**Product identity:** 01LIRVAP200\_PB

### Client/Metrc ID: .

**Laboratory ID:** 23-000691-0002

**Potency:**

# Summary

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Analyte** | **Result (%)** | CBD | CBG-A | CBD-Total | 39.3% |
| CBD | 30.8 | CBC | CBC-A |
| CBC | 21.8 | CBD-A |  |  | |
| THC-Total | 0.376% |
| CBD-A | 9.70 | CBG |  |
| CBG CBDV | 8.74  2.42 | CBDV CBT  CBE |  |
| (Reported in percent of total sample) | |
| CBT | 1.60 | CBN |  |  | |
| CBE | 1.25 | THCV |  |  | |
| CBN | 1.04 | ∆9-THC |  |  | |
| THCV | 0.225 | THC-A |  |  | |
| -THC | 0.214 |  |  |  | |
| THC-A | 0.185 |  |  |  | |
| CBG-A | 0.184 |  |  |  | |
| CBC-A | 0.181 |  |  |  | |

##### 825 NW 16th Ave Portland Oregon 97209

United States of America (USA)

**Product identity:** 01LIRVAP200\_PB

**Client/Metrc ID:** .

**Sample Date:**

**Laboratory ID: Evidence of Cooling: Temp:**

**Relinquished by:**

23-000691-0002

No 20 °C

ramos

# Sample Results

Potency

**Method:** J AOAC 2015 V98-6 (mod)þ **Units** % **Batch:** 2300604 **Analyze:** 1/19/23 1:09:00 AM

**Analyte As**

**Received**

**Dry**

**weight**

**LOQ Notes**

 CBD

 THC-A

CBC CBC-A

CBC-Total CBD

|  |  |  |  |
| --- | --- | --- | --- |
| CBD-A | 9.70 | 0.0742 | CBE |
| CBD-Total | 39.3 | 0.808 | CBN |
| CBDV | 2.42 | 0.0742 | THCV |
| CBDV-A | < LOQ | 0.0742 | ∆9-THC |
| CBDV-Total | 2.42 | 0.139 |  |
| CBE | 1.25 | 0.0742 |  |
| CBG | 8.74 | 0.0742 |  |
| CBG-A | 0.184 | 0.0742 |  |
| CBG-Total | 8.90 | 0.139 |  |
| CBL | < LOQ | 0.0742 |  |
| CBL-A | < LOQ | 0.0742 |  |
| CBL-Total | < LOQ | 0.139 |  |
| CBN | 1.04 | 0.0742 |  |
| CBT | 1.60 | 0.0742 |  |
| -THC-9R | < LOQ | 0.0742 |  |
| -THC | < LOQ | 0.0742 |  |
| -THCV | < LOQ | 0.0742 |  |
| -THC | 0.214 | 0.0742 |  |
| exo-THC | < LOQ | 0.0742 |  |
| THC-A | 0.185 | 0.0742 |  |
| THC-Total | 0.376 | 0.139 |  |
| THCV | 0.225 | 0.0742 |  |
| THCV-A | < LOQ | 0.0742 |  |
| THCV-Total | 0.225 | 0.139 |  |
| **Total Cannabinoids** | 78.3 |  |  |

21.8

0.181

22.0

30.8

0.0742

0.0742

0.139

0.742

 CBC  CBD-A  CBG  CBDV  CBT

 CBG-A  CBC-A

#### 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.

þ = ISO/IEC 17025:2017 accredited method.

#### Units of Measure

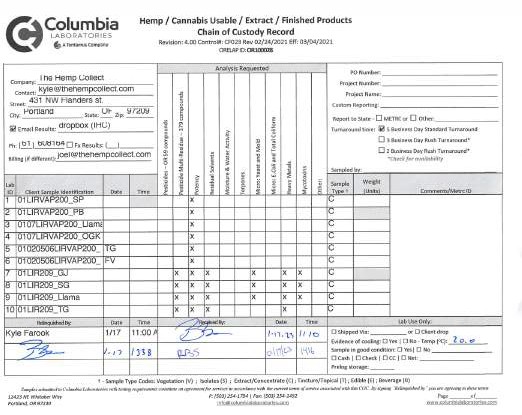
% = Percentage of sample

% wt = µg/g divided by 10,000

Approved Signatory



Derrick Tanner General Manager



Laboratory Quality Control Results

J AOAC 2015 V98-6 Batch ID: 2300604

Laboratory Control Sample

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Analyte | LCS | Result | Spike | Units | % Rec |  | Limits |  | Evaluation | Notes |
| CBDVA | 2 | 0.103 | 0.100 | % | 103 | 80.0 | - | 120 | Acceptable |  |
| CBDV | 2 | 0.110 | 0.106 | % | 103 | 80.0 | - | 120 | Acceptable |  |
| CBE | 2 | 0.107 | 0.105 | % | 102 | 80.0 | - | 120 | Acceptable |  |
| CBDA | 1 | 0.0962 | 0.096 | % | 100.0 | 90.0 | - | 110 | Acceptable |  |
| CBGA | 1 | 0.0969 | 0.096 | % | 101 | 80.0 | - | 120 | Acceptable |  |
| CBG | 1 | 0.100 | 0.099 | % | 102 | 80.0 | - | 120 | Acceptable |  |
| CBD | 1 | 0.0966 | 0.097 | % | 99.2 | 90.0 | - | 110 | Acceptable |  |
| THCV | 2 | 0.109 | 0.106 | % | 103 | 80.0 | - | 120 | Acceptable |  |
| d8THCV | 2 | 0.108 | 0.103 | % | 104 | 80.0 | - | 120 | Acceptable |  |
| THCVA | 2 | 0.102 | 0.099 | % | 103 | 80.0 | - | 120 | Acceptable |  |
| CBN | 1 | 0.103 | 0.102 | % | 101 | 80.0 | - | 120 | Acceptable |  |
| exo-THC | 2 | 0.101 | 0.097 | % | 104 | 80.0 | - | 120 | Acceptable |  |
| d9THC | 1 | 0.108 | 0.105 | % | 103 | 90.0 | - | 110 | Acceptable |  |
| d8THC | 1 | 0.101 | 0.100 | % | 100 | 90.0 | - | 110 | Acceptable |  |
| CBL | 2 | 0.111 | 0.104 | % | 107 | 80.0 | - | 120 | Acceptable |  |
| d10THC | 1 | 0.0480 | 0.047 | % | 102 | 80.0 | - | 120 | Acceptable |  |
| CBC | 2 | 0.105 | 0.104 | % | 101 | 80.0 | - | 120 | Acceptable |  |
| THCA | 1 | 0.0960 | 0.095 | % | 101 | 90.0 | - | 110 | Acceptable |  |
| CBCA | 2 | 0.104 | 0.103 | % | 101 | 80.0 | - | 120 | Acceptable |  |
| CBLA | 2 | 0.109 | 0.105 | % | 104 | 80.0 | - | 120 | Acceptable |  |
| CBT | 2 | 0.109 | 0.105 | % | 103 | 80.0 | - | 120 | Acceptable |  |

