

CERTIFICATE OF ANALYSIS



JuniperAnalytics
INTEGRITY AND ACCURACY IN EVERY STEP

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| | |
|---------------------|---|
| Client Name: | Global Cannabinoids |
| Contact Info: | Frank Mulligan |
| Sample Type: | Crystal Resistant Distillate (CO2) |
| External Batch ID: | GC-BSCRD-5036 |
| Harvest/Prod. Date: | 6/12/2019 |
| Sample ID: | BSCRD-5036 |
| METRC ID: | Hemp |
| Juniper Batch #: | 19JA1598.03_A - 19JA1598.03_B Composite |
| Intake Date: | 6/10/2019 |



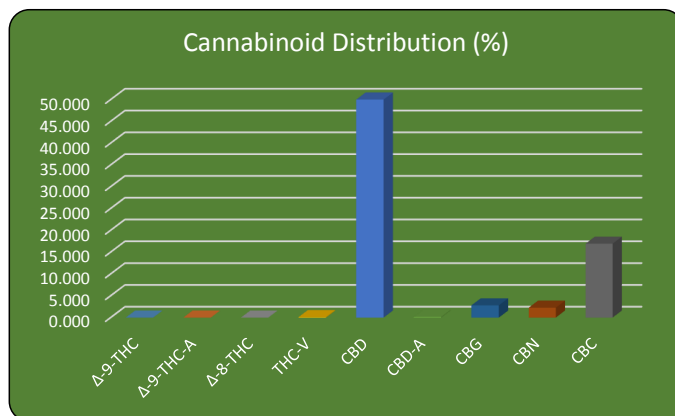
Potency Analysis (Oregon Compliance Standard OAR 333-007-0430)

ANALYSIS DATE: See Individual Results

Instrument: HPLC/DAD

Method: JA-Potency-Proprietary

| Compound | Weight (%) | Concentration (mg/g) | LOQ (mg/g) |
|-----------|------------|----------------------|------------|
| Δ-9-THC | <LOQ | <LOQ | 1.00 |
| Δ-9-THC-A | <LOQ | <LOQ | 1.00 |
| Δ-8-THC | <LOQ | <LOQ | 1.00 |
| THC-V | 0.104 | 1.04 | 1.00 |
| CBD | 49.998 | 499.98 | 1.00 |
| CBD-A | 0.150 | 1.50 | 1.00 |
| CBG | 2.787 | 27.87 | 1.00 |
| CBN | 2.261 | 22.61 | 1.00 |
| CBC | 16.918 | 169.18 | 1.00 |



| TOTAL THC/CBD | Weight (%) | Conc (mg/g) | RPD |
|---|------------|-------------|-----|
| % THC Total = | N/A | N/A | N/A |
| %THC _{Total} = (THC-A * 0.877) + Δ9THC | | | |
| % CBD Total = | 50.130 | 501.30 | |
| %CBD _{Total} = (CBD-A * 0.877) + CBD | | | |

Residual Solvent Analysis (Oregon Compliance Standard OAR 333-007-0410)

ANALYSIS DATE: See Individual Results

Instrument: GC/MS

Method: USP 467 - Modified

| Solvent | Result (ppm) | RPD |
|-------------------|--------------|-----|
| 1,4-Dioxane | <LOQ | N/A |
| 2-Butanol | <LOQ | N/A |
| 2-Ethoxyethanol | <LOQ | N/A |
| 2-Propanol (IPA) | <LOQ | N/A |
| Acetone | <LOQ | N/A |
| Acetonitrile | <LOQ | N/A |
| Benzene | <LOQ | N/A |
| Cumene | <LOQ | N/A |
| Cyclohexane | <LOQ | N/A |
| Dichloromethane | <LOQ | N/A |
| Ethyl acetate | <LOQ | N/A |
| Ethyl ether | <LOQ | N/A |
| Ethylene glycol | <LOQ | N/A |
| Ethylene oxide | <LOQ | N/A |
| Heptane | <LOQ | N/A |
| Isopropyl acetate | <LOQ | N/A |
| Methanol | <LOQ | N/A |
| Propane | <LOQ | N/A |
| Tetrahydrofuran | <LOQ | N/A |
| Toluene | <LOQ | N/A |

| Solvent | Result (ppm) | RPD |
|---------------------------------------|--------------|-----|
| Pentanes; | <LOQ | N/A |
| -n-pentane | <LOQ | ** |
| -iso-pentane | <LOQ | ** |
| -neo-pentane | <LOQ | ** |
| Butanes; | <LOQ | N/A |
| -n-butane | <LOQ | ** |
| -iso-butane | <LOQ | ** |
| Hexanes; | <LOQ | N/A |
| -n-hexane | <LOQ | ** |
| -2-methylpentane | <LOQ | ** |
| -3-methylpentane | <LOQ | ** |
| -2,2-dimethylbutane | <LOQ | ** |
| -2,3-dimethylbutane | <LOQ | ** |
| Xylenes; | <LOQ | N/A |
| -1,2-dimethylbenzene | <LOQ | ** |
| -1,3-dimethylbenzene | <LOQ | ** |
| -1,4-dimethylbenzene | <LOQ | ** |
| -Ethyl benzene | <LOQ | ** |
| **RPD calculated for combined results | | |

Residual Solvents **PASS**

Tentatively Identified Compounds: None detected

<LOQ - Less than the Limit of Quantification

***Largest hit reported to appropriate governing body; RPD only calculated on samples where the average result is above 50% of the action level.

