00 | 2 | < LOQ | ppm | |
| Prallethrin | 0.100 | 0.2 | < LOQ | ppm | |
| Propiconazole | 0.200 | 0.4 | < LOQ | ppm | |
| Propoxur | 0.100 | 0.2 | < LOQ | ppm | Carbamate insecticide |
| Pyrethrins | 0.500 | 1 | < LOQ | ppm | |
| Pyridaben | 0.100 | 0.2 | < LOQ | ppm | Unclassified insecticide |
| Spinosad | 0.100 | 0.2 | < LOQ | ppm | Spinosyn insecticide |
| Spiromesifen | 0.100 | 0.2 | < LOQ | ppm | Keto-enol insecticide |
| Spirotetramat | 0.100 | 0.2 | < LOQ | ppm | Keto-enol insecticide |
| Spiroxamine | 0.200 | 0.4 | < LOQ | ppm | Unclassified fungicide |
| Tebuconazole | 0.200 | 0.4 | < LOQ | ppm | |
| Thiacloprid | 0.100 | 0.2 | < LOQ | ppm | |
| Thiamethoxam | 0.100 | 0.2 | < LOQ | ppm | Neonicotinoid insecticide |
| Trifloxystrobin | 0.100 | 0.2 | < LOQ | ppm | Strobin fungicide |

Results above the action level fail Oregon state testing requirements and will be highlighted RED.

LOQ= Limit of Quantitation; PPM= Parts per million; ND= Not detected; NT= Not tested; AC= Above calibration range. PASS/FAIL status based on OAR 333-007.



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Mountain Oil Trading

Info Only

Sample ID: M210346-01

METRC Batch #:

Matrix: Tincture

Date Sampled: NA

Date Accepted: 03/24/21

Batch ID: 2101211.80

Batch Size:

Sampling Method/SOP: Client

Residual Solvents

| Analyte | LOQ | Action Level | Result | Units |
|---------------------|--------|--------------|--------|-------|
| Butanes | 2500 | 5000 | 3 | < LOQ |
| n-Butane | 1250 | 5000 | | ppm |
| iso-Butane | 1250 | 5000 | | ppm |
| Hexanes | 145 | 290 | 4 | < LOQ |
| n-Hexane | 145 | 290 | | ppm |
| 2-Methylpentane | 145 | 290 | | ppm |
| 3-Methylpentane | 145 | 290 | | ppm |
| 2,2-Dimethylbutane | 145 | 290 | | ppm |
| 2,3-Dimethylbutane | 145 | 290 | | ppm |
| Pentanes | 2500 | 5000 | 5 | < LOQ |
| n-Pentane | 833.33 | 5000 | | ppm |
| iso-Pentane | 833.33 | 5000 | | ppm |
| Neopentane | 833.33 | 5000 | | ppm |
| Xylenes | 1085 | 2170 | | < LOQ |
| 1,2-Dimethylbenzene | 271.25 | 2170 | | ppm |
| 1,3-Dimethylbenzene | 271.25 | 2170 | | ppm |
| 1,4-Dimethylbenzene | 271.25 | 2170 | | ppm |
| Xylenes MP | 1085 | 2170 | | ppm |
| Ethyl benzene | 271.25 | NA | | ppm |
| 2-Propanol (IPA) | 2500 | 5000 | | ppm |
| Acetone | 2500 | 5000 | | ppm |
| Acetonitrile | 205 | 410 | | ppm |
| Benzene | 1 | 2 | | ppm |
| Methanol | 1500 | 3000 | | ppm |
| Propane | 2500 | 5000 | | ppm |
| Toluene | 445 | 890 | | ppm |
| Dichloromethane | 300 | 600 | | ppm |
| 1,4-Dioxane | 190 | 380 | | ppm |
| 2-Butanol | 2500 | 5000 | | ppm |
| 2-Ethoxyethanol | 80 | 160 | | ppm |
| Cumene | 35 | 70 | | ppm |
| Cyclohexane | 1940 | 3880 | | ppm |
| Ethyl acetate | 2500 | 5000 | | ppm |
| Ethyl ether | 2500 | 5000 | | ppm |
| Ethylene glycol | 310 | 620 | | ppm |
| Ethylene oxide | 25 | 50 | | ppm |
| Heptane | 2500 | 5000 | | ppm |
| Isopropyl acetate | 2500 | 5000 | | ppm |
| Tetrahydrofuran | 360 | 720 | | ppm |
| Ethanol | 500 | NA | 7 | < LOQ |

