

## Certificate of Analysis

For R&D Use Only - Not a California Compliance Certificate.

**D**



**Total CBD**

**ND**

**Total THC**

**87.34 %**

**Total Cannabinoids**

**99.57 %**

### Analysis Summary

|                                          |      |
|------------------------------------------|------|
| Residual Pesticides                      | Pass |
| Residual Solvents & Processing Chemicals | Pass |
| Mycotoxins                               | Pass |
| Heavy Metals                             | Pass |
| Microbial Impurities                     | Pass |

**Sample Name:**

D

**Matrix:**

Concentrate

**Unit Mass:**

1 g per unit

**Sample ID:**

**Date Received:**

9/6/2024



Approved By:

Marie True, M.S.

Laboratory Manager

This certificate of analysis is responsible for the tested sample only and is for research and development (R&D) use only. This certificate of analysis shall not be reproduced, except in its entirety, without the written approval of FESA Labs. FESA Labs shall not be liable for any damage that may result from the data contained herein in any way. FESA Labs makes no claim to the efficacy, safety or other risks associated with any detected or non-detected amounts of any substances reported herein. If there are any questions with this report please email [info@fesalabs.com](mailto:info@fesalabs.com). This certificate of analysis is intended only for the use of the party to whom it is addressed and may contain information that is confidential or protected from disclosure under applicable law. If you have received this document in error, please immediately contact us.

**References:** limit of detection (LOD), limit of quantitation (LOQ), not detected (ND), not tested (NT)

FESA Labs

2002 South Grand Avenue Suite A  
Santa Ana, CA 92705  
(714) 540-0172

Page 1 of 5

9/12/2024 19:11:06

# Certificate of Analysis

For R&D Use Only - Not a California Compliance Certificate.

## Cannabinoid Analysis

Complete

| Analyte            | LOD (%) | LOQ (%) | Mass (%) | Mass (mg/g) |
|--------------------|---------|---------|----------|-------------|
| CBDV               | 0.0035  | 0.011   | ND       | ND          |
| CBD                | 0.0030  | 0.0090  | ND       | ND          |
| CBG                | 0.0038  | 0.011   | ND       | ND          |
| CBDA               | 0.0017  | 0.0052  | ND       | ND          |
| CBN                | 0.00080 | 0.0024  | ND       | ND          |
| Delta 9-THC        | 0.0022  | 0.0067  | ND       | ND          |
| Delta 8-THC        | 0.0020  | 0.0059  | ND       | ND          |
| CBC                | 0.00070 | 0.0021  | ND       | ND          |
| THCA               | 0.0024  | 0.0073  | 99.412   | 994.124     |
| Total CBD          |         |         | ND       | ND          |
| Total THC          |         |         | 87.34    | 873.442     |
| Total Cannabinoids |         |         | 99.57    | 995.719     |

Date Tested: 9/6/2024

Total THC = THCa \* 0.877 + d9-THC + d8-THC

Total CBD = CBDa \* 0.877 + CBD

## Pesticide Analysis

Pass

| Analyte             | LOQ (ppm) | Limit (ppm) | Mass (ppm) | Status |
|---------------------|-----------|-------------|------------|--------|
| Abamectin           | 0.050     | 0.10        | ND         | Pass   |
| Acephate            | 0.050     | 0.10        | ND         | Pass   |
| Acequinocyl         | 0.050     | 0.10        | ND         | Pass   |
| Acetamiprid         | 0.050     | 0.10        | ND         | Pass   |
| Aldicarb            | 0.050     | 0.00        | ND         | Pass   |
| Azoxystrobin        | 0.050     | 0.10        | ND         | Pass   |
| Bifenazate          | 0.050     | 0.10        | ND         | Pass   |
| Bifenthrin          | 0.050     | 3.00        | ND         | Pass   |
| Boscalid            | 0.050     | 0.10        | ND         | Pass   |
| Captan              | 0.050     | 0.70        | ND         | Pass   |
| Carbaryl            | 0.050     | 0.50        | ND         | Pass   |
| Carbofuran          | 0.050     | 0.00        | ND         | Pass   |
| Chlorantraniliprole | 0.050     | 10.00       | ND         | Pass   |
| Chlordane           | 0.050     | 0.00        | ND         | Pass   |
| Chlorfenapyr        | 0.050     | 0.00        | ND         | Pass   |
| Chlorpyrifos        | 0.050     | 0.00        | ND         | Pass   |
| Clofentezine        | 0.050     | 0.10        | ND         | Pass   |
| Coumaphos           | 0.050     | 0.00        | ND         | Pass   |
| Cyfluthrin          | 0.050     | 2.00        | ND         | Pass   |
| Cypermethrin        | 0.050     | 1.00        | ND         | Pass   |
| Daminozide          | 0.050     | 0.00        | ND         | Pass   |
| DDVP                | 0.050     | 0.00        | ND         | Pass   |
| Diazinon            | 0.050     | 0.10        | ND         | Pass   |
| Dimethoate          | 0.050     | 0.00        | ND         | Pass   |
| Dimethomorph        | 0.050     | 2.00        | ND         | Pass   |
| Ethoprophos         | 0.050     | 0.00        | ND         | Pass   |
| Etofenprox          | 0.050     | 0.00        | ND         | Pass   |
| Etoxazole           | 0.050     | 0.10        | ND         | Pass   |
| Fenhexamid          | 0.050     | 0.10        | ND         | Pass   |
| Fenoxycarb          | 0.050     | 0.00        | ND         | Pass   |
| Fenpyroximate       | 0.050     | 0.10        | ND         | Pass   |
| Fipronil            | 0.050     | 0.00        | ND         | Pass   |
| Flonicamid          | 0.050     | 0.10        | ND         | Pass   |
| Fludioxonil         | 0.050     | 0.10        | ND         | Pass   |

