

**CERTIFICATE OF ANALYSIS**

**Project:** CBD  
**Order ID:** 2019000338

**Customer ID:** 54755766  
**Customer Name:** CBD Plus USA

**Harvest/Extract Lot:**  
**Harvest/Extract Date:**

**Cultivar (Strain):** BS Distillate  
**Sample Date:** 02/11/2019

**Lab ID:** 2019001202  
**Date Received:** 02/11/2019

**Sample Matrix:** Concentrate  
**Date Completed:** 02/13/2019

**Remarks:**

**Analysis Date/Time:** 02-12-2019 0354 **Method:** HPLC/UV  
**Analyst:** KWF **Instrument:** Agilent 1100

**Moisture Content (%):** -  
**Water Activity (aw):** - at - °C

| <u>Cannabinoid</u> | <u>Result</u><br>(%) | <u>Result</u><br>(mg/g) | <u>Reporting Limit</u><br>(mg/g) | <u>Per Unit</u><br>(mg) |
|--------------------|----------------------|-------------------------|----------------------------------|-------------------------|
| CBD                | 83.0                 | 830                     | 0.100                            | 830                     |
| CBDa               | <RL                  | <RL                     | 0.100                            | -                       |
| CBDv               | 0.416                | 4.16                    | 0.100                            | 4.16                    |
| Δ9-THC             | <RL                  | <RL                     | 0.100                            | -                       |
| Δ8-THC             | <RL                  | <RL                     | 0.100                            | -                       |
| THCa               | <RL                  | <RL                     | 0.100                            | -                       |
| CBC                | 2.30                 | 23.0                    | 0.100                            | 23.0                    |
| CBG                | 0.560                | 5.60                    | 0.100                            | 5.60                    |
| CBGa               | <RL                  | <RL                     | 0.100                            | -                       |
| CBN                | 1.15                 | 11.5                    | 0.100                            | 11.5                    |
| <b>TOTAL</b>       | <b>89.7</b>          | <b>874</b>              |                                  | <b>874</b>              |



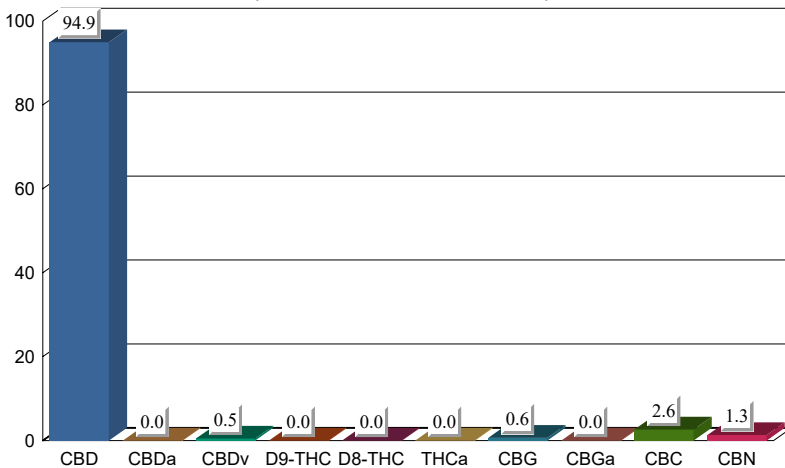
**UNIT MASS (g): 1.00**

**TOTAL THC** <RL <RL -  
**TOTAL CBD** 83.0 830 830

Deviations from standard operating procedure: None

**Cannabinoid Distribution**

(% of Total Cannabinoids)



Recoveries for all analyte standards: 90-110%  
Replicate Uncertainties: <5% RSD, <20% RPD  
Sample/Reagent Blanks: <RL for all analytes

Values for plant matter are adjusted for moisture content.

Total THC = (THCa x 0.877) + Δ9-THC  
Total CBD = (CBDa x 0.877) + CBD

Percentage results are reported by mass.  
mg/g results are reported as mass component per mass material.

Abbreviations: UV - Ultraviolet, HPLC - High Pressure Liquid Chromatography, RL - Reporting Limit, RPD - Relative Percent Difference, RSD - Relative Standard Deviation

This information is provided as a service and makes no claims of efficacy and/or safety of this product. Results are applicable only for the sample(s) analyzed and for the specific analysis conducted. This report is for informational purposes only and should not be used to diagnose, treat, or prevent any medical-related symptoms. The statements and results herein have not been approved and/or endorsed by the FDA.