Method Blank

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Analyte | Result | LOQ | Units |  | Limits | Evaluation | Notes |
| CBDVA | <LOQ | 0.077 | % | < | 0.077 | Acceptable |  |
| CBDV | <LOQ | 0.077 | % | < | 0.077 | Acceptable |  |
| CBE | <LOQ | 0.077 | % | < | 0.077 | Acceptable |  |
| CBDA | <LOQ | 0.077 | % | < | 0.077 | Acceptable |  |
| CBGA | <LOQ | 0.077 | % | < | 0.077 | Acceptable |  |
| CBG | <LOQ | 0.077 | % | < | 0.077 | Acceptable |  |
| CBD | <LOQ | 0.077 | % | < | 0.077 | Acceptable |  |
| THCV | <LOQ | 0.077 | % | < | 0.077 | Acceptable |  |
| d8THCV | <LOQ | 0.077 | % | < | 0.077 | Acceptable |  |
| THCVA | <LOQ | 0.077 | % | < | 0.077 | Acceptable |  |
| CBN | <LOQ | 0.077 | % | < | 0.077 | Acceptable |  |
| exo-THC | <LOQ | 0.077 | % | < | 0.077 | Acceptable |  |
| d9THC | <LOQ | 0.077 | % | < | 0.077 | Acceptable |  |
| d8THC | <LOQ | 0.077 | % | < | 0.077 | Acceptable |  |
| CBL | <LOQ | 0.077 | % | < | 0.077 | Acceptable |  |
| d10THC | <LOQ | 0.077 | % | < | 0.077 | Acceptable |  |
| CBC | <LOQ | 0.077 | % | < | 0.077 | Acceptable |  |
| THCA | <LOQ | 0.077 | % | < | 0.077 | Acceptable |  |
| CBCA | <LOQ | 0.077 | % | < | 0.077 | Acceptable |  |
| CBLA | <LOQ | 0.077 | % | < | 0.077 | Acceptable |  |
| CBT | <LOQ | 0.077 | % | < | 0.077 | Acceptable |  |

*Abbreviations*

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

*Units of Measure:*

% - Percent

Laboratory Quality Control Results

J AOAC 2015 V98-6 Batch ID: 2300604

Sample Duplicate Sample D: 22-004270-0004

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Analyte | Result | Org. Result | LOQ | Units | RPD |  | Limits | Evaluation | Notes |
| CBDVA | <LOQ | <LOQ | 0.077 | % | NA | < | 20 | Acceptable |  |
| CBDV | 0.485 | 0.485 | 0.077 | % | 0.0286 | < | 20 | Acceptable |  |
| CBE | <LOQ | <LOQ | 0.077 | % | NA | < | 20 | Acceptable |  |
| CBDA | <LOQ | <LOQ | 0.077 | % | NA | < | 20 | Acceptable |  |
| CBGA | <LOQ | <LOQ | 0.077 | % | NA | < | 20 | Acceptable |  |
| CBG | 0.188 | 0.188 | 0.077 | % | 0.345 | < | 20 | Acceptable |  |
| CBD | 85.0 | 85.5 | 0.077 | % | 0.592 | < | 20 | Acceptable |  |
| THCV | <LOQ | <LOQ | 0.077 | % | NA | < | 20 | Acceptable |  |
| d8THCV | <LOQ | <LOQ | 0.077 | % | NA | < | 20 | Acceptable |  |
| THCVA | <LOQ | <LOQ | 0.077 | % | NA | < | 20 | Acceptable |  |
| CBN | 0.499 | 0.501 | 0.077 | % | 0.406 | < | 20 | Acceptable |  |
| exo-THC | <LOQ | <LOQ | 0.077 | % | NA | < | 20 | Acceptable |  |
| d9THC | <LOQ | <LOQ | 0.077 | % | NA | < | 20 | Acceptable |  |
| d8THC | <LOQ | <LOQ | 0.077 | % | NA | < | 20 | Acceptable |  |
| CBL | <LOQ | 0.0772 | 0.077 | % | NA | < | 20 | Acceptable | R2 |
| d10THC | <LOQ | <LOQ | 0.077 | % | NA | < | 20 | Acceptable |  |
| CBC | 0.936 | 0.937 | 0.077 | % | 0.136 | < | 20 | Acceptable |  |
| THCA | <LOQ | <LOQ | 0.077 | % | NA | < | 20 | Acceptable |  |
| CBCA | <LOQ | <LOQ | 0.077 | % | NA | < | 20 | Acceptable |  |
| CBLA | <LOQ | <LOQ | 0.077 | % | NA | < | 20 | Acceptable |  |
| CBT | 0.575 | 0.579 | 0.077 | % | 0.591 | < | 20 | Acceptable |  |

*Abbreviations*

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

*Units of Measure:*



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 | Quantitaion 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. |

**PharmLabs San Diego** Certificate of Analysis

###### 3421 Hancock St, Second Floor, San Diego, CA 92110 I License: C8-0000098-LIC IS0/IEC 17025:2017 Certification L17-427-1 I Accreditation #[85368](https://www.dropbox.com/s/l983yoy8rtdtn0q/L21-599%20PharmLabs%20San%20Diego.pdf?dl=0)

Sample **01SDT224\_CRD\_CRYSTAL RES. CBD**

Sample ID **SD230412-042 (72070)** Matrix **Concentrate (Inhalable Cannabis Good)**

Tested for **The Hemp Collect**

Sampled **-**  eceived **Apr 12, 2023**  eported **Apr 24, 2023**

Analyses executed **CAN+, RES, MIBIG, MTO, PES, HME, FVI**

## CAN+ - Cannabinoids Analysis

Analyzed **Apr 24, 2023** I Instrument **HPLC-VWD** I Method **SOP-001**

The expanded Uncertainty of the Cannabinoid analysis is approximately ±**7.806**% at the 95% Confidence Level

**Analyte**

**LOD**

**mg/g**

**LOQ**

**mg/g**

**Result**

**%**

**Result mg/g**

Cannabidivarin (CBDV) 0.039 0.16 **ND ND**

Cannabigerol Acid (CBGA)

0.001

0.16

**ND**

**ND**

Cannabidiol (CBD)

0.001

0.16

**49.16**

**491.56**

Cannabinol (CBN)

0.001

0.16

**2.29**

**22.93**

�8-tetrahydrocannabinol (�8-THC)

0.004

0.16

**ND**

**ND**

Cannabichromene (CBC)

0.002

0.16

**5.71**

**57.09**

**Total THC ( THCa \* 0.877 + A9THC )**

**ND**

**ND**

**Total CBD ( CBDa \* 0.877 + CBD )**

**49.16**

**491.56**

**Total CBG ( CBGa \* 0.877 + CBG ) 0.77** **7.73**

**Total THC + A8THC ( THCa \* 0.877 + A9THC + A8THC ) ND ND**

Tetrahydrocannabinolic Acid (THCA) 0.001 0.16 **ND ND**

Cannabicyclol (CBL) 0.002 0.16 **0.76** **7.64**

Tetrahydrocannabinol (�9-THC) 0.003 0.16 **ND ND**

Tetrahydrocannabivarin (THCV) 0.001 0.16 **ND ND**

Cannabigerol (CBG) 0.001 0.16 **0.77** **7.73**

Cannabidiolic Acid (CBDA) 0.001 0.16 **ND ND**

**Total Cannabinoids 58.70** **586.95**

## HME - Heavy Metals Detection Analysis

Analyzed **Apr 14, 2023** I Instrument **ICP/MSMS** I Method **SOP-005**

**Analyte**

**LOD**

**ug/g**

**LOQ**

**ug/g**

**Result ug/g**

**Limit ug/g**

**Analyte**

**LOD**

**ug/g**

**LOQ**

**ug/g**

**Result ug/g**

**Limit ug/g**

Arsenic (As) 0.0002 0.0005 **ND** 0.2 Cadmium (Cd) 3.0e-05 0.0005 **ND** 0.2

Mercury (Hg) 1.0e-05 0.0001 **ND** 0.1 Lead (Pb) 1.0e-05 0.00125 **ND** 0.5

## MIBIG - Microbial Testing Analysis

Analyzed **Apr 17, 2023** I Instrument **qPCR and/or Plating** I Method **SOP-007**