Date/Time Extracted: 03/25/21 15:23

Date/Time Analyzed: 03/26/21 11:46

Analysis Method/SOP: SOP.T.40.031

3 - Total butanes are calculated as sum of n-butanes (CAS# 106-97-8) and iso-butane (CAS# 75-28-5)

4 - Total hexanes are calculated as sum of n-hexane (CAS# 110-54-3), 2-methylpentane (CAS# 107-83-5), 3-methylpentane (CAS# 96-14-0), 2,2-dimethylbutane (CAS# 75-83-2), 2,3-dimethylbutane (CAS# 79-29-8)

5 - Total pentanes are calculated as sum of n-pentane (CAS# 109-66-0), iso-pentane (CAS# 78-78-4), and neo-pentane (CAS# 463-82-1)

6 - Total xylenes are calculated as 1,2-dimethylbenzene (CAS# 95-47-6), 1,3-dimethylbenzene (CAS# 106-42-3), and 1-4-dimethylbenzene (CAS# 106-42-3)

7 - Ethanol is not regulated under OAR-333-007-0410.

TIC - Tentatively Identified Compound not regulated under OAR-333-007-0410

Results above the action level fail Oregon state testing requirements and will be highlighted RED. LOQ=Limit of Quantitation; PPM=Parts per million; ND=Not detected; NT=Not tested; AC=Above calibration range. PASS/FAIL status based on OAR 333-007. Analysis performed in conjunction



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Mountain Oil Trading

Info Only

Sample ID: M210346-01

METRC Batch #:

Matrix: Tincture

Date Sampled: NA

Date Accepted: 03/24/21

Batch ID: 2101211.80

Batch Size:

Sampling Method/SOP: Client

Aerobic Plate Count

Date/Time Extracted: 03/29/21 11:48

Analysis Method/SOP: SOP.T.40.046

Date/Time Analyzed: 03/29/21 11:49

Total Colonies: < LOQ **CFU/g**

About Your Aerobic Plate Count (APC) Results

An aerobic plate count is a measure of the amount of bacteria in a sample that is capable of living in an oxygenated environment.

The American Herbal Pharmacopoeia recommends herbal products contain no greater than 100,000 CFU/g of total viable aerobic bacteria. For CO₂ and solvent based extracts, the AHP recommends a limit of no greater than 10,000 CFU/g. LOQ for this assay is 100 CFU/g

Aerobic plate count is commonly applied to finish products, particularly foods. Traditionally manufacturers will monitor products for aerobic bacteria on a routine basis to ensure that the microbial load of a product is not increasing.



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Rational Hemp

Mountain Oil Trading

Info Only

Sample ID: M210346-01

METRC Batch #:

Matrix: Tincture

Date Sampled: NA

Date Accepted: 03/24/21

Batch ID: 2101211.80

Batch Size:

Sampling Method/SOP: Client

Yeast and Mold Enumeration

Date/Time Extracted: 03/31/21 11:45

Analysis Method/SOP: *** DEFAULT SPECIFIC

Date/Time Analyzed: 03/31/21 11:46

Total Yeast and Mold Colonies <LOQ cfu/g

About Your Yeast and Mold Results

Botanical materials often have total yeast and mold counts between 1,500 - 7,500 CFU/g. Products that have undergone exposure to solvents, such as alcohol tinctures or concentrated materials extracted with butane, propane, hexane, carbon dioxide, or other organic solvents will typically feature total yeast and mold counts at 0 CFU/g.

