

## Comprehensive Analysis Report

### Sample Overview

**Client:** HempLucid

852 E 1910 S Unit 3, Provo, UT  
84606

**Date Received:** 07/17/2024

**Sample Name:** RAW-ORGFS-CBD

**APRC #:** HPL240717A

**Sample Matrix:** Concentrate

**Sample Lot:** LED-O-20862

| Assay                                                | Disposition | Date Tested |
|------------------------------------------------------|-------------|-------------|
| Hemp or R&D Cannabinoid Testing (Potency)            | Tested      | 07-18-2024  |
| Heavy Metals - Utah State Cannabis Panel             | Tested      | 07-23-2024  |
| Microbial: Quantitative and Pathogen Detection Combo | Tested      | 07-18-2024  |
| Pesticide Screen (APRC Panel)                        | Tested      | 07-18-2024  |
| Hemp or R&D Residual Solvents                        | Tested      | 07-19-2024  |
| Mycotoxin Quantitation                               | Tested      | 07-18-2024  |



Accreditation #115229

Aromatic Plant Research Center is an ISO 17025:2017 certified laboratory.

## Instrument Analysis Report

### Potency

Method: SOP 1-2026.03

Sample Name: RAW-ORGFS-CBD

APRC Lot Number: HPL240717A

| Cannabinoid                                                          | RT    | Total % | Total mg/g |
|----------------------------------------------------------------------|-------|---------|------------|
| Cannabidivarinic Acid (CBDVA)                                        | ND    | ND      | ND         |
| Cannabidivarin (CBDV)                                                | 2.38  | 0.40    | 4.04       |
| Cannabidiolic Acid (CBDA)                                            | 2.98  | 0.71    | 7.10       |
| Cannabigerolic Acid (CBGA)                                           | ND    | ND      | ND         |
| Cannabinol (CBN)                                                     | 5.36  | 0.18    | 1.80       |
| Cannabidiol (CBD)                                                    | 3.58  | 73.16   | 731.58     |
| Cannabigerol (CBG)                                                   | 3.37  | 0.95    | 9.51       |
| Tetrahydrocannabivarin (THCV)                                        | 3.99  | 0.12    | 1.19       |
| Tetrahydrocannabivarin Acid (THCVA)                                  | ND    | ND      | ND         |
| Delta-9-Tetrahydrocannabinol ( $\Delta^9$ -THC)                      | 6.78  | 1.71    | 17.06      |
| Delta-8-Tetrahydrocannabinol ( $\Delta^8$ -THC)                      | ND    | ND      | ND         |
| Tetrahydrocannabinolic acid (THCA-A)                                 | ND    | ND      | ND         |
| Cannabichromene (CBC)                                                | 8.55  | 2.41    | 24.09      |
| Cannabichromene Acid (CBCA)                                          | ND    | ND      | ND         |
| $\Delta^10$ and $\Delta^6a,10a$ -Tetrahydrocannabinol, mixed isomers | ND    | ND      | ND         |
| (6aR,9R)- $\Delta^10$ -Tetrahydrocannabidiol                         | NT    | NT      | NT         |
| (6aR,9S)- $\Delta^10$ -Tetrahydrocannabidiol                         | NT    | NT      | NT         |
| 9(R+S)- $\Delta^6a,10a$ -Tetrahydrocannabidiol                       | NT    | NT      | NT         |
| Cannabicitran (CBTC)                                                 | 13.71 | 0.75    | 7.54       |

Performed by: Sujan Timsina

Reviewed by: Riley Hunter

|                        | %     | mg/g   |
|------------------------|-------|--------|
| Total Cannabinoids     | 80.39 | 803.90 |
| Total THC <sup>t</sup> | 1.71  | 17.06  |
| Total CBD <sup>s</sup> | 73.78 | 737.81 |

<sup>t</sup>Total Thc is calculated by  $\Delta^9$ -THC + (THCA-A\*0.877)

