

# Certificate of Analysis



**Final Product:** Tincture - CBD Isolate      **Lot Number:** PB2003F125  
**Flavor:** Natural      **Strength:** 3000mg  
**Date of Manufacture:** March 2020

| Test                        | Methodology                       | Specification               | Test Results (Average)*  | Pass/Fail |      |
|-----------------------------|-----------------------------------|-----------------------------|--|-----------|------|
| Visual                      | Color and Appearance              | TM-004 (Visual)             | Clear or yellow to orange/red clear, flowing, liquid free of particulates                                    | Conforms  | Pass |
| Organoleptic                | Aroma/Odor                        | TM-004 (Organoleptic)       | Prominent labeled aroma  | Conforms  | Pass |
| Cannabinoid Identification  | ID by Retention Time              | TM-003 (DAD Retention Time) | Retention time of the primary peak in sample chromatogram matches that in the analytical reference standard. | Conforms  | Pass |
|                             | ID by UV                          | TM-003 (DAD UV Spectrum)    | UV Spectrum of the primary peak in sample chromatogram matches that in the analytical reference standard.    | Conforms  | Pass |
| CBD Content                 | Assay (percent of label claim)(%) | TM-003 (HPLC-DAD)           | 90.0 - 110.0 %   | 99.3      | Pass |
|                             | Assay(%w/w)                       | TM-003 (HPLC-DAD)           | Report   | 10.273    | NA   |
| THC Content                 | THC(%w/w)                         | TM-003 (HPLC-DAD)           | Report   | 0.003     | NA   |
|                             | THCA(%w/w)                        | TM-003 (HPLC-DAD)           | Report   | ND        | NA   |
|                             | Total THC(%w/w)                   | TM-003 (HPLC-DAD)           | ≤0.05 %w/w   | 0.003     | Pass |
| Related Cannabinoid Content | CBN(%w/w)                         | TM-003 (HPLC-DAD)           | Report   | ND        | NA   |
|                             | cis-THC(%w/w)                     | TM-003 (HPLC-DAD)           | Report   | 0.001     | NA   |
|                             | delta 8-THC(%w/w)                 | TM-003 (HPLC-DAD)           | Report   | ND        | NA   |
|                             | THCV(%w/w)                        | TM-003 (HPLC-DAD)           | Report   | ND        | NA   |
|                             | THCVA(%w/w)                       | TM-003 (HPLC-DAD)           | Report   | ND        | NA   |
|                             | CBC(%w/w)                         | TM-003 (HPLC-DAD)           | Report   | 0.003     | NA   |
|                             | CBDA(%w/w)                        | TM-003 (HPLC-DAD)           | Report   | ND        | NA   |
|                             | CBDVA(%w/w)                       | TM-003 (HPLC-DAD)           | Report   | ND        | NA   |
|                             | CBDV(%w/w)                        | TM-003 (HPLC-DAD)           | Report   | 0.035     | NA   |
|                             | CBE(%w/w)                         | TM-003 (HPLC-DAD)           | Report   | ND        | NA   |
|                             | CBGA(%w/w)                        | TM-003 (HPLC-DAD)           | Report   | ND        | NA   |
|                             | CBG(%w/w)                         | TM-003 (HPLC-DAD)           | Report   | 0.001     | NA   |
|                             | CBL(%w/w)                         | TM-003 (HPLC-DAD)           | Report   | ND        | NA   |
|                             | CBT(%w/w)                         | TM-003 (HPLC-DAD)           | Report   | ND        | NA   |
|                             | Total (RC)(%w/w)                  | TM-003 (HPLC-DAD)           | Report   | 0.042     | NA   |
| Total Cannabinoids          | (CBD plus total RCs)(%w/w)        | TM-003 (HPLC-DAD)           | Report   | 10.303    | NA   |

\*Number of replicates: 3

\*Full list of individual pesticide residues on file, Eurofins LOQ of 0.1 ppm for individual residues.

\*Contract Testing performed by Eurofins BioDiagnostics.

**Data Reviewed and Approved by:** Beth Grant  
 3/24/2020 9:54:48 AM