

## PRODUCT NAME

Crystalline Cannabidiol (CBD)

Botanical Source: cultivated under organic conditions in 2016 in Kentucky, USA.

## PRODUCT DESCRIPTION

This product is hemp derived crystalline cannabidiol, isolated through CO<sub>2</sub> extraction and crystal precipitation. The values enclosed represent batch analysis with associated data for each target. Each batch or sample may vary slightly; a certificate of analysis (COA) with exact values will be issued with each order. With the exception of cannabinoid analysis, all data was collected by third party agricultural laboratories and agglomerated into this COA. Should the COA be revised, you will be notified via email with the specific revisions and batch/lot number affected.

## QUALITATIVE ANALYSIS

OBSERVATION	METHOD	SPECIFICATION
Foreign Matter	Gross Visual/Microscopic	Absent
Molds & Mildews	Gross Visual/Microscopic	Absent
Smell	Gross Visual/Microscopic	Absent
Product Feel	Gross Visual/Microscopic	Crystalline, Fine

## QUANTITATIVE ANALYSIS

### Physical

IDENTIFICATION	METHOD	SPECIFICATION
% Moisture	AOAC 4.1.03	<0.05%
% Ash	AOAC 4.1.10	N/A
% Terpene Fraction	GC-MS	N/A
% Plant Wax Fraction	HPLC	N/A

### Microbial Analysis\*\*

**RESULT: PASS**

IDENTIFICATION	METHOD	SPECIFICATION
Standard Plate Count	BAM-3	NEGATIVE
Total Aflatoxin	AOAC 49.2.05	NEGATIVE
Total Yeast	BAM-18	NEGATIVE
Total Mold	BAM-18	NEGATIVE

**Cannabinoid Analysis****RESULT: PASS**

IDENTIFICATION	METHOD	SPECIFICATION
<b>Cannabinoid</b>	<b>HPLC-DAD</b>	<b>%wt/wt</b>
Cannabidiolic Acid (CBDA)	HPLC-DAD	<0.1%
Cannabidiol (CBD)	HPLC-DAD	98 ± 1%
Cannabidivarin (CBDV)	HPLC-DAD	<0.01%
Tetrahydrocannabinolic Acid	HPLC-DAD	<0.01%
Δ-9-Tetrahydrocannabinol	HPLC-DAD	<0.01%
Cannabinol	HPLC-DAD	<0.01%
Cannabigerolic Acid	HPLC-DAD	<0.01%

*Test Date 110216***Heavy Metal Analysis\*\*****RESULT: PASS**

IDENTIFICATION	METHOD	SPECIFICATION
Arsenic	6010B	N/D
Cadmium	6010B	N/D
Chromium	6010B	N/D
Lead	6010B	N/D
Mercury	6010B	N/D

*Test Date 110216***Pesticide Analysis\*\*****RESULT: PASS**

IDENTIFICATION	METHOD	SPECIFICATION
Multi Residue Pesticide Analysis	AOAC 2007.1	N/D

*Test Date 110216***Residual Solvent Analysis\*\*****RESULT: PASS**

IDENTIFICATION	METHOD	SPECIFICATION
Hexanes	GC/MS HEADSPACE	N/D
Acetone	GC/MS HEADSPACE	N/D
Ethanol	GC/MS HEADSPACE	N/D
Isopropyl Alcohol	GC/MS HEADSPACE	N/D

*Test Date 110216**\*\*Denotes third party analysis.**N/A NOT APPLICABLE TO PRODUCT TYPE**N/D NOT DETECTED***Approval:**

### **Information regarding this Certificate of Analysis:**

This Certificate of Analysis (COA) represents data generated from both internal and external laboratories using the specified methods indicated within. Actual data on the material received may deviate somewhat from values represented above due to the volume of material in each batch, sampling methods, analysis methods, etc.

In the case that a COA is modified, any change in values listed within due to further analysis will be conveyed via email as soon as the certificate(s) applicable to your purchase(s) are updated.

### **Information regarding specifications for each class of test:**

The product type represented herein meets or exceeds the qualifications set forth by the AHPA, NSF/ANSI, USP, and WHO with respect to microbial, heavy metal, and residual solvent limits for botanical ingredients.

### **Disclaimer:**

This product has been tested both by Blue Moon Hemp, Inc. (“BMH”) internal laboratories as well as third party laboratories that specialize in agricultural analytical services. Blue Moon Hemp, Inc. and the third-party laboratories that perform analysis are not responsible for interpretation of data and downstream product use. Blue Moon Hemp, Inc. represents no warranty, guarantee, or return policy on material sold or shipped for sampling. This COA is subject to revision and you will be advised of such should a revision occur. All material that is cleared for sale in accordance and compliant with the provisions of the industrial hemp pilot programs at federal, state, and local levels.