<sup>s</sup>Total CBD is calculated by CBD + (CBDA\*0.877)

LOD > 0.005% by mass, LOQ > 0.01% by mass

## Instrument Analysis Report

### Heavy Metals

Method: CTLA

Sample Name: RAW-ORGFS-CBD

APRC Lot Number: HPL240717A

| Analyte | Result (ppm) | LOD (ppm) | Threshold (ppm) | Pass/Fail |
|---------|--------------|-----------|-----------------|-----------|
| Arsenic | 0.183        | 0.001     | 2.00            | Pass      |
| Cadmium | 0.022        | 0.001     | 0.82            | Pass      |
| Lead    | 0.168        | 0.001     | 1.20            | Pass      |
| Mercury | <0.001       | 0.001     | 0.40            | Pass      |

Heavy metal analysis is completed in partnership with Contract Testing Laboratories of America, Orem UT.

Performed by: CTLA

Reviewed by: William Deutschman

## Instrument Analysis Report

### Microbial Impurities

Method: SOP 1-2034.01 and 1-2035.01

Sample Name: RAW-ORGFS-CBD

APRC Lot Number: HPL240717A

| Total Counts           |                 |                |              |
|------------------------|-----------------|----------------|--------------|
| Microbial Group:       | Result (CFU/g): | Specification: | Disposition: |
| Total Aerobic Bacteria | <10             | ≤10,000        | Pass         |
| Total Yeast and Mold   | <10             | ≤1,000         | Pass         |

| Specific Organism Identification |              |                |              |
|----------------------------------|--------------|----------------|--------------|
| Microbial Organism:              | Result:      | Specification: | Disposition: |
| Aspergillus flavus               | NT           | NT             | Not Tested   |
| Aspergillus fumigatus            | NT           | NT             | Not Tested   |
| Aspergillus niger                | NT           | NT             | Not Tested   |
| Aspergillus terreus              | NT           | NT             | Not Tested   |
| E. coli                          | NT           | NT             | Not Tested   |
| STEC                             | Not Detected | Not Detected   | Pass         |
| Salmonella - Specific Gene       | NT           | NT             | Not Tested   |
| Staphylococcus aureus            | Not Detected | Not Detected   | Pass         |
| Pseudomonas aeruginosa           | Not Detected | Not Detected   | Pass         |

Performed by: Jordan Morley

Notes: Foreign Matter: Not Detected.

Reviewed by: Tessa Crook

## Instrument Analysis Report

### Pesticides

Method:

Sample Name: RAW-ORGFS-CBD

APRC Lot Number: HPL240717A

| Pesticide:          | Finding | Action Limit (µg/g) | Pass/Fail |
|---------------------|---------|---------------------|-----------|
| Abamectin           | ND      | 0.5                 | Pass      |
| Acephate            | ND      | 0.4                 | Pass      |
| Acequinocyl         | ND      | 2.0                 | Pass      |
| Acetamiprid         | ND      | 0.2                 | Pass      |
| Aldicarb            | ND      | 0.4                 | Pass      |
| Azoxystrobin        | ND      | 0.2                 | Pass      |
| Bifenazate          | ND      | 0.2                 | Pass      |
| Bifenthrin          | ND      | 0.2                 | Pass      |
| Boscalid            | ND      | 0.4                 | Pass      |
| Carbaryl            | ND      | 0.2                 | Pass      |
| Carbofuran          | ND      | 0.2                 | Pass      |
| Chlorantraniliprole | ND      | 0.2                 | Pass      |
| Chlorfenapyr        | ND      | 1.0                 | Pass      |
| Chlorpyrifos        | ND      | 0.2                 | Pass      |
| Clofentezine        | ND      | 0.2                 | Pass      |
| Cyfluthrin          | ND      | 1.0                 | Pass      |
| Cypermethrin        | ND      | 1.0                 | Pass      |
| Daminozide          | ND      | 1.0                 | Pass      |
| Dichlorvos          | ND      | 0.1                 | Pass      |
| Diazinon            | ND      | 0.2                 | Pass      |
| Dimethoate          | ND      | 0.2                 | Pass      |
| Ethoprophos         | ND      | 0.2                 | Pass      |
| Etofenprox          | ND      | 0.4                 | Pass      |
| Etoxazole           | ND      | 0.2                 | Pass      |
| Fenoxycarb          | ND      | 0.2                 | Pass      |
| Fenpyroximate       | ND      | 0.4                 | Pass      |
| Fipronil            | ND      | 0.4                 | Pass      |
| Fonicamid           | ND      | 1.0                 | Pass      |
| Fludioxonil         | ND      | 0.4                 | Pass      |