The American Herbal Pharmacopoeia recommends herbal products contain no greater than 10,000 CFU/g of total yeasts and molds. Results above 10,000 CFU/g will be highlighted **Red**. Counts greater than 25,000 CFU/g are designated as "**TNTC**" or "Too numerous to count." LOQ for this assay is 100 CFU/g.

Yeasts vs Molds

Yeasts and molds are both broad types of fungi. Yeasts are unicellular and reproduce by budding, creating a small smooth appearance, whereas molds are multicellular and grow through fungal strands called hyphae, creating a fuzzy appearance often associated with mold.

Yeasts and molds are commonly found on natural products, and not all are harmful. Nevertheless, yeasts and molds, as well as their spores, can cause lung irritation, facilitate allergic reactions, or even present life-threatening conditions for immuno-compromised consumers. For instance, the dark mold, *Aspergillus*, can produce toxic chemical byproducts which can be harmful to human health. *Aspergillus* spores can lodge in small crevices in the lungs and grow, leading to a potentially life-threatening condition called Aspergillosis.

A simple total yeast and mold count can be a great way to monitor for potential health hazards in botanical products and help ensure the safety of consumers.



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Quality Control

Batch: M21C069 - SOP.T.30.060 Pesticide Prep

| Blank(M21C069-BLK1) | | | Extracted: 03/22/21 10:00 | | Analyzed: 03/24/21 17:17 | | |
|----------------------------|---------------|-------------|----------------------------------|--------------------|---------------------------------|-------------|------------------------|
| Analyte | Result | LOQ | Recovery Limits | Analyte | Result | LOQ | Recovery Limits |
| Methyl parathion | < LOQ | 0.100 (ppm) | < LOQ | MGK-264 | < LOQ | 0.100 (ppm) | < LOQ |
| Chlorfenapyr | < LOQ | 0.500 (ppm) | < LOQ | Cyfluthrin | < LOQ | 0.500 (ppm) | < LOQ |
| Cypermethrin | < LOQ | 0.500 (ppm) | < LOQ | Abamectin | < LOQ | 0.250 (ppm) | < LOQ |
| Acephate | < LOQ | 0.200 (ppm) | < LOQ | Acequinocyl | < LOQ | 1.00 (ppm) | < LOQ |
| Acetamiprid | < LOQ | 0.100 (ppm) | < LOQ | Aldicarb | < LOQ | 0.200 (ppm) | < LOQ |
