



# Certificate of Analysis

OFFICIAL CDPHE COMPLIANCE

1 of 3

ICAL ID: CO 20211201-001  
Sample: CA211130-022-030  
CBD Isolate- EGI28521A  
Strain: CBD Isolate- EGI28521A  
Category: Concentrates & Extracts

EcoGen BioSciences  
Lic. #  
81668 B50 Rd  
Delta, CO 81416  
Lic. #

Batch#: EGI28521A  
Primary Size:  
Batch Size:  
Collected: 12/07/2021; Received: 12/07/2021  
Completed: 12/07/2021

|  |                 |                     |                              |                      |
|--|-----------------|---------------------|------------------------------|----------------------|
| Moisture<br>NT<br>Water Activity<br>NT | Total THC<br>ND | Total CBD<br>99.49% | Total Cannabinoids<br>99.93% | Total Terpenes<br>NT |
|--|-----------------|---------------------|------------------------------|----------------------|

| Summary           | SOP Used  | Date Tested |      |
|-------------------|---|-------------|------|
| Batch             |   |             | Pass |
| Cannabinoids      | CO-POT-PREP-001 High                                  | 12/01/2021  | Pass |
| Residual Solvents | CO-RS-PREP-001  | 12/01/2021  | Pass |
| Microbials        | MIC-002 / MIC-004B                                    | 12/07/2021  | Pass |
| Mycotoxins        | CO-PESTMYCO-LC-PREP-                                  | 12/03/2021  | Pass |
| Heavy Metals      | 001 CO-HM-PREP-001                                    | 12/02/2021  | Pass |
| Pesticides        | CO-PESTMYCO-LC-PREP-<br>001 / CO-PEST-GC-PREP-<br>001 | 12/02/2021  | Pass |



Scan to see results

## Cannabinoid Profile

| Analyte | LOQ (mg/g) | LOD (mg/g) | %     | mg/g  | Analyte   | LOQ (mg/g) | LOD (mg/g) | %     | mg/g  |
|---------|------------|------------|-------|-------|-----------|------------|------------|-------|-------|
| THCa    | 0.5060     | 0.1271     | ND    | ND    | CBDV      | 0.5060     | 0.0579     | 0.45  | 4.5   |
| Δ9-THC  | 0.5060     | 0.1408     | ND    | ND    | CBN       | 0.5060     | 0.1073     | ND    | ND    |
| Δ8-THC  | 0.5060     | 0.0695     | ND    | ND    | CBGa      | 0.5452     | 0.1817     | ND    | ND    |
| THCV    | 0.5060     | 0.0582     | ND    | ND    | CBG       | 0.5390     | 0.1797     | <LOQ  | <1    |
| CBDa    | 0.5060     | 0.1307     | ND    | ND    | CBC       | 0.6255     | 0.2085     | ND    | ND    |
| CBD     | 0.5060     | 0.1121     | 99.49 | 994.9 | Total THC |            |            | ND    | ND    |
|         |            |            |       |       | Total CBD |            |            | 99.49 | 994.9 |
|         |            |            |       |       | Total     |            |            | 99.93 | 999.3 |

Total THC=THCa \* 0.877 + d9-THC; Total CBD = CBDa \* 0.877 + CBD. NR= Not Reported, ND= Not Detected. Potency is reported on a dry weight basis. Instrumentation and analysis SOPs used: Cannabinoids:UHPLC-DAD(POT-INST-005),Moisture:Moisture Analyzer(MOISTURE-001). The measurement of uncertainty for total THC concentration is ± 0.009%.

## Terpene Profile

| Analyte | LOQ | LOD | % | mg/g | Analyte | LOQ | LOD | % | mg/g |
|---------|-----|-----|---|------|---------|-----|-----|---|------|
|---------|-----|-----|---|------|---------|-----|-----|---|------|

NR= Not Reported (no analysis was performed), ND= Not Detected (the concentration is less than the Limit of Detection (LOD)). Analytical instrumentation used: HS-GC-MS; samples analyzed according to SOP CO-TERP-INST-003.



