

**CBD FSD**

Sample ID:  
 Batch: Not Specified  
 Type: In-Process Material  
 Matrix: Concentrate - Distillate  
 Unit Mass (g):

Received: 09/03/2024  
 Completed: 09/12/2024

**Client**  
 Bulk CBD Distributors  
 1880 Arapahoe St.  
 Denver, CO 80202  
 USA


**Summary**

| Test              | Date Tested | Status |
|-------------------|-------------|--------|
| Cannabinoids      | 09/12/2024  | Tested |
| Heavy Metals      | 09/06/2024  | Tested |
| Microbials        | 09/10/2024  | Tested |
| Mycotoxins        | 09/11/2024  | Tested |
| Pesticides        | 09/11/2024  | Tested |
| Residual Solvents | 09/05/2024  | Tested |

|                               |                            |                                     |                                       |                                     |                                               |
|-------------------------------|----------------------------|-------------------------------------|---------------------------------------|-------------------------------------|-----------------------------------------------|
| <b>2.32 %</b><br>Total Δ9-THC | <b>77.8 %</b><br>Total CBD | <b>85.9 %</b><br>Total Cannabinoids | <b>Not Tested</b><br>Moisture Content | <b>Not Tested</b><br>Foreign Matter | <b>Yes</b><br>Internal Standard Normalization |
|-------------------------------|----------------------------|-------------------------------------|---------------------------------------|-------------------------------------|-----------------------------------------------|

**Cannabinoids by HPLC-PDA**

| Analyte             | LOD (%) | LOQ (%) | Result (%)  | Result (mg/g) |
|---------------------|---------|---------|-------------|---------------|
| CBC                 | 0.0095  | 0.0284  | 2.61        | 26.1          |
| CBCA                | 0.0181  | 0.0543  | ND          | ND            |
| CBCV                | 0.006   | 0.018   | ND          | ND            |
| CBD                 | 0.0081  | 0.0242  | 76.8        | 768           |
| CBDA                | 0.0043  | 0.013   | 1.24        | 12.4          |
| CBDV                | 0.0061  | 0.0182  | 0.357       | 3.57          |
| CBDVA               | 0.0021  | 0.0063  | ND          | ND            |
| CBG                 | 0.0057  | 0.0172  | 1.48        | 14.8          |
| CBGA                | 0.0049  | 0.0147  | ND          | ND            |
| CBL                 | 0.0112  | 0.0335  | 0.171       | 1.71          |
| CBLA                | 0.0124  | 0.0371  | ND          | ND            |
| CBN                 | 0.0056  | 0.0169  | 0.118       | 1.18          |
| CBNA                | 0.006   | 0.0181  | ND          | ND            |
| CBT                 | 0.018   | 0.054   | 0.851       | 8.51          |
| Δ8-THC              | 0.0104  | 0.0312  | ND          | ND            |
| Δ9-THC              | 0.0076  | 0.0227  | 2.32        | 23.2          |
| Δ9-THCA             | 0.0084  | 0.0251  | ND          | ND            |
| Δ9-THCV             | 0.0069  | 0.0206  | ND          | ND            |
| Δ9-THCVA            | 0.0062  | 0.0186  | ND          | ND            |
| <b>Total Δ9-THC</b> |         |         | <b>2.32</b> | <b>23.2</b>   |
| <b>Total</b>        |         |         | <b>85.9</b> | <b>859</b>    |

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; RL = Reporting Limit; Δ = Delta; Total Δ9-THC = Δ9-THCA \* 0.877 + Δ9-THC; Total CBD = CBDA \* 0.877 + CBD;



Generated By: Ryan Bellone  
 CCO  
 Date: 09/13/2024



Tested By: Kelsey Rogers  
 Scientist  
 Date: 09/12/2024



ISO/IEC 17025:2017 Accredited  
 Accreditation #108651

This product or substance has been tested by KCA Laboratories using validated testing methodologies and an ISO/IEC 17025:2017 accredited quality system. Values reported relate only to the product or substance tested. The reported result is based on a sample weight. Unless otherwise stated, results of tests performed on all quality control samples met criteria for acceptance established by KCA Laboratories. KCA Laboratories is not responsible for the results of tests performed on samples that are not representative of the product or substance tested. This Certificate of Analysis is valid only for the sample tested.