| Pesticide:        | Finding | Action Limit (µg/g) | Pass/Fail |
|-------------------|---------|---------------------|-----------|
| Hexythiazon       | ND      | 1.0                 | Pass      |
| Imazal            | ND      | 0.2                 | Pass      |
| Imidacloprid      | ND      | 0.4                 | Pass      |
| Kresoxim-methyl   | ND      | 0.4                 | Pass      |
| Malathion A       | ND      | 0.2                 | Pass      |
| Metalaxyl         | ND      | 0.2                 | Pass      |
| Methiocarb        | ND      | 0.2                 | Pass      |
| Methomyl          | ND      | 0.4                 | Pass      |
| Methylparathion   | ND      | 0.2                 | Pass      |
| MGK-264           | ND      | 0.2                 | Pass      |
| Myclobutanil      | ND      | 0.2                 | Pass      |
| Naled             | ND      | 0.5                 | Pass      |
| Oxamyl            | ND      | 1.0                 | Pass      |
| Paclobutrazol     | ND      | 0.4                 | Pass      |
| Permethrins       | ND      | 0.2                 | Pass      |
| Phosmet           | ND      | 0.2                 | Pass      |
| Piperonylbutoxide | ND      | 2.0                 | Pass      |
| Prallethrin       | ND      | 0.2                 | Pass      |
| Propiconazole     | ND      | 0.4                 | Pass      |
| Propoxur          | ND      | 0.2                 | Pass      |
| Pyrethrin         | ND      | 1.0                 | Pass      |
| Pyridaben         | ND      | 0.2                 | Pass      |
| Spinosad          | ND      | 0.2                 | Pass      |
| Spinetoram        | ND      | 0.1                 | Pass      |
| Spirotetramat     | ND      | 0.2                 | Pass      |
| Spiroxamine       | ND      | 0.4                 | Pass      |
| Tebuconazole      | ND      | 0.4                 | Pass      |
| Thiacloprid       | ND      | 0.2                 | Pass      |
| Thiamethoxam      | ND      | 0.2                 | Pass      |
| Trifloxystrobin   | ND      | 0.2                 | Pass      |

Performed by: Nicholas Saichek

Reviewed by: William Deutschman

Pesticide testing performed in a non-ISO 17025:2017 accredited facility. Pass/Fail determinations based on Utah Administrative Rule R68-29.

