

CERTIFICATE OF ANALYSIS

Project: CBD **Customer ID:** 54755766 **Harvest/Extract Lot:** 2110
Order ID: 2019000336 **Customer Name:** CBD Plus USA **Harvest/Extract Date:** 02/11/2019
Cultivar (Strain): BS Distillate **Lab ID:** 2019001273 **Sample Matrix:** Concentrate
Sample Date: 02/12/2019 **Date Received:** 02/12/2019 **Date Completed:** 02/12/2019

Remarks:

Analysis Date/Time: 02-12-2019 1348 **Method:** HPLC/UV **Moisture Content (%):** -
Analyst: KWF **Instrument:** Agilent 1100 **Water Activity (aw):** - at - °C

<u>Cannabinoid</u>	<u>Result</u> <u>(%)</u>	<u>Result</u> <u>(mg/g)</u>	<u>Reporting Limit</u> <u>(mg/g)</u>	<u>Per Unit</u> <u>(mg)</u>
CBD	89.3	893	0.100	893
CBDa	<RL	<RL	0.100	-
CBDv	0.387	3.87	0.100	3.87
Δ9-THC	<RL	<RL	0.100	-
Δ8-THC	<RL	<RL	0.100	-
THCa	<RL	<RL	0.100	-
CBC	2.07	20.7	0.100	20.7
CBG	0.583	5.83	0.100	5.83
CBGa	<RL	<RL	0.100	-
CBN	1.16	11.6	0.100	11.6
TOTAL	95.9	935		935

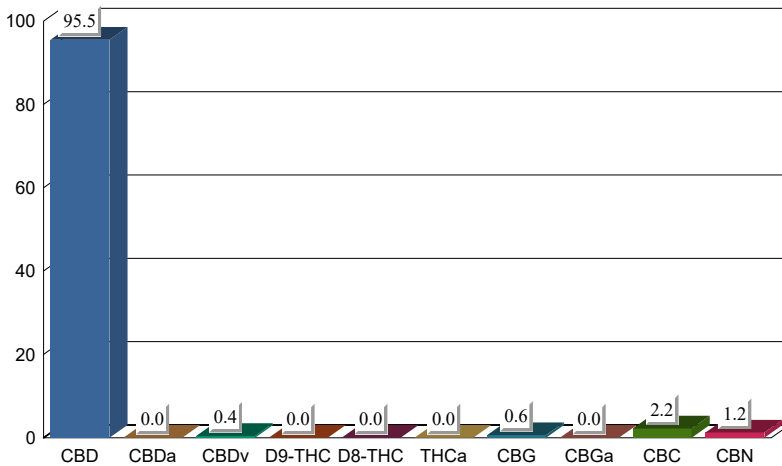


UNIT MASS (g): 1.00

TOTAL THC <RL <RL -
TOTAL CBD 89.3 893 893 *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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 Felling Analytical Services and Technology (F.A.S.T.), LLC

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

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TERPENOID PROFILE

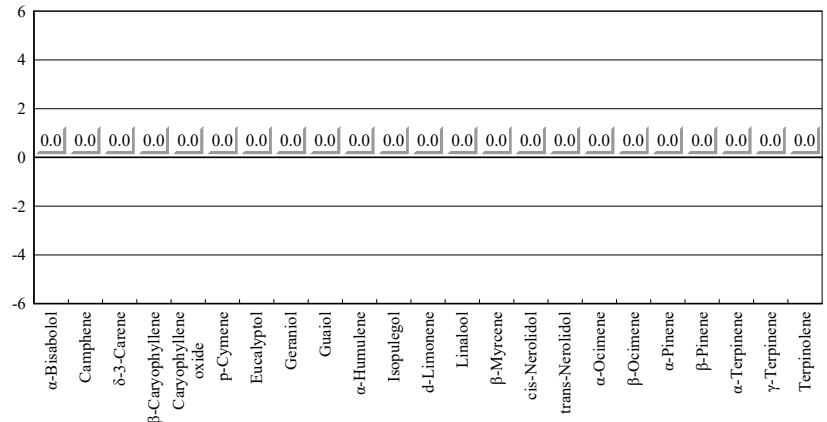
Analysis Date/Time: 02-12-2019 1619 **Method:** HS/GC/MS (Internal Method-002) **Deviations from SOP:**
Analyst: KWF **Instrument:** Agilent 7890/5975 None

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



Terpenoid Distribution

(% of Total Terpenes)



Reporting Limit ($\mu\text{g/g}$) 14

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

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"-" not detected above reporting limit

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

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