**REPORT OF LABORATORY ANALYSIS**

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*Kyle W. Felling*  
Kyle W. Felling, Ph.D.  
Laboratory Director

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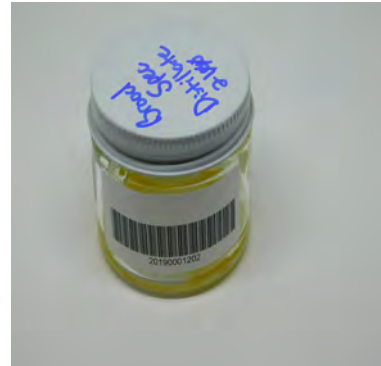
**Remarks:**

**TERPENOID PROFILE**

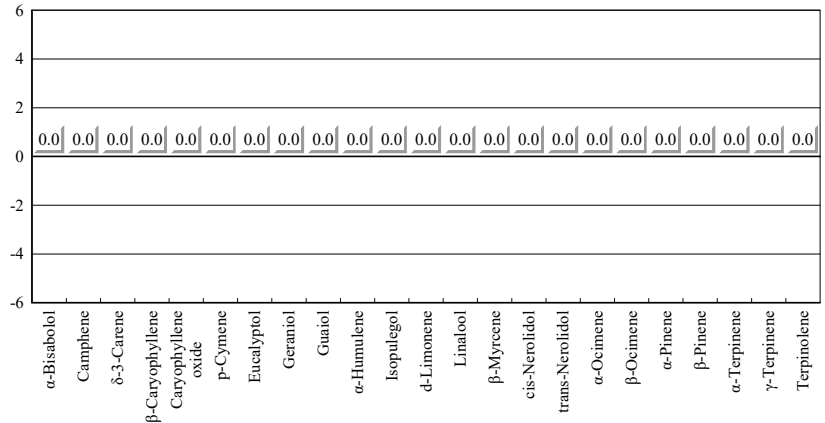
**Analysis Date/Time:** 02-12-2019 0122 **Method:** HS/GC/MS (Internal Method-002)  
**Analyst:** KWF

**Deviations from SOP:**  
None

| <u>Terpene</u>         | <u>Result</u><br>( $\mu\text{g/g}$ ) | <u>Result</u><br>(%, total terpenes) |
|------------------------|--------------------------------------|--------------------------------------|
| $\alpha$ -Bisabolol    | -                                    | -                                    |
| Camphene               | -                                    | -                                    |
| $\delta$ -3-Carene     | -                                    | -                                    |
| $\beta$ -Caryophyllene | -                                    | -                                    |
| Caryophyllene oxide    | -                                    | -                                    |
| p-Cymene               | -                                    | -                                    |
| Eucalyptol             | -                                    | -                                    |
| Geraniol               | -                                    | -                                    |
| Guaiol                 | -                                    | -                                    |
| $\alpha$ -Humulene     | -                                    | -                                    |
| Isopulegol             | -                                    | -                                    |
| d-Limonene             | -                                    | -                                    |
| Linalool               | -                                    | -                                    |
| $\beta$ -Myrcene       | -                                    | -                                    |
| cis-Nerolidol          | -                                    | -                                    |
| trans-Nerolidol        | -                                    | -                                    |
| $\alpha$ -Ocimene      | -                                    | -                                    |
| $\beta$ -Ocimene       | -                                    | -                                    |
| $\alpha$ -Pinene       | -                                    | -                                    |
| $\beta$ -Pinene        | -                                    | -                                    |
| $\alpha$ -Terpinene    | -                                    | -                                    |
| $\gamma$ -Terpinene    | -                                    | -                                    |
| Terpinolene            | -                                    | -                                    |
| <b>TOTAL</b>           | -                                    | -                                    |



**Terpenoid Distribution**  
(% of Total Terpenes)



**Reporting Limit ( $\mu\text{g/g}$ )** 18

*Abbreviations:* HS - Headspace, GC - Gas Chromatography, MS - Mass Spectrometry, RL - Reporting Limit

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