

Certificate of Analysis

Final Product: **Cannabidiol Isolate**
 Date of Manufacture: **June 2020**

Lot Number: **IL2006I-008**

763850



MILE HIGH LABS

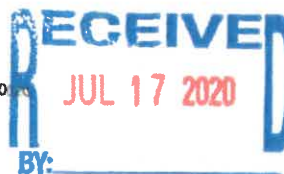
| Test | Methodology | Specification | Test Results (Average)* | Pass/Fail |
|---|--|--|-------------------------|-----------|
| Color and Appearance | TM-004 (Visual) | White, crystalline powder free of particulates | Conforms | Pass |
| Cannabidiol Identification | TM-001 (DAD Retention Time) | Retention time of the primary peak in sample chromatogram matches that in the analytical reference standard. | Conforms | Pass |
| | TM-001 (DAD UV Spectrum) | UV Spectrum of the primary peak in sample chromatogram matches that in the analytical reference standard. | Conforms | Pass |
| CBD Potency | CBD(%w/w) TM-001 (HPLC - DAD) | >=98 %w/w | 98.9 | Pass |
| THC Content | THC(%w/w) TM-001 (HPLC - DAD) | ≤ LOQ ¹ | ≤ LOQ | Pass |
| | THCA(%w/w) TM-001 (HPLC - DAD) | Report ¹ | ND | Pass |
| | Total THC(%w/w) TM-001 (HPLC - DAD) | ≤ LOQ ¹ | ≤ LOQ | Pass |
| | CBN(%w/w) TM-001 (HPLC - DAD) | Report ¹ | ND | Pass |
| Related Cannabinoid Content | cis-THC(%w/w) TM-001 (HPLC - DAD) | Report ¹ | 0.058 | Pass |
| | delta 8-THC(%w/w) TM-001 (HPLC - DAD) | Report ¹ | ND | Pass |
| | THCV(%w/w) TM-001 (HPLC - DAD) | Report ¹ | <LOQ | Pass |
| | THCVA(%w/w) TM-001 (HPLC - DAD) | Report ¹ | ND | Pass |
| | CBC(%w/w) TM-001 (HPLC - DAD) | Report | <LOQ | NA |
| | CBCA(%w/w) TM-001 (HPLC - DAD) | Report | ND | NA |
| | CBDVA(%w/w) TM-001 (HPLC - DAD) | Report | ND | NA |
| | CBDV(%w/w) TM-001 (HPLC - DAD) | Report | 0.375 | NA |
| | CBE(%w/w) TM-001 (HPLC - DAD) | Report | ND | NA |
| | CBGA(%w/w) TM-001 (HPLC - DAD) | Report | ND | NA |
| | CBG(%w/w) TM-001 (HPLC - DAD) | Report | ND | NA |
| | CBL(%w/w) TM-001 (HPLC - DAD) | Report | ND | NA |
| | CBLA(%w/w) TM-001 (HPLC - DAD) | Report | <LOQ | NA |
| | CBT(%w/w) TM-001 (HPLC - DAD) | Report | ND | NA |
| | Total Unknowns(%w/w) TM-001 (HPLC - DAD) | Report | 0.209 | NA |
| | Total (Sum of all observed RCs known and unknown) (%w/w) TM-001 (HPLC - DAD) | Report | 0.585 | NA |
| | Total Cannabinoids (CBD plus total RCs)(% w/w) TM-001 (HPLC - DAD) | Report | 99.490 | NA |
| | Residual Solvents | Pentane(ppm) TM-005 (HS-GC - FID) | ≤500 ppm | 147 |
| Acetone(ppm) TM-005 (HS-GC - FID) | | ≤500 ppm | <LOQ | Pass |
| Isopropyl Alcohol(ppm) TM-005 (HS-GC - FID) | | ≤500 ppm | <LOQ | Pass |
| Hexane(ppm) TM-005 (HS-GC - FID) | | ≤25 ppm | <LOQ | Pass |
| Ethanol(ppm) TM-005 (HS-GC - FID) | | ≤500 ppm | <LOQ | Pass |
| Methanol(ppm) TM-005 (HS-GC - FID) | | ≤300 ppm | <LOQ | Pass |

*Number of replicates: 21

¹TM-001 LOQ of 0.05% w/w for related cannabinoids.

²Full table of individual pesticides and associated limits on file.

³Contract Testing performed by Eurofins BioDiagnostics.