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*Josh M Swider*

Josh Swider  
Lab Director, Managing Partner  
12/07/2021

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This product has been tested by Infinite Chemical Analysis Labs, LLC using validated testing methods and a quality control system as required by state law. Sample processing and testing was performed in accordance with CDPHE Colorado Wholesale Food, Industrial Hemp, and Shellfish Regulations (6 CCR 1010-21). Values reported relate only to the product tested. Infinite Chemical Analysis Labs, LLC makes no claims pertaining to the efficacy, safety, or other risks associated with any detected or non-detected levels of any compounds reported herein. This Certificate shall not be reproduced except in full without the written approval of Infinite Chemical Analysis Labs, LLC.



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## Residual Solvent Analysis

| Category 1          | LOQ  | LOD    | Limit  | Status | Category 2 | LOQ           | LOD  | Limit   | Status  | Category 2 | LOQ  | LOD         | Limit | Status  |        |      |      |
|---------------------|------|--------|--------|--------|------------|---------------|------|---------|---------|------------|------|-------------|-------|---------|--------|------|------|
|                     | µg/g | µg/g   | µg/g   | µg/g   |            | µg/g          | µg/g | µg/g    | µg/g    |            | µg/g | µg/g        | µg/g  | µg/g    |        |      |      |
| 1,2-Dichloro-Ethane | ND   | 0.5091 | 0.1697 | 1      | Pass       | Acetone       | <LOQ | 51.2457 | 17.0819 | 5000       | Pass | n-Hexane    | ND    | 0.2807  | 0.0659 | 290  | Pass |
| Benzene             | ND   | 0.0639 | 0.0213 | 1      | Pass       | Acetonitrile  | ND   | 0.3593  | 0.1198  | 410        | Pass | Isopropanol | ND    | 3.8401  | 1.28   | 5000 | Pass |
| Chloroform          | ND   | 0.1084 | 0.0361 | 1      | Pass       | Butane        | ND   | 4.8491  | 0.9709  | 5000       | Pass | Methanol    | ND    | 8.9165  | 2.9722 | 3000 | Pass |
| Ethylene Oxide      | ND   | 0.5787 | 0.1529 | 1      | Pass       | Ethanol       | ND   | 7.8434  | 2.6145  | 5000       | Pass | Pentane     | ND    | 4.2706  | 0.9619 | 5000 | Pass |
| Methylene-Chloride  | ND   | 0.7288 | 0.1267 | 1      | Pass       | Ethyl-Acetate | ND   | 2.2878  | 0.3125  | 5000       | Pass | Propane     | ND    | 13.3022 | 4.4341 | 5000 | Pass |
| Trichloroethene     | ND   | 0.1454 | 0.0179 | 1      | Pass       | Ethyl-Ether   | ND   | 3.5475  | 1.1825  | 5000       | Pass | Toluene     | ND    | 0.8637  | 0.0882 | 890  | Pass |
|                     |      |        |        |        |            | Heptane       | 34.3 | 2.8588  | 0.6866  | 5000       | Pass | Xylenes     | ND    | 0.857   | 0.1007 | 2170 | Pass |

NR= Not Reported (no analysis was performed), ND= Not Detected (the concentration is less than the Limit of Detection (LOD)). Analytical instrumentation used: HS-GC-MS; samples analyzed according to SOP CO-RS-INST-003.

## Heavy Metal Screening

|         | LOQ   | LOD   | Limit | Status |
|---------|-------|-------|-------|--------|
|         | µg/g  | µg/g  | µg/g  |        |
| Arsenic | ND    | 0.009 | 0.003 | Pass   |
| Cadmium | 0.002 | 0.002 | 0.001 | Pass   |
| Lead    | ND    | 0.004 | 0.001 | Pass   |
| Mercury | ND    | 0.014 | 0.005 | Pass   |

NR= Not Reported (no analysis was performed), ND= Not Detected (the concentration is less than the Limit of Detection (LOD)). Analytical instrumentation used: ICP-MS; samples analyzed according to SOP CO-HM-INST-003.