# Certificate of Analysis

For R&D Use Only - Not a California Compliance Certificate.

## Pesticide Analysis

Pass

| Analyte                 | LOQ (ppm) | Limit (ppm) | Mass (ppm) | Status |
|-------------------------|-----------|-------------|------------|--------|
| Hexythiazox             | 0.050     | 0.10        | ND         | Pass   |
| Imazalil                | 0.050     | 0.00        | ND         | Pass   |
| Imidacloprid            | 0.050     | 5.00        | ND         | Pass   |
| Kresoxim Methyl         | 0.050     | 0.10        | ND         | Pass   |
| Malathion               | 0.050     | 0.50        | ND         | Pass   |
| Metalaxyl               | 0.050     | 2.00        | ND         | Pass   |
| Methiocarb              | 0.050     | 0.00        | ND         | Pass   |
| Methomyl                | 0.050     | 1.00        | ND         | Pass   |
| Methyl Parathion        | 0.050     | 0.00        | ND         | Pass   |
| Mevinphos               | 0.050     | 0.00        | ND         | Pass   |
| Myclobutanil            | 0.050     | 0.10        | ND         | Pass   |
| Naled                   | 0.050     | 0.10        | ND         | Pass   |
| Oxamyl                  | 0.050     | 0.50        | ND         | Pass   |
| Paclobutrazol           | 0.050     | 0.00        | ND         | Pass   |
| Pentachloronitrobenzene | 0.050     | 0.10        | ND         | Pass   |
| Permethrin              | 0.050     | 0.50        | ND         | Pass   |
| Phosmet                 | 0.050     | 0.10        | ND         | Pass   |
| Piperonyl Butoxide      | 0.050     | 3.00        | ND         | Pass   |
| Prallethrin             | 0.050     | 0.10        | ND         | Pass   |
| Propiconazole           | 0.050     | 0.10        | ND         | Pass   |
| Propoxur                | 0.050     | 0.00        | ND         | Pass   |
| Pyrethrins              | 0.050     | 0.50        | ND         | Pass   |
| Pyridaben               | 0.050     | 0.10        | ND         | Pass   |
| Spinetoram              | 0.050     | 0.10        | ND         | Pass   |
| Spinosad                | 0.050     | 0.10        | ND         | Pass   |
| Spiromesifen            | 0.050     | 0.10        | ND         | Pass   |
| Spirotetramat           | 0.050     | 0.10        | ND         | Pass   |
| Spiroxamine             | 0.050     | 0.00        | ND         | Pass   |
| Tebuconazole            | 0.050     | 0.10        | ND         | Pass   |
| Thiacloprid             | 0.050     | 0.00        | ND         | Pass   |
| Thiamethoxam            | 0.050     | 5.00        | ND         | Pass   |
| Trifloxystrobin         | 0.050     | 0.10        | ND         | Pass   |

Date Tested: 9/12/2024

# Certificate of Analysis

For R&D Use Only - Not a California Compliance Certificate.

## Residual Solvents Analysis

Pass

| Analyte            | LOQ (µg/g) | Limit (µg/g) | Mass (µg/g) | Status |
|--------------------|------------|--------------|-------------|--------|
| Acetone            | 100        | 5000         | ND          | Pass   |
| Acetonitrile       | 100        | 410          | ND          | Pass   |
| Benzene            | 1          | 1            | ND          | Pass   |
| Butane             | 100        | 5000         | ND          | Pass   |
| Chloroform         | 1          | 1            | ND          | Pass   |
| 1,2-Dichloroethane | 1          | 1            | ND          | Pass   |
| Ethanol            | 100        | 5000         | ND          | Pass   |
| Ethyl Acetate      | 100        | 5000         | ND          | Pass   |
| Ethyl Ether        | 100        | 5000         | ND          | Pass   |
| Ethylene Oxide     | 1          | 1            | ND          | Pass   |
| Heptane            | 100        | 5000         | ND          | Pass   |
| n-Hexane           | 100        | 290          | ND          | Pass   |
| Isopropanol        | 100        | 5000         | ND          | Pass   |
| Methanol           | 100        | 3000         | ND          | Pass   |
| Methylene Chloride | 1          | 1            | ND          | Pass   |
| Pentane            | 100        | 5000         | 130.05      | Pass   |
| Propane            | 100        | 5000         | ND          | Pass   |
| Toluene            | 100        | 890          | ND          | Pass   |
| Trichloroethylene  | 1          | 1            | ND          | Pass   |
| Xylenes            | 100        | 2170         | ND          | Pass   |