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MILE HIGH LABS[®]

Certificate of Analysis

Final Product: Cannabidiol Isolate
Date of Manufacture: August 2020

Lot Number: IL2008I-016

| Test | Methodology | Specification | Test Results (Average)* | Pass/Fail |
|--|---|--|-------------------------|-----------|
| Color and Appearance | TM-004 (Visual) | White, crystalline powder free of particulates | Conforms | Pass |
| Cannabidiol Identification | TM-001 (DAD Retention Time) | Retention time of the primary peak in sample chromatogram matches that in the analytical reference standard. | Conforms | Pass |
| | TM-001 (DAD UV Spectrum) | UV Spectrum of the primary peak in sample chromatogram matches that in the analytical reference standard. | Conforms | Pass |
| CBD Potency | CBD(%w/w) TM-001 (HPLC - DAD) | >=98 %w/w | 99.1 | Pass |
| THC Content | THC(%w/w) TM-001 (HPLC - DAD) | ≤0.054 %w/w [†] | ND | Pass |
| | THCA(%w/w) TM-001 (HPLC - DAD) | ≤ Limit of Quantification [‡] | ND | Pass |
| | Total THC(%w/w) TM-001 (HPLC - DAD) | ≤0.054 %w/w [†] | ND | Pass |
| Related Cannabinoid Content | CBN(%w/w) TM-001 (HPLC - DAD) | ≤ Limit of Quantification [‡] | <LOQ | Pass |
| | cis-THC(%w/w) TM-001 (HPLC - DAD) | ≤ Limit of Quantification [‡] | <LOQ | Pass |
| | delta 8-THC(%w/w) TM-001 (HPLC - DAD) | ≤ Limit of Quantification [‡] | ND | Pass |
| | THCV(%w/w) TM-001 (HPLC - DAD) | ≤ Limit of Quantification [‡] | ND | Pass |
| | THCVA(%w/w) TM-001 (HPLC - DAD) | ≤ Limit of Quantification [‡] | ND | Pass |
| | CBC(%w/w) TM-001 (HPLC - DAD) | Report | <LOQ | NA |
| | CBCA(%w/w) TM-001 (HPLC - DAD) | Report | ND | NA |
| | CBDA(%w/w) TM-001 (HPLC - DAD) | Report | ND | NA |
| | CBDVA(%w/w) TM-001 (HPLC - DAD) | Report | ND | NA |
| | CBDV(%w/w) TM-001 (HPLC - DAD) | Report | 0.359 | NA |
| | CBE(%w/w) TM-001 (HPLC - DAD) | Report | ND | NA |
| | CBGA(%w/w) TM-001 (HPLC - DAD) | Report | ND | NA |
| | CBG(%w/w) TM-001 (HPLC - DAD) | Report | ND | NA |
| | CBL(%w/w) TM-001 (HPLC - DAD) | Report | ND | NA |
| | CBLA(%w/w) TM-001 (HPLC - DAD) | Report | ND | NA |
| | CBT(%w/w) TM-001 (HPLC - DAD) | Report | ND | NA |
| | Total Unknowns(%w/w) TM-001 (HPLC - DAD) | Report | 0.259 | NA |
| | Total (Sum of all observed RCs known and unknown) (%w/w) TM-001 (HPLC - DAD) | Report | 0.618 | NA |
| | Total Cannabinoids (CBD plus total RCs) (%w/w) TM-001 (HPLC - DAD) | Report | 99.660 | NA |
| | Residual Solvents | Pentane(ppm) TM-005 (HS-GC - FID) | ≤500 ppm | 117 |
| Acetone(ppm) TM-005 (HS-GC - FID) | | ≤500 ppm | <LOQ | Pass |
| Isopropyl Alcohol(ppm) TM-005 (HS-GC - FID) | | ≤500 ppm | <LOQ | Pass |
| Ethanol(ppm) TM-005 (HS-GC - FID) | | ≤500 ppm | <LOQ | Pass |
| Methanol(ppm) TM-005 (HS-GC - FID) | | ≤300 ppm | <LOQ | Pass |
| Hexane(ppm) TM-005 (HS-GC - FID) | | ≤25 ppm | <LOQ | Pass |

*Number of replicates: 24

[†]TM-001 LOQ of 0.05% w/w for related cannabinoids.

[‡]Full table of individual pesticides and associated limits on file.

[§]Contract Testing performed by Eurofins BioDiagnostics.