**Analyte**

**Result CFU/g**

**Limit**

**Analyte**

**Result CFU/g**

**Limit**

Shiga toxin-producing Escherichia Coli **ND** ND per 1 gram Salmonella spp. **ND** ND per 1 gram

Aspergillus fumigatus **ND** ND per 1 gram Aspergillus flavus **ND** ND per 1 gram

Aspergillus niger **ND** ND per 1 gram Aspergillus terreus **ND** ND per 1 gram

## MT0 - Mycotoxin Testing Analysis

Analyzed **Apr 14, 2023** I Instrument **LC/MSMS** I Method **SOP-004**

**Analyte**

**LOD LOQ**

**ug/kg ug/kg**

**Result ug/kg (ppb)**

**Limit**

**ug/kg Analyte**

**LOD LOQ**

**ug/kg ug/kg**

**Result ug/kg (ppb)**

**Limit ug/kg**

0chratoxin A 5.0 20.0 **ND** 20 Aflatoxin B1 2.5 5.0 **ND** -

Aflatoxin B2 2.5 5.0 **ND** - Aflatoxin G1 2.5 5.0 **ND** -

Aflatoxin G2 2.5 5.0 **ND** - Total Aflatoxins 10.0 20.0 **ND** 20

## PES - Pesticides Screening Analysis

Analyzed **Apr 14, 2023** I Instrument **LC/MSMS GC/MSMS** I Method **SOP-003**



**Analyte**

**LOD**

**ug/g**

**LOQ**

**ug/g**

**Result ug/g**

**Limit ug/g**

**Analyte**

**LOD**

**ug/g**

**LOQ**

**ug/g**

**Result ug/g**

**Limit ug/g**

Aldicarb 0.0078 0.02 **ND** 0.0078 Carbofuran 0.01 0.02 **ND** 0.01

Fenoxycarb 0.01 0.02 **ND** 0.01 Thiachloprid 0.01 0.02 **ND** 0.01



Dimethoate 0.01 0.02 **ND** 0.01 Etofenprox 0.02 0.1 **ND** 0.02



Daminozide 0.01 0.03 **ND** 0.01 Dichlorvos 0.02 0.07 **ND** 0.02

Imazalil 0.02 0.07 **ND** 0.02 Methiocarb 0.01 0.02 **ND** 0.01



Spiroxamine 0.01 0.02 **ND** 0.01 Coumaphos 0.01 0.02 **ND** 0.01

Fipronil 0.01 0.1 **ND** 0.01 Paclobutrazol 0.01 0.03 **ND** 0.01



Chlorpyrifos 0.01 0.04 **ND** 0.01 Ethoprophos (Prophos) 0.01 0.02 **ND** 0.01

Baygon (Propoxur) 0.01 0.02 **ND** 0.01 Chlordane 0.04 0.1 **ND** 0.04



Chlorfenapyr 0.03 0.1 **ND** 0.03 Methyl Parathion 0.02 0.1 **ND** 0.02

Mevinphos 0.03 0.08 **ND** 0.03 Abamectin 0.03 0.08 **ND** 0.1



Acephate 0.02 0.05 **ND** 0.1 Acetamiprid 0.01 0.05 **ND** 0.1

Azoxystrobin 0.01 0.02 **ND** 0.1 Bifenazate 0.01 0.05 **ND** 0.1



Bifenthrin 0.02 0.35 **ND** 3 Boscalid 0.01 0.03 **ND** 0.1

Carbaryl 0.01 0.02 **ND** 0.5 Chlorantraniliprole 0.01 0.04 **ND** 10



Clofentezine 0.01 0.03 **ND** 0.1 Diazinon 0.01 0.02 **ND** 0.1

Dimethomorph 0.02 0.06 **ND** 2 Etoxazole 0.01 0.05 **ND** 0.1



Fenpyroximate 0.02 0.1 **ND** 0.1 Flonicamid 0.01 0.02 **ND** 0.1

Fludioxonil 0.01 0.05 **ND** 0.1 Hexythiazox 0.01 0.03 **ND** 0.1



Imidacloprid 0.01 0.05 **ND** 5 Kresoxim-methyl 0.01 0.03 **ND** 0.1

Malathion 0.01 0.05 **ND** 0.5 Metalaxyl 0.01 0.02 **ND** 2



Methomyl 0.02 0.05 **ND** 1 Myclobutanil 0.02 0.07 **ND** 0.1

Naled 0.01 0.02 **ND** 0.1 0xamyl 0.01 0.02 **ND** 0.5



Permethrin 0.01 0.02 **ND** 0.5 Phosmet 0.01 0.02 **ND** 0.1

Piperonyl Butoxide 0.02 0.06 **ND** 3 Propiconazole 0.03 0.08 **ND** 0.1



Prallethrin 0.02 0.05 **ND** 0.1 Pyrethrin 0.05 0.41 **ND** 0.5

Pyridaben 0.02 0.07 **ND** 0.1 Spinosad A 0.01 0.05 **ND** 0.1



Spinosad D 0.01 0.05 **ND** 0.1 Spiromesifen 0.02 0.06 **ND** 0.1

Spirotetramat 0.01 0.02 **ND** 0.1 Tebuconazole 0.01 0.02 **ND** 0.1



Thiamethoxam 0.01 0.02 **ND** 5 Trifloxystrobin 0.01 0.02 **ND** 0.1

Acequinocyl 0.02 0.09 **ND** 0.1 Captan 0.01 0.02 **ND** 0.7



Cypermethrin 0.02 0.1 **ND** 1 Cyfluthrin 0.04 0.1 **ND** 2

Fenhexamid 0.02 0.07 **ND** 0.1 Spinetoram J,L 0.02 0.07 **ND** 0.1



Pentachloronitrobenzene 0.01 0.1 **ND** 0.1

## ES - esidual Solvents Testing Analysis

Analyzed **Apr 20, 2023** I Instrument **GC/FID with Headspace Analyzer** I Method **SOP-006**