| Azoxystrobin | < LOQ | 0.100 (ppm) | < LOQ | Bifenazate | < LOQ | 0.100 (ppm) | < LOQ |
| Bifenthrin | < LOQ | 0.100 (ppm) | < LOQ | Boscalid | < LOQ | 0.200 (ppm) | < LOQ |
| Carbaryl | < LOQ | 0.100 (ppm) | < LOQ | Carbofuran | < LOQ | 0.100 (ppm) | < LOQ |
| Chlorantraniliprole | < LOQ | 0.100 (ppm) | < LOQ | Chlorpyrifos | < LOQ | 0.100 (ppm) | < LOQ |
| Clofentezine | < LOQ | 0.100 (ppm) | < LOQ | Daminozide | < LOQ | 0.500 (ppm) | < LOQ |
| DDVP (Dichlorvos) | < LOQ | 0.500 (ppm) | < LOQ | Diazinon | < LOQ | 0.100 (ppm) | < LOQ |
| Dimethoate | < LOQ | 0.100 (ppm) | < LOQ | Ethoprophos | < LOQ | 0.100 (ppm) | < LOQ |
| Etofenprox | < LOQ | 0.200 (ppm) | < LOQ | Etoxazole | < LOQ | 0.100 (ppm) | < LOQ |
| Fenoxycarb | < LOQ | 0.100 (ppm) | < LOQ | Fenpyroximate | < LOQ | 0.200 (ppm) | < LOQ |
| Fipronil | < LOQ | 0.200 (ppm) | < LOQ | Flonicamid | < LOQ | 0.500 (ppm) | < LOQ |
| Fludioxonil | < LOQ | 0.200 (ppm) | < LOQ | Hexythiazox | < LOQ | 0.500 (ppm) | < LOQ |
| Imazalil | < LOQ | 0.100 (ppm) | < LOQ | Imidacloprid | < LOQ | 0.200 (ppm) | < LOQ |
| Kresoxim-methyl | < LOQ | 0.200 (ppm) | < LOQ | Malathion | < LOQ | 0.100 (ppm) | < LOQ |
| Metalaxyl | < LOQ | 0.100 (ppm) | < LOQ | Methiocarb | < LOQ | 0.100 (ppm) | < LOQ |
| Methomyl | < LOQ | 0.200 (ppm) | < LOQ | Myclobutanil | < LOQ | 0.100 (ppm) | < LOQ |
| Naled | < LOQ | 0.250 (ppm) | < LOQ | Oxamyl | < LOQ | 0.500 (ppm) | < LOQ |
| Paclobutrazol | < LOQ | 0.200 (ppm) | < LOQ | Permethrins | < LOQ | 0.100 (ppm) | < LOQ |
| Phosmet | < LOQ | 0.100 (ppm) | < LOQ | Piperonyl butoxide | < LOQ | 1.00 (ppm) | < LOQ |
| Prallethrin | < LOQ | 0.100 (ppm) | < LOQ | Propiconazole | < LOQ | 0.200 (ppm) | < LOQ |
| Propoxur | < LOQ | 0.100 (ppm) | < LOQ | Pyridaben | < LOQ | 0.100 (ppm) | < LOQ |
| Pyrethrins | < LOQ | 0.500 (ppm) | < LOQ | Spinosad | < LOQ | 0.100 (ppm) | < LOQ |
| Spiromesifen | < LOQ | 0.100 (ppm) | < LOQ | Spirotetramat | < LOQ | 0.100 (ppm) | < LOQ |
| Spiroxamine | < LOQ | 0.200 (ppm) | < LOQ | Tebuconazole | < LOQ | 0.200 (ppm) | < LOQ |
| Thiacloprid | < LOQ | 0.100 (ppm) | < LOQ | Thiamethoxam | < LOQ | 0.100 (ppm) | < LOQ |
| Trifloxystrobin | < LOQ | 0.100 (ppm) | < LOQ | | | | |