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**Heavy Metals by ICP-MS**

| Analyte | LOD (ppm) | LOQ (ppm) | Result (ppm) |
|---------|-----------|-----------|--------------|
| Arsenic | 0.002     | 0.02      | 0.0550       |
| Cadmium | 0.001     | 0.02      | ND           |
| Lead    | 0.002     | 0.02      | ND           |
| Mercury | 0.012     | 0.05      | ND           |

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Generated By: Ryan Bellone  
CCO  
Date: 09/13/2024



Tested By: Chris Farman  
Scientist  
Date: 09/06/2024

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**Pesticides by LC-MS/MS**

| Analyte              | LOD (ppb) | LOQ (ppb) | Result (ppb) | Analyte            | LOD (ppb) | LOQ (ppb) | Result (ppb) |
|----------------------|-----------|-----------|--------------|--------------------|-----------|-----------|--------------|
| Abamectin            | 30        | 100       | ND           | Hexythiazox        | 30        | 100       | ND           |
| Acetamiprid          | 30        | 100       | ND           | Imazalil           | 30        | 100       | ND           |
| Azoxystrobin         | 30        | 100       | ND           | Imidacloprid       | 30        | 100       | ND           |
| Bifenazate           | 30        | 100       | ND           | Kresoxim methyl    | 30        | 100       | ND           |
| Bifenthrin           | 30        | 100       | 192          | Malathion          | 30        | 100       | ND           |
| Boscalid             | 30        | 100       | ND           | Metalaxyl          | 30        | 100       | ND           |
| Carbaryl             | 30        | 100       | ND           | Methiocarb         | 30        | 100       | ND           |
| Carbofuran           | 30        | 100       | ND           | Mevinphos          | 30        | 100       | ND           |
| Chloranthraniliprole | 30        | 100       | ND           | Myclobutanil       | 30        | 100       | ND           |
| Chlorfenapyr         | 30        | 100       | ND           | Naled              | 30        | 100       | ND           |
| Chlorpyrifos         | 30        | 100       | ND           | Oxamyl             | 30        | 100       | ND           |
| Clofentezine         | 30        | 100       | ND           | Paclobutrazol      | 30        | 100       | ND           |
| Coumaphos            | 30        | 100       | ND           | Permethrin         | 30        | 100       | ND           |
| Cypermethrin         | 30        | 100       | ND           | Phosmet            | 30        | 100       | ND           |
| Diazinon             | 30        | 100       | ND           | Piperonyl Butoxide | 30        | 100       | 7050         |
| Dimethoate           | 30        | 100       | ND           | Propiconazole      | 30        | 100       | ND           |
| Dimethomorph         | 30        | 100       | ND           | Propoxur           | 30        | 100       | ND           |
| Ethoprophos          | 30        | 100       | ND           | Pyrethrins         | 30        | 100       | ND           |
| Etofenprox           | 30        | 100       | ND           | Pyridaben          | 30        | 100       | ND           |
| Etoxazole            | 30        | 100       | ND           | Spinetoram         | 30        | 100       | ND           |
| Fenhexamid           | 30        | 100       | ND           | Spinosad           | 30        | 100       | ND           |
| Fenoxycarb           | 30        | 100       | ND           | Spiromesifen       | 30        | 100       | ND           |
| Fenpyroximate        | 30        | 100       | ND           | Spirotetramat      | 30        | 100       | ND           |
| Fipronil             | 30        | 100       | ND           | Spiroxamine        | 30        | 100       | ND           |
| Fludioxonil          | 30        | 100       | ND           | Tebuconazole       | 30        | 100       | ND           |
|                      |           |           |              | Thiacloprid        | 30        | 100       | ND           |
|                      |           |           |              | Thiamethoxam       | 30        | 100       | ND           |
|                      |           |           |              | Trifloxystrobin    | 30        | 100       | ND           |

