

**CERTIFICATE OF ANALYSIS**

**Project:** CBD  
**Order ID:** 2019000570

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

**Harvest/Extract Lot:** GP2110  
**Harvest/Extract Date:** 02/27/2019

**Cultivar (Strain):** All Natural (BS)  
**Sample Date:** 03/04/2019

**Lab ID:** 2019002085  
**Date Received:** 03/04/2019

**Sample Matrix:** Oil/Tincture  
**Date Completed:** 03/05/2019

**Remarks:**

**Analysis Date/Time:** 03-05-2019 1631  
**Analyst:** KWF

**Method:** HPLC/UV  
**Instrument:** Agilent 1100

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

| <u>Cannabinoid</u> | <u>Result</u><br><u>(%)</u> | <u>Result</u><br><u>(mg/mL)</u> | <u>Reporting Limit</u><br><u>(mg/mL)</u> | <u>Per Unit</u><br><u>(mg)</u> |
|--------------------|-----------------------------|---------------------------------|--|--------------------------------|
| CBD                | 1.84                        | 18.4                            | 0.05                                     | 551                            |
| CBDa               | 0.0201                      | 0.201                           | 0.05                                     | 6.03                           |
| CBDv               | <RL                         | <RL                             | 0.05                                     | -                              |
| Δ9-THC             | <RL                         | <RL                             | 0.05                                     | -                              |
| Δ8-THC             | <RL                         | <RL                             | 0.05                                     | -                              |
| THCa               | <RL                         | <RL                             | 0.05                                     | -                              |
| CBC                | 0.0334                      | 0.334                           | 0.05                                     | 10.0                           |
| CBG                | 0.0082                      | 0.082                           | 0.05                                     | 2.47                           |
| CBGa               | <RL                         | <RL                             | 0.05                                     | -                              |
| CBN                | <RL                         | <RL                             | 0.05                                     | -                              |
| <b>TOTAL</b>       | <b>3.79</b>                 | <b>19.0</b>                     |  | <b>569</b>                     |

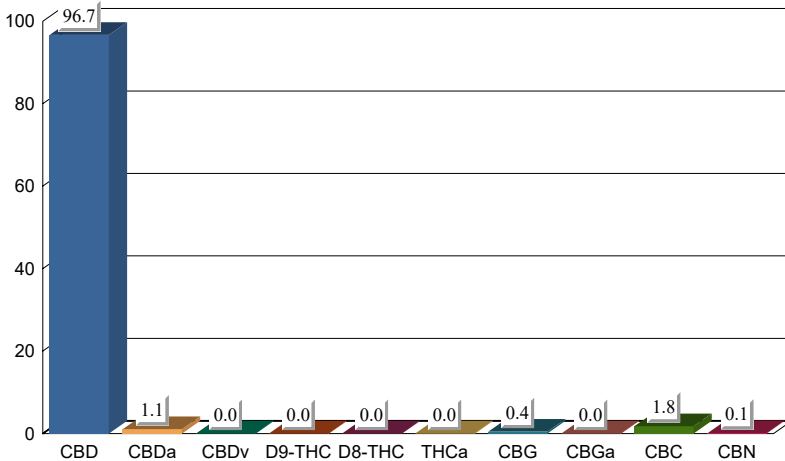


**UNIT VOLUME (mL):** 30.0

**TOTAL THC** <RL <RL -  
**TOTAL CBD** 1.85 18.5 556

*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

**REPORT OF LABORATORY ANALYSIS**

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**CERTIFICATE OF ANALYSIS**

|  |                                    |   |
|--|------------------------------------|---|
| <b>Project:</b> CBD                        | <b>Customer ID:</b> 54755766       | <b>Harvest/Extract Lot:</b> GP2110      |
| <b>Order ID:</b> 2019000570                | <b>Customer Name:</b> CBD Plus USA | <b>Harvest/Extract Date:</b> 02/27/2019 |
| <b>Cultivar (Strain):</b> All Natural (BS) | <b>Lab ID:</b> 2019002085          | <b>Sample Matrix:</b> Oil/Tincture      |
| <b>Sample Date:</b> 03/04/2019             | <b>Date Received:</b> 03/04/2019   | <b>Date Completed:</b> 03/05/2019       |

**Remarks:**

**TERPENOID PROFILE**

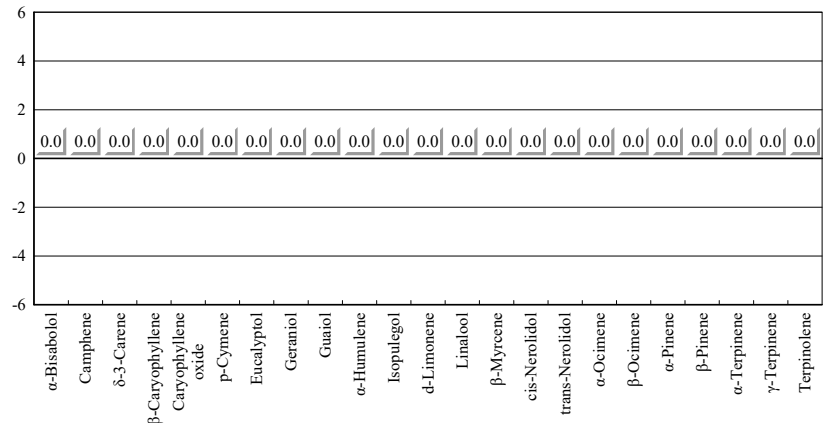
**Analysis Date/Time:** 03-05-2019 0840 **Method:** HS/GC/MS (Internal Method-002) **Deviations from SOP:**  
**Analyst:** KWF **Instrument:** Agilent 7890/5975 **None**

| <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 ( $\mu\text{g/g}$ )      11**

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

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