**Analyte**

**LOD**

**ug/g**

**LOQ**

**ug/g**

**Result ug/g**

**Limit ug/g**

**Analyte**

**LOD**

**ug/g**

**LOQ**

**ug/g**

**Result ug/g**

**Limit ug/g**

Propane (Prop) 0.4 40.0 **ND** Butane (But) 0.4 40.0 **ND**



Methanol (Metha) 0.4 40.0 **ND** Ethylene 0xide (Eth0x) 0.4 0.8 **ND**

Pentane (Pen) 0.4 40.0 **ND** Ethanol (Ethan) 0.4 40.0 **ND**



Ethyl Ether (EthEt) 0.4 40.0 **ND** Acetone (Acet) 0.4 40.0 **<LOQ**

Isopropanol (2-Pro) 0.4 40.0 **ND** Acetonitrile (Acetonit) 0.4 40.0 **ND**



Methylene Chloride (MetCh) 0.4 0.8 **ND** Hexane (Hex) 0.4 40.0 **ND**

Ethyl Acetate (EthAc) 0.4 40.0 **ND** Chloroform (Clo) 0.4 0.8 **ND**



Benzene (Ben) 0.4 0.8 **ND** 1-2-Dichloroethane (12-Dich) 0.4 0.8 **ND**

Heptane (Hep) 0.4 40.0 **ND** Trichloroethylene (TriClEth) 0.4 0.8 **ND**



Toluene (Toluene) 0.4 40.0 **ND** Xylenes (Xyl) 0.4 40.0 **ND**

## FVI - Filth & Foreign Material Inspection Analysis

Analyzed **Apr 13, 2023** I Instrument **Microscope** I Method **SOP-010**



**Analyte / Limit Result Analyte / Limit Result**

> 1/4 of the total sample area covered by sand, soil, cinders, or dirt

> 1/4 of the total sample area

covered by mold **ND**

**ND**



> 1 insect fragment, 1 hair, or 1 count mammalian excreta per 3g

**ND**

> 1/4 of the total sample area

covered by an imbedded foreign material

**ND**

**Product identity:** 01LIR209\_PB

### Client/Metrc ID: .

**Laboratory ID:** 23-000690-0024

**Potency:**

# Summary

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Analyte** | **Result (%)** |  | CBD-Total | 57.3% |
| CBD-A | 64.4 | CBD-A |
| CBC-A | 2.64 | CBC-A |  | |
| THC-Total | 2.40% |
| THC-A | 2.44 | THC-A |
| CBG-A CBD CBDV-A | 2.09  0.792  0.784 | CBG-A CBD CBDV-A  ∆9-THC |
| (Reported in percent of total sample) | |
| -THC | 0.255 | CBG |  | |
| CBG | 0.166 | CBC |  | |
| CBC | 0.0885 |  |  | |

**Residual Solvents:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Analyte** | **Result (µg/g)** | **Limits (µg/g)** | **Status** |
| n-Butane | 636 |  |  |
| Butanes (sum) | 636 | 5000 | pass |
| **Pesticides:** |  |  |  |
| **Analyte** | **Result (mg/kg)** |  | **Limits Status (mg/kg)** |
| Multi-Residue Pesticide Profile | < LOQ for | all analytes |  |

**Metals:**

*Less than LOQ for all analytes.*

##### 825 NW 16th Ave Portland Oregon 97209

United States of America (USA)

**Product identity:** 01LIR209\_PB

**Client/Metrc ID:** .

**Sample Date:**

**Laboratory ID: Evidence of Cooling: Temp:**

**Relinquished by:**

23-000690-0024

No 20 °C

ramos

# Sample Results

Potency

**Method:** J AOAC 2015 V98-6 (mod)þ **Units** % **Batch:** 2300680 **Analyze:** 1/21/23 4:51:00 AM

**Analyte As**

**Received**

**Dry**

**weight**

**LOQ Notes**

 CBD-A

CBC CBC-A

CBC-Total CBD

CBD-A

CBD-Total CBDV CBDV-A

CBDV-Total CBE

CBG CBG-A

CBG-Total CBL

CBL-A

CBL-Total CBN

CBT

-THC-9R

-THC

-THCV

-THC exo-THC THC-A

THC-Total THCV THCV-A

THCV-Total

**Total Cannabinoids**

0.0885

2.64

2.40

0.792

64.4

57.3

< LOQ 0.784

0.680

< LOQ 0.166

2.09

2.00

< LOQ

< LOQ

< LOQ

< LOQ

< LOQ

< LOQ

< LOQ

< LOQ 0.255

< LOQ 2.44

2.40

< LOQ

< LOQ

< LOQ 73.7

0.0746

0.0746

0.140

0.0746

0.746

0.729

0.0746

0.0746

0.139

0.0746

0.0746

0.0746

0.139

0.0746

0.0746

0.140

0.0746

0.0746

0.0746

0.0746

0.0746

0.0746

0.0746

0.0746

0.140

0.0746

0.0746

0.139

 CBC-A  THC-A  CBG-A  CBD

 CBDV-A  ∆9-THC  CBG

 CBC

##### Page 2 of 16

[**www.columbialaboratories.com**](http://www.columbialaboratories.com/)

Solvents **Method:** Residual Solvents by GC/MSþ **Units** µg/g **Batch** 2300691 **Analyze** 01/23/23 03:03 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  2-Methylpentane | < LOQ  < LOQ | 160 | 30.0  30.0 | pass | 2-Methylbutane (Isopentane)  2-Propanol (IPA) | < LOQ  < LOQ | 5000 | 200  200 | pass |
| 2,2-Dimethylbutane  2,3-Dimethylbutane | < LOQ  < LOQ |  | 30.0  30.0 |  | 2,2-Dimethylpropane (neo-pentane)  3-Methylpentane | < LOQ  < LOQ |  | 200  30.0 |  |
| Acetone | < LOQ | 5000 | 200 | pass | Acetonitrile | < LOQ | 410 | 100 | pass |
| Benzene | < LOQ | 2.00 | 1.00 | pass | Butanes (sum) | 636 | 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) Methanol | < LOQ  < LOQ | 70.0  3000 | 30.0  200 | pass  pass | m,p-Xylene  Methylene chloride | < LOQ  < LOQ | 600 | 200  60.0 | pass |
| Methylpropane (Isobutane)  n-Heptane | < LOQ  < LOQ | 5000 | 200  200 | pass | n-Butane  n-Hexane | 636  < LOQ |  | 200  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)þ **Units** mg/kg **Batch** 2300713 **Analyze** 01/24/23 10:07 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 | 0.0958 | 2300594 | 01/18/23 | AOAC 2013.06 (mod.)þ | pass |
| Cadmium | < LOQ | 0.200 | mg/kg | 0.0958 | 2300594 | 01/18/23 | AOAC 2013.06 (mod.)þ | pass |
| Lead | < LOQ | 0.500 | mg/kg | 0.0958 | 2300594 | 01/18/23 | AOAC 2013.06 (mod.)þ | pass |
| Mercury | < LOQ | 0.100 | mg/kg | 0.0479 | 2300594 | 01/18/23 | AOAC 2013.06 (mod.)þ | pass |

[**www.columbialaboratories.com**](http://www.columbialaboratories.com/)

Page 3 of 16

#### 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.

þ = ISO/IEC 17025:2017 accredited method.

#### Units of Measure

µg/g = Microgram per gram

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

% = Percentage of sample

% wt = µg/g divided by 10,000

Approved Signatory



Derrick Tanner General Manager

|  |  |  |
| --- | --- | --- |
|  |  |  |
| Analyte | LOQ  (mg/kg) |
| 2,4-D | 0.1 |
| Abamectin | 0.1 |
| Acephate | 0.2 |
| Acequinocyl | 0.2 |
| Acetamiprid | 0.1 |
| Acetochlor | 0.2 |
| Acrinathrin | 0.1 |
| Alachlor | 0.1 |
| Aldicarb | 0.1 |
| Aldoxycarb | 0.1 |
| Aldrin | 0.1 |
| Ametoctradin | 0.1 |
| Ametryn | 0.1 |
| Anilazine | 0.1 |
| Aspon | 0.1 |
| Asulam | 0.1 |
| Atrazine | 0.1 |
| Atrazine-desethyl | 0.1 |
| Azinphos-ethyl | 0.1 |
| Azinphos-methyl | 0.1 |
| Azoxystrobin | 0.1 |
| Benalaxyl | 0.1 |
| Bendiocarb | 0.1 |
| Benoxacor | 0.1 |
| Bensulide | 0.1 |
| Bentazon | 0.1 |
| Bifenazate | 0.1 |
| Bifenox | 0.1 |
| Bifenthrin | 0.1 |
| Binapacryl | 0.1 |
| Boscalid | 0.1 |
| Bromacil | 0.1 |
| Bromophos-ethyl | 0.1 |
| Bromopropylate | 0.1 |
| Bromoxynil | 0.1 |
| Bupirimate | 0.1 |
| Buprofezin | 0.1 |
| Butachlor | 0.1 |
| Butylate | 0.1 |
| Cadusafos | 0.1 |
| Captan | 0.2 |
| Carbaryl | 0.1 |
| Carbendazim | 0.1 |
| Carbofuran | 0.1 |
| Carbofuran 3-hydroxy | 0.1 |
| Carbophenothion | 0.1 |
| Carbophenothion-methyl | 0.1 |
| Carboxin | 0.1 |