## Microbiological Screening

|                           | Limit | Result       | Status |
|---------------------------|-------|--------------|--------|
|                           | CFU/g | CFU/g        |        |
| Salmonella SPP            |       | Not Detected | Pass   |
| STEC                      |       | Not Detected | Pass   |
| Total Coliforms           | 100   | ND           | Pass   |
| Total Aerobic Plate Count | 10000 | ND           | Pass   |
| Total Yeast and Mold      | 1000  | ND           | Pass   |

ND=Not Detected. Analytical instrumentation used:qPCR and microbial plating; samples analyzed according to SOPs MIC-002 and MIC-004B at Infinite Chemical Analysis Labs, Michigan (4400 Ann Arbor Rd, Jackson, MI 49202).



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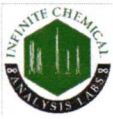
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## Chemical Residue Screening

| Category 1       | LOQ  | LOD   | Status | Mycotoxins | LOQ              | LOD   | Limit | Status |        |      |
|------------------|------|-------|--------|------------|------------------|-------|-------|--------|--------|------|
|                  | µg/g | µg/g  | µg/g   |            | µg/kg            | µg/kg | µg/kg | µg/kg  |        |      |
| Aldicarb         | ND   | 0.030 | 0.010  | Pass       | B1               | ND    | 8.98  | 2.96   | Tested |      |
| Carbofuran       | ND   | 0.010 | 0.005  | Pass       | B2               | ND    | 10.17 | 3.36   | Tested |      |
| Chlorfenapyr     | ND   | 0.024 | 0.008  | Pass       | G1               | ND    | 5.25  | 1.73   | Tested |      |
| Chlorpyrifos     | ND   | 0.075 | 0.010  | Pass       | G2               | ND    | 6.26  | 2.07   | Tested |      |
| Coumaphos        | ND   | 0.010 | 0.005  | Pass       | Ochratoxin A     | ND    | 13.37 | 4.41   | 20     | Pass |
| Daminozide       | ND   | 0.075 | 0.050  | Pass       | Total Aflatoxins | ND    |       |        | 20     | Pass |
| Dichlorvos       | ND   | 0.050 | 0.020  | Pass       |                  |       |       |        |        |      |
| Dimethoate       | ND   | 0.010 | 0.005  | Pass       |                  |       |       |        |        |      |
| Ethoprophos      | ND   | 0.010 | 0.005  | Pass       |                  |       |       |        |        |      |
| Etofenprox       | ND   | 0.030 | 0.010  | Pass       |                  |       |       |        |        |      |
| Fenoxycarb       | ND   | 0.010 | 0.005  | Pass       |                  |       |       |        |        |      |
| Fipronil         | ND   | 0.010 | 0.005  | Pass       |                  |       |       |        |        |      |
| Imazalil         | ND   | 0.010 | 0.005  | Pass       |                  |       |       |        |        |      |
| Methiocarb       | ND   | 0.010 | 0.005  | Pass       |                  |       |       |        |        |      |
| Mevinphos        | ND   | 0.025 | 0.010  | Pass       |                  |       |       |        |        |      |
| MGK-264          | ND   | 0.006 | 0.005  | Pass       |                  |       |       |        |        |      |
| Paclobutrazol    | ND   | 0.010 | 0.005  | Pass       |                  |       |       |        |        |      |
| Parathion Methyl | ND   | 0.026 | 0.009  | Pass       |                  |       |       |        |        |      |
| Propoxur         | ND   | 0.010 | 0.005  | Pass       |                  |       |       |        |        |      |
| Spiroxamine      | ND   | 0.030 | 0.020  | Pass       |                  |       |       |        |        |      |
| Thiacloprid      | ND   | 0.010 | 0.005  | Pass       |                  |       |       |        |        |      |