## Instrument Analysis Report

### Residual Solvents

Method: SOP 1-2027.03

Sample Name: RAW-ORGFS-CBD

APRC Lot Number: HPL240717A

| Residual Solvent      | Finding (µg/g) | Action Level (µg/g) | Pass/Fail |
|-----------------------|----------------|---------------------|-----------|
| Dimethyl sulfoxide    | ND             | 5000                | Pass      |
| N,N-dimethylacetamide | ND             | 1090                | Pass      |
| 1,2 Dimethoxyethane   | ND             | 100                 | Pass      |
| 1,4 Dioxane           | ND             | 380                 | Pass      |
| 1-Butanol             | ND             | 5000                | Pass      |
| 1-Pentanol            | ND             | 5000                | Pass      |
| 1-Propanol            | ND             | 5000                | Pass      |
| 2-Butanone            | ND             | 5000                | Pass      |
| 2-Butanol             | ND             | 5000                | Pass      |
| 2-Ethoxyethanol       | ND             | 160                 | Pass      |
| 2-Methylbutane        | ND             | 5000                | Pass      |
| 2-Propanol            | ND             | 5000                | Pass      |
| Acetone               | ND             | 5000                | Pass      |
| Acetonitrile          | ND             | 410                 | Pass      |
| Benzene               | ND             | 2                   | Pass      |
| Butane                | ND             | 5000                | Pass      |
| Cumene                | ND             | 70                  | Pass      |
| Cyclohexane           | ND             | 3880                | Pass      |
| Dichloromethane       | ND             | 600                 | Pass      |
| 2,2-Dimethylbutane    | ND             | 290                 | Pass      |
| 2,3-Dimethylbutane    | ND             | 290                 | Pass      |
| m,p-Xylene            | ND             | See Total Xylenes   | Pass      |
| o-Xylene              | ND             | See Total Xylenes   | Pass      |
| Ethanol               | ND             | 5000                | Pass      |
| Ethyl Acetate         | ND             | 5000                | Pass      |
| Ethyl Benzene         | ND             | See Total Xylenes   | Pass      |
| Ethyl Ether           | ND             | 5000                | Pass      |
| Ethylene Glycol       | ND             | 620                 | Pass      |
| Ethylene Oxide        | ND             | 50                  | Pass      |

| Residual Solvent      | Finding (µg/g) | Action Level (µg/g) | Pass/Fail |
|-----------------------|----------------|---------------------|-----------|
| Heptane               | ND             | 5000                | Pass      |
| Hexane                | ND             | 290                 | Pass      |
| Isopropyl Acetate     | ND             | 5000                | Pass      |
| Methanol              | ND             | 3000                | Pass      |
| Methylpropane         | ND             | 5000                | Pass      |
| 2-Methylpentane       | ND             | 290                 | Pass      |
| 3-Methylpentane       | ND             | 290                 | Pass      |
| N,N-Dimethylformamide | ND             | 880                 | Pass      |
| Pentane               | ND             | 5000                | Pass      |
| Propane               | ND             | 5000                | Pass      |
| Pyridine              | ND             | 100                 | Pass      |
| Sulfolane             | ND             | 160                 | Pass      |
| Tetrahydrofuran       | ND             | 720                 | Pass      |
| Toluene               | ND             | 890                 | Pass      |
| Total Xylenes         | ND             | 2170                | Pass      |

† Per Utah state code 4-41a-701(3) Section R68-29-6

‡ Total Xylenes is a combination of the following: o-Xylene, m-Xylene, p-Xylene, and Ethylbenzene

Overall Disposition: Pass  
Performed By: Anil Rokaya  
Reviewed By: Riley Hunter

## Instrument Analysis Report

### Mycotoxins

Method: Mycotoxin

Sample Name: RAW-ORGFS-CBD

APRC Lot Number: HPL240717A

| Mycotoxin         | Finding (µg/kg) | Limit(µg/kg) | Pass/Fail |
|-------------------|-----------------|--------------|-----------|
| Aflatoxin B1:     | ND              |              |           |
| Aflatoxin B2:     | ND              |              |           |
| Aflatoxin G1:     | ND              |              |           |
| Aflatoxin G2:     | ND              |              |           |
| Total Aflatoxins: | 0               | 20           | Pass      |
| Ochratoxin A:     | ND              | 20           | Pass      |

Performed by: Nicholas Saichek

Reviewed by: William Deutschman



**Approved By:**

William A. Deutschman, Ph.D.  
Laboratory Director - APRC Lehi  
07/25/2024

Mycotoxin testing performed in a non-ISO 17025:2017 accredited facility. Pass/Fail determinations based on Utah Administrative Rule R68-29.