|  |  |
| --- | --- |
| Analyte | LOQ  (mg/kg) |
| Dieldrin | 0.1 |
| Diethofencarb | 0.1 |
| Difenoconazol | 0.1 |
| Diflubenzuron | 0.1 |
| Diflufenzopyr | 0.1 |
| Dimethenamid | 0.1 |
| Dimethoat | 0.1 |
| Dimethomorph | 0.1 |
| Dinoseb | 0.1 |
| Dinotefuran | 0.1 |
| Dioxathion | 0.1 |
| Diphenamid | 0.1 |
| Diphenylamine (DPA) | 0.1 |
| Disulfoton | 0.1 |
| Disulfoton-sulfone | 0.1 |
| Disulfoton-Sulfoxide | 0.1 |
| Diuron | 0.1 |
| DNOC | 0.1 |
| Edifenphos | 0.1 |
| Endosulfan (alpha isomer) | 0.1 |
| Endosulfan (beta isomer) | 0.1 |
| Endosulfan-sulfate | 0.1 |
| Endrin | 0.1 |
| EPN | 0.1 |
| EPTC | 0.1 |
| Esfenvalerate/Fenvalerate | 0.1 |
| Ethiofencarb | 0.1 |
| Ethion | 0.1 |
| Ethofumesate | 0.1 |
| Ethoprophos | 0.1 |
| Etofenprox | 0.1 |
| Etoxazole | 0.1 |
| Etrimfos | 0.1 |
| Famoxadone | 0.1 |
| Famphur | 0.1 |
| Fenamiphos | 0.1 |
| Fenamiphos-Sulfone | 0.1 |
| Fenamiphos-Sulfoxide | 0.1 |
| Fenazaquin | 0.1 |
| Fenbuconazole | 0.1 |
| Fenhexamid | 0.1 |
| Fenobucarb | 0.1 |
| Fenoxycarb | 0.1 |
| Fenpropathrin | 0.1 |
| Fensulfothion | 0.1 |
| Fenthion | 0.1 |
| Fenuron | 0.1 |
| Fipronil | 0.1 |

LOQ= Limit of Quantitation

|  |  |
| --- | --- |
| Analyte | LOQ  (mg/kg) |
| Chlorantraniliprol | 0.1 |
| Chlordane, cis- | 0.1 |
| Chlordane, trans- | 0.1 |
| Chlorfenapyr | 0.1 |
| Chlorfenvinphos | 0.1 |
| Chlorobenzilate | 0.1 |
| Chlorpyrifos-ethyl | 0.1 |
| Chlorpyrifos-methyl | 0.1 |
| Chlorthal-dimethyl (Dacthal) | 0.1 |
| Clethodim | 0.1 |
| Clethodim sulfone | 0.1 |
| Clethodim sulfoxide | 0.1 |
| Clofentezine | 0.1 |
| Clomazone | 0.1 |
| Clopyralid | 0.1 |
| Clothianidin | 0.1 |
| Coumaphos | 0.1 |
| Crotoxyphos | 0.1 |
| Cyanofenphos | 0.1 |
| Cyanophos | 0.1 |
| Cyantraniliprole | 0.1 |
| Cyazofamid | 0.1 |
| Cyfluthrin | 0.1 |
| Cyhalothrin, lambda | 0.1 |
| Cymoxanil | 0.1 |
| Cypermethrin | 0.1 |
| Cyprodinil | 0.1 |
| DDD, o,p'- | 0.1 |
| DDD, p,p'- | 0.1 |
| DDE, o,p'- | 0.1 |
| DDE, p,p'- | 0.1 |
| DDT, o,p'- | 0.1 |
| DDT, p,p'- | 0.1 |
| DEET | 0.1 |
| Deltamethrin | 0.1 |
| Demeton-S | 0.1 |
| Demeton-s-methyl | 0.1 |
| Demeton-S-methyl-sulfone | 0.1 |
| Desmedipham | 0.1 |
| Diazinon | 0.1 |
| Dicamba | 0.1 |
| Dichlofenthion | 0.1 |
| Dichlofluanid | 0.1 |
| Dichlorbenzamid | 0.1 |
| Dichlorvos | 0.1 |
| Diclofop | 0.1 |
| Diclofop-methyl | 0.1 |
| Dicrotophos | 0.1 |

mg/kg= milligram per kilogram (ppm) Page 1 of 3 Updated: 09.12.2022

|  |  |  |
| --- | --- | --- |
|  | |  |
| Analyte | LOQ  (mg/kg) |
| Flonicamid | 0.1 |
| Fluazifop | 0.1 |
| Fluazinam | 0.1 |
| Flucythrinate | 0.1 |
| Fludioxonil | 0.1 |
| Flufenacet | 0.1 |
| Flumioxazin | 0.1 |
| Fluopicolide | 0.1 |
| Fluopyram | 0.1 |
| Fluoxastrobin | 0.1 |
| Flupyradifurone | 0.1 |
| Fluridone | 0.1 |
| Fluroxypyr | 0.1 |
| Fluthiacet-methyl | 0.1 |
| Flutolanil | 0.1 |
| Flutriafol | 0.1 |
| Fluvalinate | 0.1 |
| Fluxapyroxad | 0.1 |
| Fomesafen | 0.1 |
| Formetanate | 0.1 |
| Furathiocarb | 0.1 |
| Haloxyfop | 0.1 |
| Heptachlor | 0.1 |
| Heptachlor epoxide | 0.1 |
| Hexaconazole | 0.1 |
| Hexazinone | 0.1 |
| Hexythiazox | 0.1 |
| Hydropene | 0.1 |
| Imazalil | 0.1 |
| Imazethapyr | 0.1 |
| Imidacloprid | 0.1 |
| Indaziflam | 0.1 |
| Indoxacarb | 0.1 |
| Iprobenfos | 0.1 |
| Iprodion | 0.1 |
| Isobenzan | 0.1 |
| Isofenphos | 0.1 |
| Isofenphos-methyl | 0.1 |
| Isofenphos-oxon | 0.1 |
| Isoprocarb | 0.1 |
| Isoprothiolane | 0.1 |
| Isoproturon | 0.1 |
| Isoxaben | 0.1 |
| Kresoxim-methyl | 0.1 |
| Lindane | 0.1 |
| Linuron | 0.1 |
| Malaoxon | 0.1 |
| Malathion | 0.1 |