Date Tested: 9/9/2024

## Mycotoxins

Pass

| Analyte      | LOQ (µg/g) | Limit (µg/g) | Mass (µg/g) | Status |
|--------------|------------|--------------|-------------|--------|
| Aflatoxin B1 | 0.02       | 0.02         | ND          | Pass   |
| Aflatoxin B2 | 0.02       | 0.02         | ND          | Pass   |
| Aflatoxin G1 | 0.02       | 0.02         | ND          | Pass   |
| Aflatoxin G2 | 0.02       | 0.02         | ND          | Pass   |
| Ochratoxin A | 0.02       | 0.02         | ND          | Pass   |

Date Tested: 9/12/2024

## Heavy Metals Analysis

Pass

| Analyte | LOQ (µg/g) | Limit (µg/g) | Mass (µg/g) | Status |
|---------|------------|--------------|-------------|--------|
| Arsenic | 0.050      | 0.200        | ND          | Pass   |
| Cadmium | 0.050      | 0.200        | ND          | Pass   |
| Lead    | 0.125      | 0.500        | ND          | Pass   |
| Mercury | 0.025      | 0.100        | ND          | Pass   |

Date Tested: 9/10/2024

# Certificate of Analysis

For R&D Use Only - Not a California Compliance Certificate.

## Microbial Analysis

Pass

| Test                                          | Result (CFU/g) | Status |
|-----------------------------------------------|----------------|--------|
| <i>Aspergillus flavus</i>                     | Absent / 1g    | Pass   |
| <i>Aspergillus fumigatus</i>                  | Absent / 1g    | Pass   |
| <i>Aspergillus niger</i>                      | Absent / 1g    | Pass   |
| <i>Aspergillus terreus</i>                    | Absent / 1g    | Pass   |
| Shiga-toxin producing <i>Escherichia coli</i> | Absent / 1g    | Pass   |
| <i>Salmonella</i>                             | Absent / 1g    | Pass   |

Date Tested: 9/11/2024  
CFU = Colony Forming Units

### Method References:

### Testing Location

#### Cannabinoid Profile (UNODC)

FESA Labs - Santa Ana, CA

Official Methods of Analysis, Method 2018.11.AOAC INTERNATIONAL (modified), Lukas Vaclavik, Frantisek Benes, Alex Krmela, Veronika Svobodova, Jana Hajsolva, and Katerina Mastovska, "Quantification of Cannabinoids in Cannabis Dried Plant Materials, Concentrates, and Oils Liquid Chromatography-Diode Array Detection Technique with Optional Mass Spectrometric Detection," First Action Method, Journal of AOAC International, Future Issue

United Nations Office on Drugs and Crime - Recommended methods for identification and analysis of cannabis and cannabis products

#### Multi-Residue Pesticide Analysis - (AOAC\_200701)

FESA Labs - Santa Ana, CA

Official Methods of Analysis, AOAC Official Method 2007.01, Pesticide Residues in Foods by Acetonitrile Extraction and Partitioning with Magnesium Sulfate, AOAC INTERNATIONAL (modified).

CEN Standard Method EN 15662: Food of plant origin - Determination of pesticide residues using GC-MS and/or LC-MS/MS following acetonitrile extraction/partitioning and clean-up by dispersive SPE - QuEChERS method.

#### Residual Solvents Analysis - 20 compounds (USP\_467)

FESA Labs - Santa Ana, CA

USP current revision, Chapter 62.  
United States Pharmacopeia, 38nd Rev. - National Formulary 33th Ed., Method <467>, USP Convention, Inc., Rockville, MD (2015) (modified).

#### Mycotoxins Analysis - 5 compounds (FDA\_MYC)

FESA Labs - Santa Ana, CA

Determination of Mycotoxins in Corn, Peanut Butter and Wheat Flour Using Stable Isotope Dilution Assay (SIDA) and Liquid Chromatography-Tandem Mass Spectrometry (LC-MS/MS) (modified).

#### Heavy Metals Analysis - 4 elements (EPA\_200.8)

FESA Labs - Santa Ana, CA

Methods for the Determination of Metals in Environmental Standards - Supplement 1, EPA-600/R-94-111, May 1994.

"Determination of Metals and Trace Elements in Water and Wastes by Inductively Coupled Plasma-Mass Spectrometry", USEPA Method 200.8, Revision 5.1, EMMC Version (modified).

#### Microbial Analysis - (FDABAM\_4A\_5\_18)

FESA Labs - Santa Ana, CA

U.S. Food and Drug Administration, Bacteriological Analytical Manual, Chapter 4A, Diarrheagenic *Escherichia coli*; Chapter 5, *Salmonella*; Chapter 18, Yeasts, Molds and Mycotoxins (modified).

### Testing Location:

FESA Labs  
2002 S. Grand Ave., Suite A  
Santa Ana, CA 92705  
(714) 540-0172  
[www.fesalabs.com](http://www.fesalabs.com)