| LCS(M21C069-BS1) | | | Extracted: 03/22/21 10:00 | | Analyzed: 03/24/21 17:44 | | |
|-------------------------|-------------------|-------------|----------------------------------|----------------|---------------------------------|-------------|------------------------|
| Analyte | % Recovery | LOQ | Recovery Limits | Analyte | % Recovery | LOQ | Recovery Limits |
| Methyl parathion | 110 | 0.100 (ppm) | 50-150 | MGK-264 | 128 | 0.100 (ppm) | 50-150 |
| Chlorfenapyr | 128 | 0.500 (ppm) | 50-150 | Cyfluthrin | 113 | 0.500 (ppm) | 50-150 |
| Cypermethrin | 121 | 0.500 (ppm) | 50-150 | Abamectin | 66.6 | 0.250 (ppm) | 50-150 |
| Acephate | 81.6 | 0.200 (ppm) | 50-150 | Acequinocyl | 85.2 | 1.00 (ppm) | 50-150 |



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Quality Control

Batch: M21C069 - SOP.T.30.060 Pesticide Prep (Continued)

| LCS(M21C069-BS1) | | | Extracted: 03/22/21 10:00 | | Analyzed: 03/24/21 17:50 | | |
|---------------------|------------|-------------|---------------------------|--------------------|--------------------------|-------------|-----------------|
| Analyte | % Recovery | LOQ | Recovery Limits | Analyte | % Recovery | LOQ | Recovery Limits |
| Acetamiprid | 120 | 0.100 (ppm) | 50-150 | Aldicarb | 64.1 | 0.200 (ppm) | 50-150 |
| Azoxystrobin | 86.1 | 0.100 (ppm) | 50-150 | Bifenazate | 74.2 | 0.100 (ppm) | 50-150 |
| Bifenthrin | 73.1 | 0.100 (ppm) | 50-150 | Boscalid | 97.8 | 0.200 (ppm) | 50-150 |
| Carbaryl | 113 | 0.100 (ppm) | 50-150 | Carbofuran | 94.2 | 0.100 (ppm) | 50-150 |
| Chlorantraniliprole | 72.7 | 0.100 (ppm) | 50-150 | Chlorpyrifos | 77.1 | 0.100 (ppm) | 50-150 |
| Clofentezine | 104 | 0.100 (ppm) | 50-150 | Daminozide | 151 | 0.500 (ppm) | 50-150 |
| DDVP (Dichlorvos) | 77.5 | 0.500 (ppm) | 50-150 | Diazinon | 84.7 | 0.100 (ppm) | 50-150 |
| Dimethoate | 95.1 | 0.100 (ppm) | 50-150 | Ethoprophos | 104 | 0.100 (ppm) | 50-150 |
| Etofenprox | 89.7 | 0.200 (ppm) | 50-150 | Etoxazole | 73.6 | 0.100 (ppm) | 50-150 |
| Fenoxycarb | 79.2 | 0.100 (ppm) | 50-150 | Fenpyroximate | 71.1 | 0.200 (ppm) | 50-150 |
| Fipronil | 88.6 | 0.200 (ppm) | 50-150 | Flonicamid | 81.0 | 0.500 (ppm) | 50-150 |
| Fludioxonil | 99.9 | 0.200 (ppm) | 50-150 | Hexythiazox | 70.5 | 0.500 (ppm) | 50-150 |
| Imazalil | 75.8 | 0.100 (ppm) | 50-150 | Imidacloprid | 88.8 | 0.200 (ppm) | 50-150 |
| Kresoxim-methyl | 107 | 0.200 (ppm) | 50-150 | Malathion | 94.4 | 0.100 (ppm) | 50-150 |
| Metalaxyl | 90.3 | 0.100 (ppm) | 50-150 | Methiocarb | 87.4 | 0.100 (ppm) | 50-150 |
| Methomyl | 84.2 | 0.200 (ppm) | 50-150 | Myclobutanil | 76.4 | 0.100 (ppm) | 50-150 |
| Naled | 123 | 0.250 (ppm) | 50-150 | Oxamyl | 85.6 | 0.500 (ppm) | 50-150 |
| Paclobutrazol | 87.7 | 0.200 (ppm) | 50-150 | Permethrins | | 0.100 (ppm) | 50-150 |
| Phosmet | 97.0 | 0.100 (ppm) | 50-150 | Piperonyl butoxide | 74.4 | 1.00 (ppm) | 50-150 |
| Prallethrin | 78.4 | 0.100 (ppm) | 50-150 | Propiconazole | 69.0 | 0.200 (ppm) | 50-150 |
| Propoxur | 93.4 | 0.100 (ppm) | 50-150 | Pyridaben | 64.3 | 0.100 (ppm) | 50-150 |
| Pyrethrins | 78.9 | 0.500 (ppm) | 50-150 | Spinosad | 72.7 | 0.100 (ppm) | 50-150 |
| Spiromesifen | 69.6 | 0.100 (ppm) | 50-150 | Spirotetramat | 85.6 | 0.100 (ppm) | 50-150 |
| Spiroxamine | 86.9 | 0.200 (ppm) | 50-150 | Tebuconazole | 80.0 | 0.200 (ppm) | 50-150 |
| Thiacloprid | 60.8 | 0.100 (ppm) | 50-150 | Thiamethoxam | 104 | 0.100 (ppm) | 50-150 |
| Trifloxystrobin | 92.6 | 0.100 (ppm) | 50-150 | | | | |