|  |  |
| --- | --- |
| Analyte | LOQ  (mg/kg) |
| Phenothrin | 0.1 |
| Phenthoate | 0.1 |
| Phorate | 0.1 |
| Phorate-Sulfone | 0.1 |
| Phorate-Sulfoxide | 0.1 |
| Phosalone | 0.1 |
| Phosmet | 0.1 |
| Phosphamidon | 0.1 |
| Phoxim | 0.1 |
| Pinoxaden | 0.1 |
| Piperonyl Butoxide | 0.1 |
| Pirimicarb | 0.1 |
| Pirimiphos-ethyl | 0.1 |
| Pirimiphos-methyl | 0.1 |
| Prallethrin | 0.1 |
| Prochloraz | 0.1 |
| Procymidone | 0.1 |
| Profenofos | 0.1 |
| Promecarb | 0.1 |
| Prometon | 0.1 |
| Prometryn | 0.1 |
| Propachlor | 0.1 |
| Propamocarb | 0.1 |
| Propanil | 0.1 |
| Propazine | 0.1 |
| Propetamophos | 0.1 |
| Propham | 0.1 |
| Propiconazole | 0.1 |
| Propoxur | 0.1 |
| Propyzamide | 0.1 |
| Prothiofos | 0.1 |
| Pyraclostrobin | 0.1 |
| Pyraflufen Ethyl | 0.1 |
| Pyrazophos | 0.1 |
| Pyrethrin | 0.1 |
| Pyridaben | 0.1 |
| Pyrimethanil | 0.1 |
| Pyriproxifen | 0.1 |
| Pyroxasulfone | 0.1 |
| Pyroxsulam | 0.1 |
| Quinalphos | 0.1 |
| Quinclorac | 0.1 |
| Quinoxyfen | 0.1 |
| Quintozene(PCNB) | 0.2 |
| Quizalofop | 0.1 |
| Resmethrin | 0.1 |
| Rotenone | 0.1 |
| Saflufenacil | 0.1 |

LOQ= Limit of Quantitation

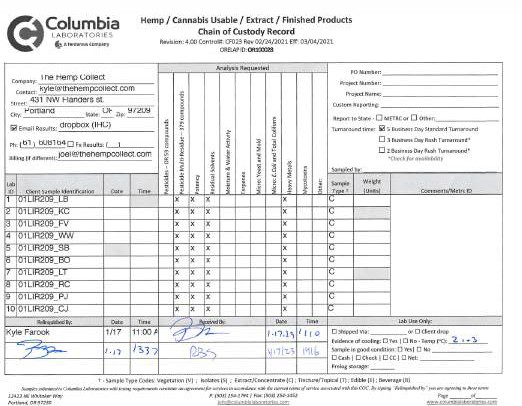
|  |  |
| --- | --- |
| Analyte | LOQ  (mg/kg) |
| Mandipropamid | 0.1 |
| MCPA | 0.1 |
| MCPB | 0.1 |
| MCPP | 0.1 |
| Mecabarm | 0.1 |
| Mepanipyrim | 0.1 |
| Mesotrione | 0.1 |
| Metalaxyl | 0.1 |
| Methamidophos | 0.1 |
| Methiocarb | 0.1 |
| Methiocarb sulfone | 0.1 |
| Methiocarb sulfoxide | 0.1 |
| Methomyl | 0.1 |
| Methoxyfenozide | 0.1 |
| Metolachlor | 0.1 |
| Metolcarb | 0.1 |
| Metrafenone | 0.1 |
| Mevinphos | 0.1 |
| MGK 264 | 0.1 |
| Molinat | 0.1 |
| Monocrotophos | 0.1 |
| Monolinuron | 0.1 |
| Myclobutanil | 0.1 |
| Naled | 0.1 |
| Napropamide | 0.1 |
| Neburon | 0.1 |
| Norflurazon | 0.1 |
| Novaluron | 0.1 |
| Omethoat | 0.1 |
| Oryzalin | 0.1 |
| Oxadiazon | 0.1 |
| Oxadixyl | 0.1 |
| Oxamyl | 0.1 |
| Oxamyl-oxime | 0.1 |
| Oxychlordane | 0.1 |
| Oxydemeton-Methyl | 0.1 |
| Oxyfluorfen | 0.1 |
| Paclobutrazol | 0.1 |
| Paraoxon-ethyl | 0.1 |
| Paraoxon-methyl | 0.1 |
| Parathion-methyl | 0.1 |
| Penconazole | 0.1 |
| Pendimethalin | 0.1 |
| Penflufen | 0.1 |
| Penthiopyrad | 0.1 |
| Permethrin | 0.1 |
| Perthane | 0.1 |
| Phenmedipham | 0.1 |

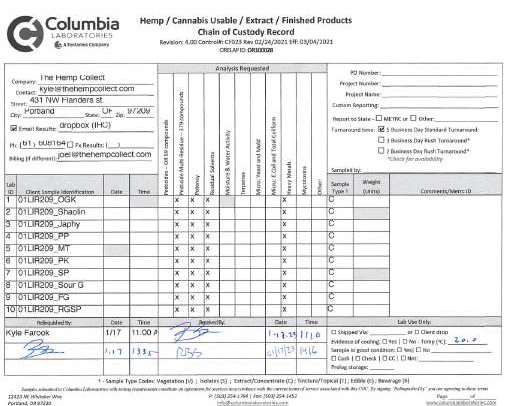
mg/kg= milligram per kilogram (ppm) Page 2 of 3 Updated: 09.12.2022

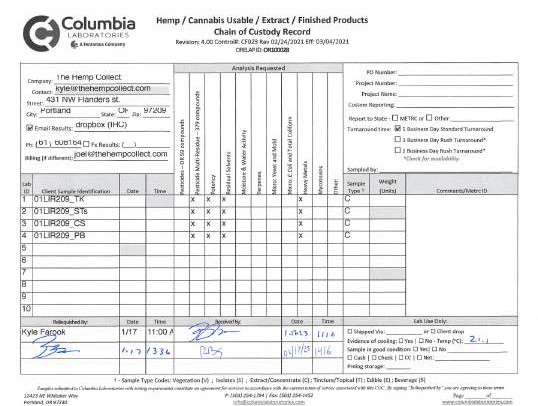
|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  | Cannabis |
|  |  |  |  |
| Analyte | LOQ  (mg/kg) |  |  |
| Sebuthylazin | 0.1 |  |  |
| Sethoxydim | 0.1 |  |  |
| Simazine | 0.1 |  |  |
| Simetryn | 0.1 |  |  |
| Spinetoram J/L | 0.1 |  |  |
| Spinosyn A/D | 0.1 |  |  |
| Spirodiclofen | 0.1 |  |  |
| Spiromesifen | 0.1 |  |  |
| Spirotetramat | 0.1 |  |  |
| Spiroxamine | 0.1 |  |  |
| Sulfentrazone | 0.1 |  |  |
| Sulfotep | 0.1 |  |  |
| Sulfoxaflor | 0.1 |  |  |
| Sulprofos | 0.1 |  |  |
| Tebuconazole | 0.1 |  |  |
| Tebufenozide | 0.1 |  |  |
| Terbufos | 0.1 |  |  |
| Terbuthylazine | 0.1 |  |  |
| Terbutryn | 0.1 |  |  |
| Tetrachlorvinphos | 0.1 |  |  |
| Tetraconazole | 0.1 |  |  |
| Tetramethrin | 0.1 |  |  |
| Thiabendazol | 0.1 |  |  |
| Thiabendazol-5-hydroxy | 0.1 |  |  |
| Thiacloprid | 0.1 |  |  |
| Thiamethoxam | 0.1 |  |  |
| Thiobencarb | 0.1 |  |  |
| Thiodicarb | 0.1 |  |  |
| Thiometon | 0.1 |  |  |
| Thiophanate-methyl | 0.2 |  |  |
| Tolfenpyrad | 0.1 |  |  |
| Tolylfluanid | 0.1 |  |  |
| Triadimefon | 0.1 |  |  |
| Triadimenol | 0.1 |  |  |
| Triazophos | 0.1 |  |  |
| Trifloxystrobin | 0.1 |  |  |
| Triflumizole | 0.1 |  |  |
| Triticonazole | 0.1 |  |  |
| Zoxamid | 0.1 |  |  |
|  | | |  |
|  | | |  |
|  | | |  |
|  | | |  |
|  | | |  |
|  | | |  |
|  | | |  |
|  | | |  |
|  | | |  |
|  | | |  |