Approval

Report Date: 6/12/2019

QA Review



Juniper Batch #: 19JA1598.03_A - 19JA1598.03_B Composite
 Intake Date: 6/12/2019

Pesticide Analysis (Oregon Compliance Standard OAR 333-008-1190)

| ANALYSIS DATE: See Individual Results | | | Instrument: LC/MS/MS | | Method: AOAC 2007.1 ^{-modified} | |
|---------------------------------------|--------------|--------------------------|----------------------|--------------|--|--|
| Pesticide | Result (ppm) | Action Level / LOQ (ppm) | Pesticide | Result (ppm) | Action Level / LOQ (ppm) | |
| Abamectin | <LOQ | 0.5 / 0.25 | Imazalil | <LOQ | 0.2 / 0.10 | |
| Acephate | <LOQ | 0.4 / 0.20 | Imidacloprid | <LOQ | 0.4 / 0.20 | |
| Acequinocyl | <LOQ | 2.0 / 1.00 | Kresoxim-methyl | <LOQ | 0.4 / 0.20 | |
| Acetamiprid | <LOQ | 0.2 / 0.10 | Malathion | <LOQ | 0.2 / 0.10 | |
| Aldicarb | <LOQ | 0.4 / 0.20 | Metalaxyl | <LOQ | 0.2 / 0.10 | |
| Azoxystrobin | <LOQ | 0.2 / 0.10 | Methiocarb | <LOQ | 0.2 / 0.10 | |
| Bifenazate | <LOQ | 0.2 / 0.10 | Methomyl | <LOQ | 0.4 / 0.20 | |
| Bifenthrin | <LOQ | 0.2 / 0.10 | Methyl Parathion | <LOQ | 0.2 / 0.10 | |
| Boscalid | <LOQ | 0.4 / 0.20 | MGK-264 | <LOQ | 0.2 / 0.10 | |
| Carbaryl | <LOQ | 0.2 / 0.10 | Myclobutanil | <LOQ | 0.2 / 0.10 | |
| Carbofuran | <LOQ | 0.2 / 0.10 | Naled | <LOQ | 0.5 / 0.25 | |
| Chlorantraniliprole | <LOQ | 0.2 / 0.10 | Oxamyl | <LOQ | 1.0 / 0.50 | |
| Chlorfenapyr | <LOQ | 1.0 / 0.50 | Paclbutrazol | <LOQ | 0.4 / 0.20 | |
| Chlorpyrifos | <LOQ | 0.2 / 0.10 | Permethrins | <LOQ | 0.2 / 0.10 | |
| Clofentezine | <LOQ | 0.2 / 0.10 | Phosmet | <LOQ | 0.2 / 0.10 | |
| Cyfluthrin | <LOQ | 1.0 / 0.50 | Piperonyl butoxide | <LOQ | 2.0 / 1.00 | |
| Cypermethrin | <LOQ | 1.0 / 0.50 | Prallethrin | <LOQ | 0.2 / 0.10 | |
| Daminozide | <LOQ | 1.0 / 0.50 | Propiconazole | <LOQ | 0.4 / 0.20 | |
| DDVP (Dichlorvos) | <LOQ | 1.0 / 0.50 | Propoxur | <LOQ | 0.2 / 0.10 | |
| Diazinon | <LOQ | 0.2 / 0.10 | Pyrethrins | <LOQ | 1.0 / 0.50 | |
| Dimethoate | <LOQ | 0.2 / 0.10 | Pyridaben | <LOQ | 0.2 / 0.10 | |
| Ethoprophos | <LOQ | 0.2 / 0.10 | Spinosad | <LOQ | 0.2 / 0.10 | |
| Etofenprox | <LOQ | 0.4 / 0.20 | Spiromesifen | <LOQ | 0.2 / 0.10 | |
| Etoxazole | <LOQ | 0.2 / 0.10 | Spirotetramat | <LOQ | 0.2 / 0.10 | |
| Fenoxycarb | <LOQ | 0.2 / 0.10 | Spiroxamine | <LOQ | 0.4 / 0.20 | |
| Fenproximate | <LOQ | 0.4 / 0.20 | Tebuconazole | <LOQ | 0.4 / 0.20 | |
| Fipronil | <LOQ | 0.4 / 0.20 | Thiacloprid | <LOQ | 0.2 / 0.10 | |
| Flonicamid | <LOQ | 1.0 / 0.50 | Thiamethoxam | <LOQ | 0.2 / 0.10 | |
| Fludioxonil | <LOQ | 0.4 / 0.20 | Trifloxystrobin | <LOQ | 0.2 / 0.10 | |
| Hexythiazox | <LOQ | 1.0 / 0.50 | | | | |
| Pesticide Screen | PASS | | | | | |