Batch: M21C081 - SOP.T.30.050 Prep for Cannabinoids

| Blank(M21C081-BLK1) | | | Extracted: 03/24/21 12:15 | | Analyzed: 03/25/21 02:20 | | |
|---------------------|--------|-----------|---------------------------|-------------|--------------------------|-----------|-----------------|
| Analyte | Result | LOQ | Recovery Limits | Analyte | Result | LOQ | Recovery Limits |
| THCA | < LOQ | 0.040 (%) | < LOQ | delta 9-THC | < LOQ | 0.040 (%) | < LOQ |
| delta 8-THC | < LOQ | 0.040 (%) | < LOQ | THCV-A | < LOQ | 0.040 (%) | < LOQ |
| THCV | < LOQ | 0.040 (%) | < LOQ | CBDA | < LOQ | 0.040 (%) | < LOQ |
| CBD | < LOQ | 0.040 (%) | < LOQ | CBDV-A | < LOQ | 0.040 (%) | < LOQ |
| CBDV | < LOQ | 0.040 (%) | < LOQ | CBG | < LOQ | 0.040 (%) | < LOQ |
| CBGA | < LOQ | 0.040 (%) | < LOQ | CBN | < LOQ | 0.040 (%) | < LOQ |
| CBCA | < LOQ | 0.040 (%) | < LOQ | CBC | < LOQ | 0.040 (%) | < LOQ |



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Quality Control

Batch: M21C081 - SOP.T.30.050 Prep for Cannabinoids (Continued)

| Blank(M21C081-BLK1) | | | Extracted: 03/24/21 12:15 | | Analyzed: 03/25/21 02:20 | | |
|----------------------------|--------|-----------|---------------------------|---------|--------------------------|-----|-----------------|
| Analyte | Result | LOQ | Recovery Limits | Analyte | Result | LOQ | Recovery Limits |
| Sum of tested Cannabinoid: | < LOQ | 0.040 (%) | < LOQ | | | | |

| LCS(M21C081-BS1) | | | Extracted: 03/24/21 12:15 | | Analyzed: 03/25/21 02:37 | | |
|------------------|------------|-----|---------------------------|-------------|--------------------------|-----|-----------------|
| Analyte | % Recovery | LOQ | Recovery Limits | Analyte | % Recovery | LOQ | Recovery Limits |
| THCA | 94.6 | (%) | 70-130 | delta 9-THC | 98.0 | (%) | 70-130 |
| THCV | 107 | (%) | 70-130 | CBDA | 98.5 | (%) | 70-130 |
| CBD | 98.0 | (%) | 70-130 | CBG | 96.5 | (%) | 70-130 |
| CBGA | 98.6 | (%) | 70-130 | CBN | 107 | (%) | 70-130 |
| CBCA | 103 | (%) | 70-130 | CBC | 88.5 | (%) | 70-130 |