LOQ= Limit of Quantitation

mg/kg= milligram per kilogram (ppm) Page 3 of 3 Updated: 09.12.2022







J AOAC 2015 V98-6 Batch ID: 2300680

Laboratory Control Sample

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Analyte | LCS | Result | Spike | Units | % Rec |  | Limits |  | Evaluation | Notes |
| CBDVA | 2 | 0.104 | 0.100 | % | 104 | 80.0 | - | 120 | Acceptable |  |
| CBDV | 2 | 0.110 | 0.106 | % | 104 | 80.0 | - | 120 | Acceptable |  |
| CBE | 2 | 0.108 | 0.105 | % | 103 | 80.0 | - | 120 | Acceptable |  |
| CBDA | 1 | 0.0968 | 0.096 | % | 101 | 90.0 | - | 110 | Acceptable |  |
| CBGA | 1 | 0.0973 | 0.096 | % | 101 | 80.0 | - | 120 | Acceptable |  |
| CBG | 1 | 0.100 | 0.099 | % | 102 | 80.0 | - | 120 | Acceptable |  |
| CBD | 1 | 0.0969 | 0.097 | % | 99.6 | 90.0 | - | 110 | Acceptable |  |
| THCV | 2 | 0.109 | 0.106 | % | 102 | 80.0 | - | 120 | Acceptable |  |
| d8THCV | 2 | 0.108 | 0.103 | % | 105 | 80.0 | - | 120 | Acceptable |  |
| THCVA | 2 | 0.102 | 0.099 | % | 103 | 80.0 | - | 120 | Acceptable |  |
| CBN | 1 | 0.104 | 0.102 | % | 102 | 80.0 | - | 120 | Acceptable |  |
| exo-THC | 2 | 0.101 | 0.097 | % | 104 | 80.0 | - | 120 | Acceptable |  |
| d9THC | 1 | 0.112 | 0.105 | % | 107 | 90.0 | - | 110 | Acceptable |  |
| d8THC | 1 | 0.0971 | 0.100 | % | 96.7 | 90.0 | - | 110 | Acceptable |  |
| CBL | 2 | 0.108 | 0.104 | % | 104 | 80.0 | - | 120 | Acceptable |  |
| 9S-HHC | 3 | 0.0995 | 0.100 | % | 99.5 | 80.0 | - | 120 | Acceptable |  |
| d10THC | 1 | 0.0471 | 0.047 | % | 99.8 | 80.0 | - | 120 | Acceptable |  |
| CBC | 2 | 0.107 | 0.104 | % | 103 | 80.0 | - | 120 | Acceptable |  |
| 9R-HHC | 3 | 0.0889 | 0.100 | % | 88.9 | 80.0 | - | 120 | Acceptable |  |
| THCA | 1 | 0.0964 | 0.095 | % | 101 | 90.0 | - | 110 | Acceptable |  |
| CBCA | 2 | 0.106 | 0.103 | % | 103 | 80.0 | - | 120 | Acceptable |  |
| CBLA | 2 | 0.108 | 0.105 | % | 104 | 80.0 | - | 120 | Acceptable |  |
| d8THCO | 3 | 0.104 | 0.100 | % | 104 | 80.0 | - | 120 | Acceptable |  |
| CBT | 2 | 0.109 | 0.105 | % | 104 | 80.0 | - | 120 | Acceptable |  |
| d9THCO | 3 | 0.110 | 0.100 | % | 110 | 80.0 | - | 120 | Acceptable |  |

Method Blank

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Analyte | Result | LOQ | Units | Limits | Evaluation | Notes |
| CBDVA | <LOQ | 0.0077 | % | < 0.0077 | Acceptable |  |
| CBDV | <LOQ | 0.0077 | % | < 0.0077 | Acceptable |  |
| CBE | <LOQ | 0.0077 | % | < 0.0077 | Acceptable |  |
| CBDA | <LOQ | 0.0077 | % | < 0.0077 | Acceptable |  |
| CBGA | <LOQ | 0.0077 | % | < 0.0077 | Acceptable |  |
| CBG | <LOQ | 0.0077 | % | < 0.0077 | Acceptable |  |
| CBD | <LOQ | 0.0077 | % | < 0.0077 | Acceptable |  |
| THCV | <LOQ | 0.0077 | % | < 0.0077 | Acceptable |  |
| d8THCV | <LOQ | 0.0077 | % | < 0.0077 | Acceptable |  |
| THCVA | <LOQ | 0.0077 | % | < 0.0077 | Acceptable |  |
| CBN | <LOQ | 0.0077 | % | < 0.0077 | Acceptable |  |
| exo-THC | <LOQ | 0.0077 | % | < 0.0077 | Acceptable |  |
| d9THC | <LOQ | 0.0077 | % | < 0.0077 | Acceptable |  |
| d8THC | <LOQ | 0.0077 | % | < 0.0077 | Acceptable |  |
| CBL | <LOQ | 0.0077 | % | < 0.0077 | Acceptable |  |
| 9S-HHC | <LOQ | 0.0077 | % | < 0.0077 | Acceptable |  |
| d10THC | <LOQ | 0.0077 | % | < 0.0077 | Acceptable |  |
| CBC | <LOQ | 0.0077 | % | < 0.0077 | Acceptable |  |
| 9R-HHC | <LOQ | 0.0077 | % | < 0.0077 | Acceptable |  |
| THCA | <LOQ | 0.0077 | % | < 0.0077 | Acceptable |  |
| CBCA | <LOQ | 0.0077 | % | < 0.0077 | Acceptable |  |
| CBLA | <LOQ | 0.0077 | % | < 0.0077 | Acceptable |  |
| d8THCO | <LOQ | 0.0077 | % | < 0.0077 | Acceptable |  |
| CBT | <LOQ | 0.0077 | % | < 0.0077 | Acceptable |  |
| d9THCO | <LOQ | 0.0077 | % | < 0.0077 | Acceptable |  |