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 CCO  
 Date: 09/13/2024



Tested By: Anthony Mattingly  
 Scientist  
 Date: 09/11/2024

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**Mycotoxins by LC-MS/MS**

| Analyte      | LOD (ppb) | LOQ (ppb) | Result (ppb) |
|--------------|-----------|-----------|--------------|
| B1           | 1         | 5         | ND           |
| B2           | 1         | 5         | ND           |
| G1           | 1         | 5         | ND           |
| G2           | 1         | 5         | ND           |
| Ochratoxin A | 1         | 5         | ND           |

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CCO  
Date: 09/13/2024

Tested By: Anthony Mattingly  
Scientist  
Date: 09/11/2024

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**Microbials by PCR and Plating**

| Analyte                              | LOD (CFU/g) | Result (CFU/g) | Result (Qualitative)    |
|--------------------------------------|-------------|----------------|-------------------------|
| Total aerobic count                  | 10          | 10.0           |                         |
| Total coliforms                      | 10          | ND             |                         |
| Generic E. coli                      | 10          | ND             |                         |
| Salmonella spp.                      | 1           |                | Not Detected per 1 gram |
| Shiga-toxin producing E. coli (STEC) | 1           |                | Not Detected per 1 gram |

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Generated By: Ryan Bellone  
CCO  
Date: 09/13/2024

  
Tested By: Jade Pinkston  
Microbiology Technician  
Date: 09/10/2024

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**Residual Solvents by HS-GC-MS**

| Analyte               | LOD (ppm) | LOQ (ppm) | Result (ppm) | Analyte                  | LOD (ppm) | LOQ (ppm) | Result (ppm) |
|-----------------------|-----------|-----------|--------------|--------------------------|-----------|-----------|--------------|
| Acetone               | 167       | 500       | ND           | Ethylene Oxide           | 0.5       | 1         | ND           |
| Acetonitrile          | 14        | 41        | ND           | Heptane                  | 167       | 500       | ND           |
| Benzene               | 0.5       | 1         | ND           | n-Hexane                 | 10        | 29        | ND           |
| Butane                | 167       | 500       | ND           | Isobutane                | 167       | 500       | ND           |
| 1-Butanol             | 167       | 500       | ND           | Isopropyl Acetate        | 167       | 500       | ND           |
| 2-Butanol             | 167       | 500       | ND           | Isopropyl Alcohol        | 167       | 500       | ND           |
| 2-Butanone            | 167       | 500       | ND           | Isopropylbenzene         | 167       | 500       | ND           |
| Chloroform            | 2         | 6         | ND           | Methanol                 | 100       | 300       | ND           |
| Cyclohexane           | 129       | 388       | ND           | 2-Methylbutane           | 10        | 29        | ND           |
| 1,2-Dichloroethane    | 0.5       | 1         | ND           | Methylene Chloride       | 20        | 60        | ND           |
| 1,2-Dimethoxyethane   | 4         | 10        | ND           | 2-Methylpentane          | 10        | 29        | ND           |
| Dimethyl Sulfoxide    | 167       | 500       | ND           | 3-Methylpentane          | 10        | 29        | ND           |
| N,N-Dimethylacetamide | 37        | 109       | ND           | n-Pentane                | 167       | 500       | ND           |
| 2,2-Dimethylbutane    | 10        | 29        | ND           | 1-Pentanol               | 167       | 500       | ND           |
| 2,3-Dimethylbutane    | 10        | 29        | ND           | n-Propane                | 167       | 500       | ND           |
| N,N-Dimethylformamide | 30        | 88        | ND           | 1-Propanol               | 167       | 500       | ND           |
| 2,2-Dimethylpropane   | 167       | 500       | ND           | Pyridine                 | 7         | 20        | ND           |
| 1,4-Dioxane           | 13        | 38        | ND           | Tetrahydrofuran          | 24        | 72        | ND           |
| Ethanol               | 167       | 500       | ND           | Toluene                  | 30        | 89        | ND           |
| 2-Ethoxyethanol       | 6         | 16        | ND           | Trichloroethylene        | 3         | 8         | ND           |
| Ethyl Acetate         | 167       | 500       | ND           | Xylenes (o-, m-, and p-) | 73        | 217       | ND           |
| Ethyl Ether           | 167       | 500       | ND           |                          |           |           |              |
| Ethylbenzene          | 3         | 7         | ND           |                          |           |           |              |

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Tested By: Kelsey Rogers  
 Scientist  
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