| Category 2          | LOQ  | LOD   | Limit | Status | Category 2 | LOQ                     | LOD  | Limit | Status |       |      |
|---------------------|------|-------|-------|--------|------------|-------------------------|------|-------|--------|-------|------|
|                     | µg/g | µg/g  | µg/g  | µg/g   |            | µg/g                    | µg/g | µg/g  | µg/g   |       |      |
| Abamectin           | ND   | 0.100 | 0.050 | 0.25   | Pass       | Kresoxim Methyl         | ND   | 0.030 | 0.010  | 0.15  | Pass |
| Acephate            | ND   | 0.030 | 0.010 | 0.05   | Pass       | Malathion               | ND   | 0.010 | 0.005  | 0.01  | Pass |
| Acequinocyl         | ND   | 0.075 | 0.020 | 0.075  | Pass       | Metaxyl                 | ND   | 0.010 | 0.005  | 0.01  | Pass |
| Acetamiprid         | ND   | 0.030 | 0.010 | 0.05   | Pass       | Methomyl                | ND   | 0.025 | 0.010  | 0.025 | Pass |
| Azoxystrobin        | ND   | 0.010 | 0.005 | 0.01   | Pass       | Myclobutanil            | ND   | 0.010 | 0.005  | 0.01  | Pass |
| Bifenazate          | ND   | 0.010 | 0.005 | 0.01   | Pass       | Naled                   | ND   | 0.030 | 0.020  | 0.03  | Pass |
| Bifenthrin          | ND   | 0.030 | 0.005 | 0.03   | Pass       | Oxamyl                  | ND   | 0.030 | 0.020  | 1.5   | Pass |
| Boscalid            | ND   | 0.010 | 0.005 | 0.01   | Pass       | Pentachloronitrobenzene | ND   | 0.016 | 0.005  | 0.016 | Pass |
| Carbaryl            | ND   | 0.025 | 0.010 | 0.025  | Pass       | Permethrin              | ND   | 0.030 | 0.020  | 0.03  | Pass |
| Chlorantraniliprole | ND   | 0.030 | 0.010 | 0.03   | Pass       | Phosmet                 | ND   | 0.030 | 0.020  | 0.03  | Pass |
| Clofentezine        | ND   | 0.010 | 0.005 | 0.01   | Pass       | Piperonyl Butoxide      | ND   | 0.030 | 0.010  | 1.25  | Pass |
| Cyfluthrin          | ND   | 0.038 | 0.013 | 0.0384 | Pass       | Prallethrin             | ND   | 0.075 | 0.030  | 0.075 | Pass |
| Cypermethrin        | ND   | 0.053 | 0.018 | 0.0525 | Pass       | Propiconazole           | ND   | 0.030 | 0.010  | 0.03  | Pass |
| Diazinon            | ND   | 0.030 | 0.010 | 0.03   | Pass       | Pyrethrins              | ND   | 0.045 | 0.010  | 0.045 | Pass |
| Dimethomorph        | ND   | 0.030 | 0.010 | 0.03   | Pass       | Pyridaben               | ND   | 0.020 | 0.010  | 0.02  | Pass |
| Etoazole            | ND   | 0.030 | 0.010 | 0.03   | Pass       | Spinetoram              | ND   | 0.010 | 0.005  | 0.01  | Pass |
| Fenhexamid          | ND   | 0.045 | 0.020 | 0.045  | Pass       | Spinosad                | ND   | 0.010 | 0.005  | 0.01  | Pass |
| Fenpyroximate       | ND   | 0.030 | 0.010 | 0.03   | Pass       | Spiromesifen            | ND   | 0.030 | 0.010  | 0.03  | Pass |
| Flonicamid          | ND   | 0.025 | 0.010 | 0.025  | Pass       | Spirotetramat           | ND   | 0.010 | 0.005  | 0.01  | Pass |
| Fludioxonil         | ND   | 0.010 | 0.005 | 0.01   | Pass       | Tebuconazole            | ND   | 0.010 | 0.005  | 0.01  | Pass |
| Hexythiazox         | ND   | 0.030 | 0.010 | 0.03   | Pass       | Thiamethoxam            | ND   | 0.010 | 0.005  | 0.01  | Pass |
| Imidacloprid        | ND   | 0.010 | 0.005 | 0.01   | Pass       | Trifloxystrobin         | ND   | 0.010 | 0.005  | 0.01  | Pass |

## Other Analyte(s):

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