*Abbreviations*

ND - None Detected at or above MRL RPD - Relative Percent Difference

LOQ - Limit of Quantitation

*Units of Measure:*

% - Percent

J AOAC 2015 V98-6 Batch ID: 2300680

Sample Duplicate Sample ID: 23-000673-0001

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Analyte | Result | Org. Result | LOQ | Units | RPD | Limits | Evaluation | Notes |
| CBDVA | 0.0236 | 0.0235 | 0.077 | % | 0.271 | < 20 | Acceptable |  |
| CBDV | <LOQ | <LOQ | 0.077 | % | NA | < 20 | Acceptable |  |
| CBE | <LOQ | <LOQ | 0.077 | % | NA | < 20 | Acceptable |  |
| CBDA | <LOQ | <LOQ | 0.077 | % | NA | < 20 | Acceptable |  |
| CBGA | <LOQ | <LOQ | 0.077 | % | NA | < 20 | Acceptable |  |
| CBG | <LOQ | <LOQ | 0.077 | % | NA | < 20 | Acceptable |  |
| CBD | <LOQ | <LOQ | 0.077 | % | NA | < 20 | Acceptable |  |
| THCV | <LOQ | <LOQ | 0.077 | % | NA | < 20 | Acceptable |  |
| d8THCV | <LOQ | <LOQ | 0.077 | % | NA | < 20 | Acceptable |  |
| THCVA | <LOQ | <LOQ | 0.077 | % | NA | < 20 | Acceptable |  |
| CBN | 0.0340 | 0.0342 | 0.077 | % | 0.526 | < 20 | Acceptable |  |
| exo-THC | <LOQ | <LOQ | 0.077 | % | NA | < 20 | Acceptable |  |
| d9THC | <LOQ | <LOQ | 0.077 | % | NA | < 20 | Acceptable |  |
| d8THC | 0.189 | 0.172 | 0.077 | % | 9.34 | < 20 | Acceptable |  |
| CBL | <LOQ | <LOQ | 0.077 | % | NA | < 20 | Acceptable |  |
| 9S-HHC | 39.6 | 38.5 | 0.077 | % | 2.70 | < 20 | Acceptable |  |
| d10THC | <LOQ | <LOQ | 0.077 | % | NA | < 20 | Acceptable |  |
| CBC | <LOQ | <LOQ | 0.077 | % | NA | < 20 | Acceptable |  |
| 9R-HHC | 36.9 | 35.2 | 0.077 | % | 4.96 | < 20 | Acceptable |  |
| THCA | <LOQ | <LOQ | 0.077 | % | NA | < 20 | Acceptable |  |
| CBCA | <LOQ | <LOQ | 0.077 | % | NA | < 20 | Acceptable |  |
| CBLA | <LOQ | <LOQ | 0.077 | % | NA | < 20 | Acceptable |  |
| d8THCO | <LOQ | <LOQ | 0.077 | % | NA | < 20 | Acceptable |  |
| CBT | <LOQ | <LOQ | 0.077 | % | NA | < 20 | Acceptable |  |
| d9THCO | <LOQ | <LOQ | 0.077 | % | NA | < 20 | Acceptable |  |

*Abbreviations*

ND - None Detected at or above MRL RPD - Relative Percent Difference

LOQ - Limit of Quantitation

R2 - Sample replicates RPD non-calculable, as only one replicateis within analytical range.

*Units of Measure:*

###### Laboratory Quality Control Results

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Residual Solvents Batch ID: 2300691 | | | | | | | | | | | | |
| Method Blank | | | | | Laboratory Control Sample | | | | | | | |
| Analyte | Result |  | LOQ | Notes | Result | Spike | Units | % Rec | Limits | | | Notes |
| Propane | ND | < | 200 |  | 547 | 572 | µg/g | 95.6 | 60 | - | 120 |  |
| Isobutane | ND | < | 200 |  | 701 | 731 | µg/g | 95.9 | 60 | - | 120 |  |
| Butane | ND | < | 200 |  | 678 | 731 | µg/g | 92.7 | 60 | - | 120 |  |
| 2,2-Dimethylpropane | ND | < | 200 |  | 893 | 936 | µg/g | 95.4 | 60 | - | 120 |  |
| Methanol | ND | < | 200 |  | 1580 | 1620 | µg/g | 97.5 | 60 | - | 120 |  |
| Ethylene Oxide | ND | < | 30 |  | 55 | 56.2 | µg/g | 97.9 | 60 | - | 120 |  |
| 2-Methylbutane | ND | < | 200 |  | 1520 | 1610 | µg/g | 94.4 | 60 | - | 120 |  |
| Pentane | ND | < | 200 |  | 1520 | 1600 | µg/g | 95.0 | 60 | - | 120 |  |
| Ethanol | ND | < | 200 |  | 1610 | 1610 | µg/g | 100.0 | 70 | - | 130 |  |
| Ethyl Ether | ND | < | 200 |  | 1560 | 1630 | µg/g | 95.7 | 60 | - | 120 |  |
| 2,2-Dimethylbutane | ND | < | 30 |  | 164 | 171 | µg/g | 95.9 | 60 | - | 120 |  |
| Acetone | ND | < | 200 |  | 1560 | 1630 | µg/g | 95.7 | 60 | - | 120 |  |
| 2-Propanol | ND | < | 200 |  | 1670 | 1620 | µg/g | 103.1 | 60 | - | 120 |  |
| Acetonitrile | ND | < | 100 |  | 475 | 498 | µg/g | 95.4 | 60 | - | 120 |  |
| 2,3-Dimethylbutane | ND | < | 30 |  | 160 | 171 | µg/g | 93.6 | 60 | - | 120 |  |
| Dichloromethane | ND | < | 60 |  | 476 | 483 | µg/g | 98.6 | 60 | - | 120 |  |
| 2-Methylpentane | ND | < | 30 |  | 161 | 168 | µg/g | 95.8 | 60 | - | 120 |  |
| 3-Methylpentane | ND | < | 30 |  | 146 | 167 | µg/g | 87.4 | 60 | - | 120 |  |
| Hexane | ND | < | 30 |  | 208 | 182 | µg/g | 114.3 | 60 | - | 120 |  |
| Ethyl acetate | ND | < | 200 |  | 1570 | 1610 | µg/g | 97.5 | 60 | - | 120 |  |
| 2-Butanol | ND | < | 200 |  | 1660 | 1600 | µg/g | 103.8 | 60 | - | 120 |  |
| Tetrahydrofuran | ND | < | 100 |  | 474 | 483 | µg/g | 98.1 | 60 | - | 120 |  |
| Cyclohexane | ND | < | 200 |  | 1540 | 1610 | µg/g | 95.7 | 60 | - | 120 |  |
| Benzene | ND | < | 1 |  | 5.3 | 5.02 | µg/g | 105.6 | 60 | - | 120 |  |
| Isopropyl Acetate | ND | < | 200 |  | 1670 | 1620 | µg/g | 103.1 | 60 | - | 120 |  |
| Heptane | ND | < | 200 |  | 1500 | 1610 | µg/g | 93.2 | 60 | - | 120 |  |
| 1,4-Dioxane | ND | < | 100 |  | 475 | 491 | µg/g | 96.7 | 60 | - | 120 |  |
| 2-Ethoxyethanol | ND | < | 30 |  | 316 | 181 | µg/g | 174.6 | 60 | - | 120 | Q1 |
| Ethylene Glycol | ND | < | 200 |  | 698 | 484 | µg/g | 144.2 | 60 | - | 120 | Q1 |
| Toluene | ND | < | 100 |  | 465 | 485 | µg/g | 95.9 | 60 | - | 120 |  |
| Ethylbenzene | ND | < | 200 |  | 911 | 969 | µg/g | 94.0 | 60 | - | 120 |  |
| m,p-Xylene | ND | < | 200 |  | 915 | 994 | µg/g | 92.1 | 60 | - | 120 |  |
| o-Xylene | ND | < | 200 |  | 901 | 967 | µg/g | 93.2 | 60 | - | 120 |  |
| Cumene | ND | < | 30 |  | 161 | 171 | µg/g | 94.2 | 60 | - | 120 |  |

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

QC- Sample Duplicate Sample ID: 23-000690-0005

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 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 | 1250 | 1160 | 200 | µg/g | 7.5 | < 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 |  |
| Toluene | 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 Units of Measure:*

ND - None Detected at or above MRL µg/g- Microgram per gram or ppm RPD- Relative Percent Difference

LOQ - Limit of Quantitation

Q1- Quality control result biasedhigh. Only non-detect samplesreported.



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 | Quantitaion 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. |