LOQ= Limit of Quantification

Microbiological Contaminants (Oregon Compliance Standard OAR 333-007-0390)

| ANALYSIS DATE: Not Tested | | | |
|----------------------------|--------------|------------|----------|
| Microbiological screening | Colony count | CFU/g | Results: |
| Total coliforms | Not tested | Not tested | N/A |
| Escherichia coli (E. coli) | Not tested | Not tested | N/A |



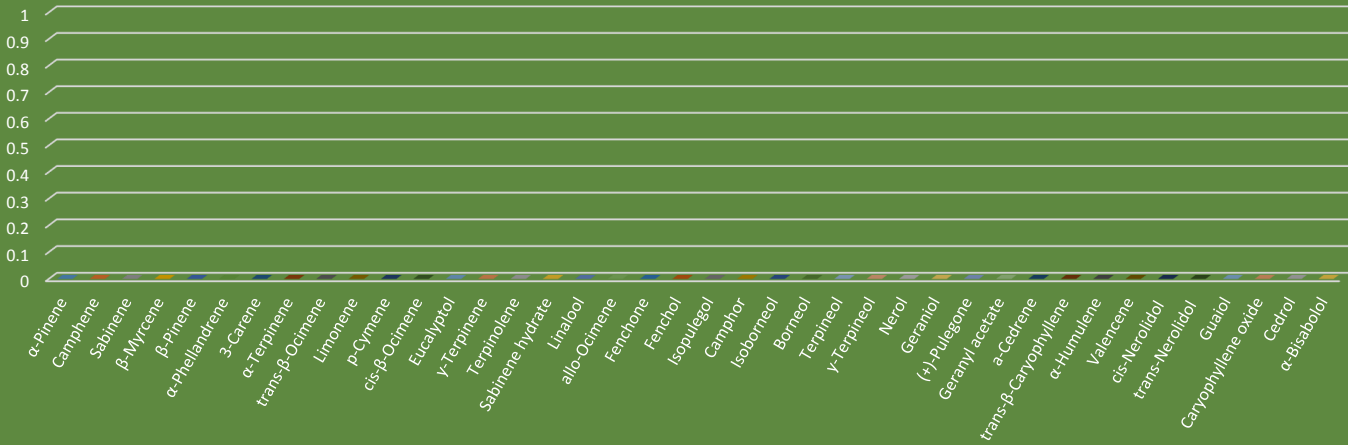
Juniper Batch #: 19JA1598.03_A - 19JA1598.03_B Composite

Intake Date: 6/12/2019

Terpene Profile

| ANALYSIS DATE: Not Tested | | | Instrument: GC/MS | | Method: JA-Terpene-Proprietary | |
|---------------------------|------|---|-----------------------|------|--------------------------------|--|
| Compound | µg/g | % | Compound | µg/g | % | |
| α-Pinene | | | Isopulegol | | | |
| Camphene | | | Camphor | | | |
| Sabinene | | | Isoborneol | | | |
| β-Myrcene | | | Borneol | | | |
| β-Pinene | | | Terpineol | | | |
| α-Phellandrene | | | γ-Terpineol | | | |
| 3-Carene | | | Nerol | | | |
| α-Terpinene | | | Geraniol | | | |
| trans-β-Ocimene | | | (+)-Pulegone | | | |
| Limonene | | | Geranyl acetate | | | |
| p-Cymene | | | a-Cedrene | | | |
| cis-β-Ocimene | | | trans-β-Caryophyllene | | | |
| Eucalyptol | | | α-Humulene | | | |
| γ-Terpinene | | | Valencene | | | |
| Terpinolene | | | cis-Nerolidol | | | |
| Sabinene hydrate | | | trans-Nerolidol | | | |
| Linalool | | | Guaiol | | | |
| allo-Ocimene | | | Caryophyllene oxide | | | |
| Fenchone | | | Cedrol | | | |
| Fenchol | | | α-Bisabolol | | | |
| | | | TOTAL | | | |

Terpene Levels (µg/g)



Batch QC WorkGroup ID:

Potency See Individual Results

Residual Solvents See Individual Results

Pesticides See Individual Results

Disclaimer

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