Batch: M21C082 - SOP.T.40.092 PDX Terpenoid Analysis via GC-MS

| Blank(M21C082-BLK1) | | | Extracted: 03/24/21 12:39 | | Analyzed: 03/24/21 17:02 | | |
|---------------------|--------|--------------|---------------------------|----------------------|--------------------------|--------------|-----------------|
| Analyte | Result | LOQ | Recovery Limits | Analyte | Result | LOQ | Recovery Limits |
| alpha-Pinene | < LOQ | 0.200 (mg/g) | < LOQ | beta-Pinene | < LOQ | 0.200 (mg/g) | < LOQ |
| Camphene | < LOQ | 0.200 (mg/g) | < LOQ | Sabinene | < LOQ | 0.200 (mg/g) | < LOQ |
| Sabinene hydrate | < LOQ | 0.200 (mg/g) | < LOQ | beta-Myrcene | < LOQ | 0.200 (mg/g) | < LOQ |
| p-Mentha-1,5-diene | < LOQ | 0.200 (mg/g) | < LOQ | (+)-3-Carene | < LOQ | 0.200 (mg/g) | < LOQ |
| alpha-Terpinene | < LOQ | 0.200 (mg/g) | < LOQ | gamma-Terpinene | < LOQ | 0.200 (mg/g) | < LOQ |
| Limonene | < LOQ | 0.200 (mg/g) | < LOQ | Eucalyptol | < LOQ | 0.200 (mg/g) | < LOQ |
| Guaiol | < LOQ | 0.200 (mg/g) | < LOQ | Terpinolene | < LOQ | 0.200 (mg/g) | < LOQ |
| Linalool | < LOQ | 0.200 (mg/g) | < LOQ | Camphor | < LOQ | 0.200 (mg/g) | < LOQ |
| (+)-Camphor | < LOQ | 0.200 (mg/g) | < LOQ | (-)-Camphor | < LOQ | 0.200 (mg/g) | < LOQ |
| Isopulegol | < LOQ | 0.200 (mg/g) | < LOQ | Isoborneol | < LOQ | 0.200 (mg/g) | < LOQ |
| Borneol | < LOQ | 0.200 (mg/g) | < LOQ | Hexahydrothymol | < LOQ | 0.200 (mg/g) | < LOQ |
| Geraniol | < LOQ | 0.200 (mg/g) | < LOQ | (+)-Pulegone | < LOQ | 0.200 (mg/g) | < LOQ |
| Nerol | < LOQ | 0.200 (mg/g) | < LOQ | cis-Nerolidol | < LOQ | 0.200 (mg/g) | < LOQ |
| trans-Nerolidol | < LOQ | 0.200 (mg/g) | < LOQ | Geranyl acetate | < LOQ | 0.200 (mg/g) | < LOQ |
| alpha-Cedrene | < LOQ | 0.200 (mg/g) | < LOQ | trans-Caryophyllene | < LOQ | 0.200 (mg/g) | < LOQ |
| Caryophyllene Oxide | < LOQ | 0.200 (mg/g) | < LOQ | alpha-Humulene | < LOQ | 0.200 (mg/g) | < LOQ |
| Valencene | < LOQ | 0.200 (mg/g) | < LOQ | alpha-Farnesene | < LOQ | 0.200 (mg/g) | < LOQ |
| beta-Farnesene | < LOQ | 0.200 (mg/g) | < LOQ | Cedrol | < LOQ | 0.200 (mg/g) | < LOQ |
| alpha-Bisabolol | < LOQ | 0.200 (mg/g) | < LOQ | Fenchone | < LOQ | 0.200 (mg/g) | < LOQ |
| Fenchyl Alcohol | < LOQ | 0.200 (mg/g) | < LOQ | trans, beta- Ocimene | < LOQ | 0.200 (mg/g) | < LOQ |
| beta, cis- Ocimene | < LOQ | 0.200 (mg/g) | < LOQ | Terpineol | < LOQ | 0.200 (mg/g) | < LOQ |

Batch: M21C090 - SOP.T.40.031 Solvents

| Blank(M21C090-BLK1) | | | Extracted: 03/25/21 15:23 | | Analyzed: 03/26/21 08:59 | | |
|---------------------|--------|-----|---------------------------|---------|--------------------------|-----|-----------------|
| Analyte | Result | LOQ | Recovery Limits | Analyte | Result | LOQ | Recovery Limits |



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Quality Control

Batch: M21C090 - SOP.T.40.031 Solvents (Continued)

