

CERTIFICATE OF ANALYSIS

Project: CBD **Customer ID:** 54755766 **Harvest/Extract Lot:** GP 12/18a
Order ID: 2019000336 **Customer Name:** CBD Plus USA **Harvest/Extract Date:**

Cultivar (Strain): Iso Pepper. (1000) **Lab ID:** 2019001272 **Sample Matrix:** Oil/Tincture
Sample Date: 02/12/2019 **Date Received:** 02/12/2019 **Date Completed:** 02/12/2019

Remarks:

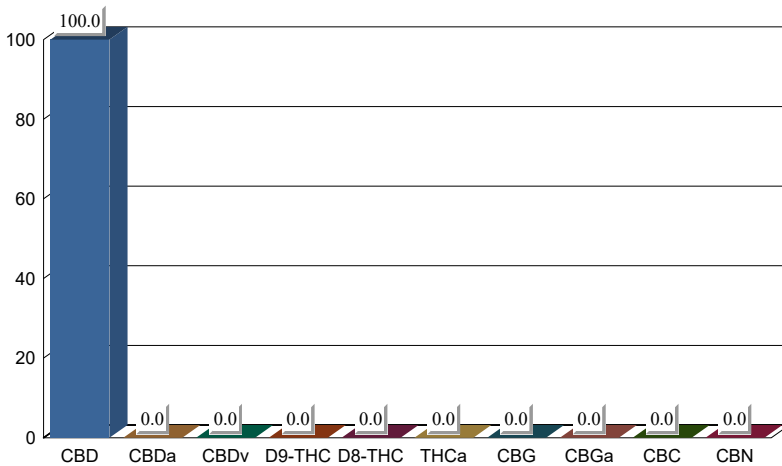
Analysis Date/Time: 02-12-2019 1337 **Method:** HPLC/UV **Moisture Content (%):** -
Analyst: KWF **Instrument:** Agilent 1100 **Water Activity (aw):** - at - °C

<u>Cannabinoid</u>	<u>Result</u> <u>(%)</u>	<u>Result</u> <u>(mg/mL)</u>	<u>Reporting Limit</u> <u>(mg/mL)</u>	<u>Per Unit</u> <u>(mg)</u>
CBD	3.39	33.9	0.05	1016
CBDa	<RL	<RL	0.05	-
CBDv	<RL	<RL	0.05	-
Δ9-THC	<RL	<RL	0.05	-
Δ8-THC	<RL	<RL	0.05	-
THCa	<RL	<RL	0.05	-
CBC	<RL	<RL	0.05	-
CBG	<RL	<RL	0.05	-
CBGa	<RL	<RL	0.05	-
CBN	<RL	<RL	0.05	-
TOTAL	6.78	33.9		1016



TOTAL THC <RL <RL -
TOTAL CBD 3.39 33.9 1016 *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

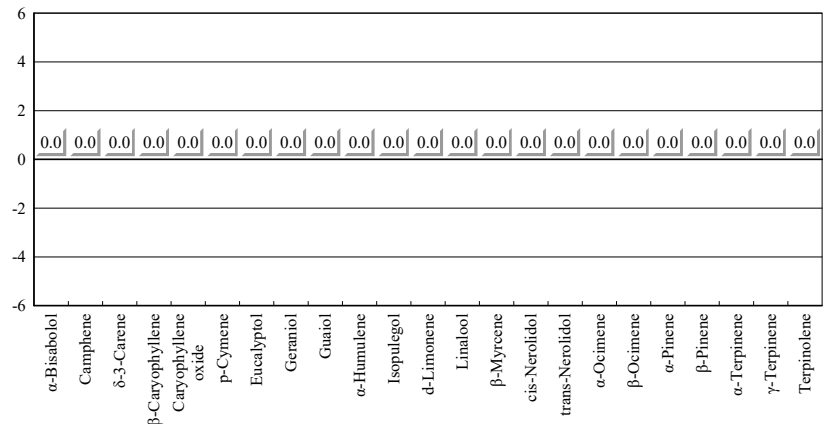
Analysis Date/Time: 02-12-2019 1552 **Method:** HS/GC/MS (Internal Method-002) **Deviations from SOP:**
Analyst: KWF **Instrument:** Agilent 7890/5975 None

<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 ($\mu\text{g/g}$) 17

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

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"-" not detected above reporting limit

Kyle W. Felling
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