

# Certificate of Analysis

**Final Product:** Broad Spectrum THC-Free Distillate

**Date of Manufacture:** June 2020

| Test                        | Methodology                                              |                             | Specification                                                                                                | Test Results (Average)* | Pass/Fail |
|-----------------------------|----------------------------------------------------------|-----------------------------|--------------------------------------------------------------------------------------------------------------|-------------------------|-----------|
| Visual                      | Color and Appearance                                     | TM-004 (Visual)             | Amber, semi-solid at room temperature                                                                        | Conforms                | Pass      |
| Cannabinoid 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)(%w/w)                                          | TM-001 (HPLC - DAD)         | 80 - 90 %w/w                                                                                                 | 85.5                    | Pass      |
| THC Content                 | THC(%w/w)                                                | TM-001 (HPLC - DAD)         | ≤0.1 %w/w                                                                                                    | <LOQ                    | Pass      |
|                             | THCA(%w/w)                                               | TM-001 (HPLC - DAD)         | ≤0.1 %w/w                                                                                                    | ND                      | Pass      |
| Related Cannabinoid Content | Total THC(%w/w)                                          | TM-001 (HPLC - DAD)         | ≤0.1 %w/w                                                                                                    | ND                      | Pass      |
|                             | CBN(%w/w)                                                | TM-001 (HPLC - DAD)         | ≤0.1 %w/w                                                                                                    | 0.054                   | Pass      |
|                             | cis-THC(%w/w)                                            | TM-001 (HPLC - DAD)         | ≤0.1 %w/w                                                                                                    | 0.055                   | Pass      |
|                             | delta 8-THC(%w/w)                                        | TM-001 (HPLC - DAD)         | ≤0.1 %w/w                                                                                                    | ND                      | Pass      |
|                             | THCV(%w/w)                                               | TM-001 (HPLC - DAD)         | ≤0.1 %w/w                                                                                                    | 0.086                   | Pass      |
|                             | THCVA(%w/w)                                              | TM-001 (HPLC - DAD)         | ≤0.1 %w/w                                                                                                    | ND                      | Pass      |
|                             | CBC(%w/w)                                                | TM-001 (HPLC - DAD)         | Report                                                                                                       | 0.051                   | 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                                                                                                       | 0.774                   | NA        |
|                             | CBE(%w/w)                                                | TM-001 (HPLC - DAD)         | Report                                                                                                       | 2.448                   | NA        |
|                             | CBGA(%w/w)                                               | TM-001 (HPLC - DAD)         | Report                                                                                                       | ND                      | NA        |
|                             | CBG(%w/w)                                                | TM-001 (HPLC - DAD)         | Report                                                                                                       | 4.580                   | 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                                                                                                       | 3.300                   | NA        |
|                             | Total (Sum of all observed RCs known and unknown) (%w/w) | TM-001 (HPLC - DAD)         | Report                                                                                                       | 11.349                  | NA        |
| Total Cannabinoids          | (CBD plus total RCs)(%w/w)                               | TM-001 (HPLC - DAD)         | Report                                                                                                       | 96.815                  | NA        |
| Residual Solvents           | Methanol(ppm)                                            | TM-005 (HS-GC - FID)        | ≤300 ppm                                                                                                     | <LOQ                    | Pass      |
|                             | Pentane(ppm)                                             | TM-005 (HS-GC - FID)        | ≤500 ppm                                                                                                     | <LOQ                    | Pass      |
|                             | Acetone(ppm)                                             | TM-005 (HS-GC - FID)        | ≤500 ppm                                                                                                     | <LOQ                    | Pass      |
|                             | Isopropyl Alcohol(ppm)                                   | TM-005 (HS-GC - FID)        | ≤500 ppm                                                                                                     | <LOQ                    | Pass      |
|                             | Hexanes, Total(ppm)                                      | TM-005 (HS-GC - FID)        | ≤25 ppm                                                                                                      | <LOQ                    | Pass      |
|                             | Heptanes, Total(ppm)                                     | TM-005 (HS-GC - FID)        | ≤500 ppm                                                                                                     | <LOQ                    | Pass      |
|                             | Ethanol(ppm)                                             | TM-005 (HS-GC - FID)        | ≤500 ppm                                                                                                     | <LOQ                    | Pass      |
| Pesticides                  | Individual Pesticide Content (ppm) <sup>1</sup>          | TM-011 (LC-MS)              | Individual Pesticide Limit <sup>1</sup>                                                                      | CONFORMS                | Pass      |

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|                      |                   |                       |          |       |      |
|----------------------|-------------------|-----------------------|----------|-------|------|
| Elemental Impurities | Arsenic(ppm)      | ICP-MS <sup>2</sup>   | <1.0 ppm | <LOQ  | Pass |
|                      | Cadmium(ppm)      | ICP-MS <sup>2</sup>   | <0.4 ppm | <LOQ  | Pass |
|                      | Lead(ppm)         | ICP-MS <sup>2</sup>   | <0.5 ppm | <LOQ  | Pass |
|                      | Mercury(ppm)      | ICP-MS <sup>2</sup>   | <0.2 ppm | <LOQ  | Pass |
| Mycotoxins           | Ochratoxin A(ppb) | USP<561> <sup>2</sup> | ≤1.0 ppb | 0.000 | Pass |

\*Number of replicates: 3

<sup>1</sup>Full table of individual pesticides and associated limits on file.

<sup>2</sup>Contract Testing performed by Eurofins BioDiagnostics.