

Certificate of Analysis:  
**Crystalline Cannabidiol**



Product Name  
 CC – Crystalline Cannabidiol  
 Batch Number  
 CC18151  
 Manufacture Date  
 July 30, 2018  
 Expiration Date  
 July 2019

Botanical Source  
 Industrial hemp, grown and processed in Kentucky, USA in compliance with Section 7606 of the Farm Bill and applicable Kentucky State Law and State Department of Agriculture regulations.

Product Description  
 This product is hemp derived crystalline cannabidiol, isolated through CO<sub>2</sub> extraction and crystal precipitation. CBD content is validated through HPLC.

Qualitative Analysis

| OBSERVATION     | METHOD                   | RESULT            |
|-----------------|--------------------------|-------------------|
| Foreign Matter  | Gross Visual/Microscopic | Absent            |
| Color           | Gross Visual/Microscopic | White/Off-White   |
| Molds & Mildews | Gross Visual/Microscopic | Absent            |
| Smell           | Olfactory                | Absent            |
| Product Feel    | Tactile                  | Crystalline, Fine |

Quantitative Analysis

| Cannabinoid Analysis               |                 | RESULT: PASS  |
|------------------------------------|-----------------|---------------|
| IDENTIFICATION                     | METHOD          | RESULT        |
| <b>Cannabinoid</b>                 | <b>HPLC-DAD</b> | <b>%wt/wt</b> |
| Cannabidiolic Acid (CBDA)          | HPLC-DAD        | N/D           |
| Cannabidiol (CBD)                  | HPLC-DAD        | 99.25%        |
| Cannabidivarin (CBDV)              | HPLC-DAD        | 0.20%         |
| Tetrahydrocannabinolic Acid (THCA) | HPLC-DAD        | N/D           |
| Δ-9-Tetrahydrocannabinol (Δ-9-THC) | HPLC-DAD        | N/D           |
| Cannabinol (CBN)                   | HPLC-DAD        | N/D           |
| Cannabichromene (CBC)              | HPLC-DAD        | N/D           |

\*\*Denotes third party analysis. Source data available upon request.  
 N/A NOT APPLICABLE TO PRODUCT TYPE  
 N/D NOT DETECTED

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