| Blank(M21C090-BLK1) | | | | Extracted: 03/25/21 15:23 | Analyzed: 03/26/21 08:59 | | | |
|---------------------|--------|--------------|-----------------|---------------------------|--------------------------|--------------|-----------------|--|
| Analyte | Result | LOQ | Recovery Limits | Analyte | Result | LOQ | Recovery Limits | |
| Butanes | < LOQ | 2500 (ppm) | < LOQ | n-Butane | < LOQ | 1250 (ppm) | < LOQ | |
| iso-Butane | < LOQ | 1250 (ppm) | < LOQ | Hexanes | < LOQ | 145 (ppm) | < LOQ | |
| n-Hexane | < LOQ | 145 (ppm) | < LOQ | 2-Methylpentane | < LOQ | 145 (ppm) | < LOQ | |
| 3-Methylpentane | < LOQ | 145 (ppm) | < LOQ | 2,2-Dimethylbutane | < LOQ | 145 (ppm) | < LOQ | |
| 2,3-Dimethylbutane | < LOQ | 145 (ppm) | < LOQ | Pentanes | < LOQ | 2500 (ppm) | < LOQ | |
| n-Pentane | < LOQ | 833.33 (ppm) | < LOQ | iso-Pentane | < LOQ | 833.33 (ppm) | < LOQ | |
| Neopentane | < LOQ | 833.33 (ppm) | < LOQ | Xylenes | < LOQ | 1085 (ppm) | < LOQ | |
| 1,2-Dimethylbenzene | < LOQ | 271.25 (ppm) | < LOQ | 1,3-Dimethylbenzene | < LOQ | 271.25 (ppm) | < LOQ | |
| 1,4-Dimethylbenzene | < LOQ | 271.25 (ppm) | < LOQ | Xylenes MP | < LOQ | 1085 (ppm) | < LOQ | |
| Ethyl benzene | < LOQ | 271.25 (ppm) | < LOQ | 2-Propanol (IPA) | < LOQ | 2500 (ppm) | < LOQ | |
| Acetone | < LOQ | 2500 (ppm) | < LOQ | Acetonitrile | < LOQ | 205 (ppm) | < LOQ | |
| Benzene | < LOQ | 1 (ppm) | < LOQ | Methanol | < LOQ | 1500 (ppm) | < LOQ | |
| Propane | < LOQ | 2500 (ppm) | < LOQ | Toluene | < LOQ | 445 (ppm) | < LOQ | |
| Dichloromethane | < LOQ | 300 (ppm) | < LOQ | 1,4-Dioxane | < LOQ | 190 (ppm) | < LOQ | |
| 2-Butanol | < LOQ | 2500 (ppm) | < LOQ | 2-Ethoxyethanol | < LOQ | 80 (ppm) | < LOQ | |
| Cumene | < LOQ | 35 (ppm) | < LOQ | Cyclohexane | < LOQ | 1940 (ppm) | < LOQ | |
| Ethyl acetate | < LOQ | 2500 (ppm) | < LOQ | Ethyl ether | < LOQ | 2500 (ppm) | < LOQ | |
| Ethylene glycol | < LOQ | 310 (ppm) | < LOQ | Ethylene oxide | < LOQ | 25 (ppm) | < LOQ | |
| Heptane | < LOQ | 2500 (ppm) | < LOQ | Isopropyl acetate | < LOQ | 2500 (ppm) | < LOQ | |
| Tetrahydrofuran | < LOQ | 360 (ppm) | < LOQ | Ethanol | < LOQ | 500 (ppm) | < LOQ | |

Batch: M21C100 - SOP.T.40.046 Aerobic Bacteria Count

| Blank(M21C100-BLK1) | | | | Extracted: 03/29/21 11:48 | Analyzed: 03/29/21 11:49 | | | |
|---------------------|--------|--------------|-----------------|---------------------------|--------------------------|-----|-----------------|--|
| Analyte | Result | LOQ | Recovery Limits | Analyte | Result | LOQ | Recovery Limits | |
| Aerobic Bacteria | < LOQ | 1.00 (cfu/g) | < LOQ | | | | | |

Batch: M21C111 - SOP.T.40.040 Yeast/Mold

| Blank(M21C111-BLK1) | | | | Extracted: 03/31/21 11:45 | Analyzed: 03/31/21 11:46 | | | |
|-----------------------------|--------|---------|-----------------|---------------------------|--------------------------|-----|-----------------|--|
| Analyte | Result | LOQ | Recovery Limits | Analyte | Result | LOQ | Recovery Limits | |
| Total Yeast and Mold Coloni | 0.00 | (cfu/g) | < LOQ | | | | | |



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