

CERTIFICATE OF ANALYSIS

Project: CBD
Order ID: 2019000529

Customer ID: 54755766
Customer Name: CBD Plus USA

Harvest/Extract Lot: 2121
Harvest/Extract Date:

Cultivar (Strain): BS Distillate
Sample Date: 02/27/2019

Lab ID: 2019001940
Date Received: 02/27/2019

Sample Matrix: Concentrate
Date Completed: 03/04/2019

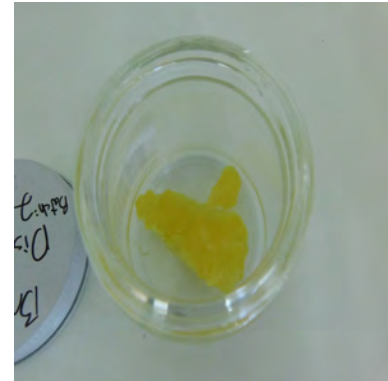
Remarks:

Analysis Date/Time: 03-04-2019 1606
Analyst: KWF

Method: HPLC/UV
Instrument: Agilent 1100

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

<u>Cannabinoid</u>	<u>Result (%)</u>	<u>Result (mg/g)</u>	<u>Reporting Limit (mg/g)</u>	<u>Per Unit (mg)</u>
CBD	93.8	938	0.100	938
CBDa	<RL	<RL	0.100	-
CBDv	<RL	<RL	0.100	-
Δ9-THC	<RL	<RL	0.100	-
Δ8-THC	<RL	<RL	0.100	-
THCa	<RL	<RL	0.100	-
CBC	2.37	23.7	0.100	23.7
CBG	<RL	<RL	0.100	-
CBGa	<RL	<RL	0.100	-
CBN	0.780	7.80	0.100	7.80
TOTAL	98.6	970		



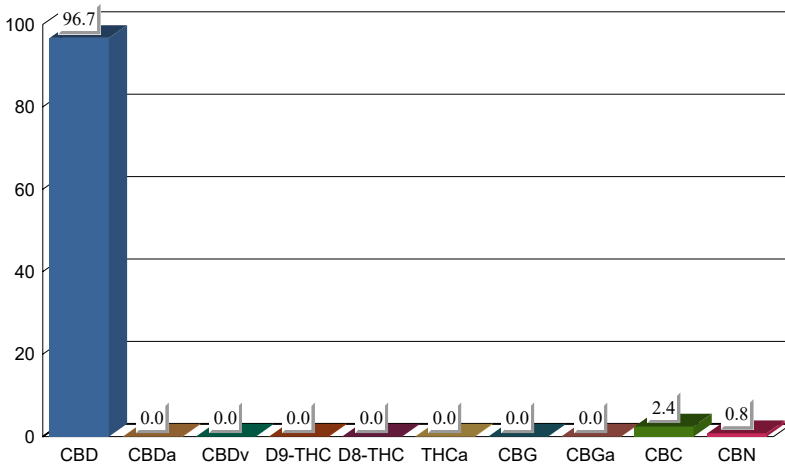
UNIT MASS (g): 1.00

TOTAL THC <RL <RL -
TOTAL CBD 93.8 938 938

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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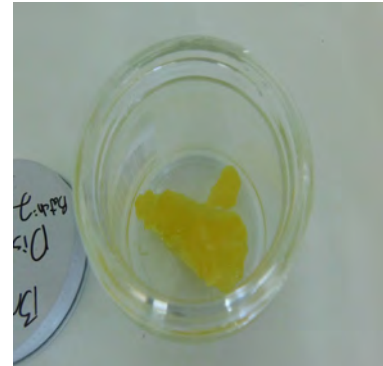
TERPENOID PROFILE

Analysis Date/Time: 03-03-2019 1856 **Method:** HS/GC/MS (Internal Method-002)
Analyst: KWF

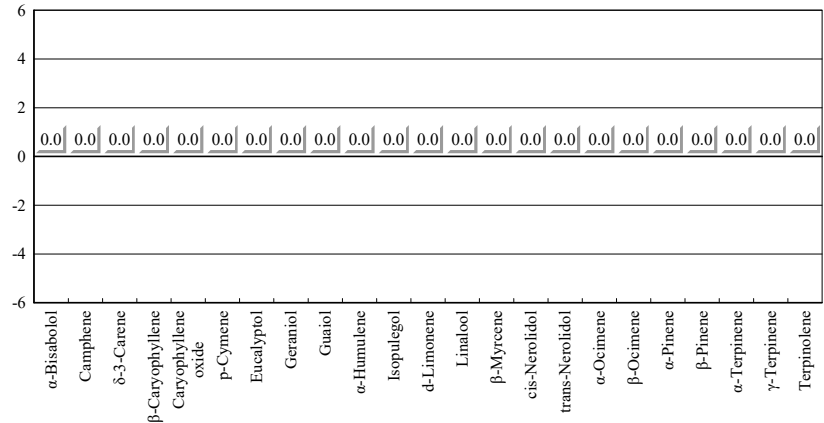
Instrument: Agilent 7890/5975

Deviations from SOP:
None

<u>Terpene</u>	<u>Result</u> <u>(µg/g)</u>	<u>Result</u> <u>(%, total terpenes)</u>
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 (µg/g) 13

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

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