

CERTIFICATE OF ANALYSIS

Order Type: Medical Cannabis
Order ID: OR2019-2947

Customer ID: 32
Customer Name: CBD Plus USA

Harvest/Extract Lot: None
Harvest/Extract Batch: None

Cultivar (Strain): Otto
Sample Date: 08/13/2019

Lab ID: SA2019-9428
Date Received: 08/13/2019

Sample Matrix: Flower
Date Completed: 08/14/2019

Remarks:

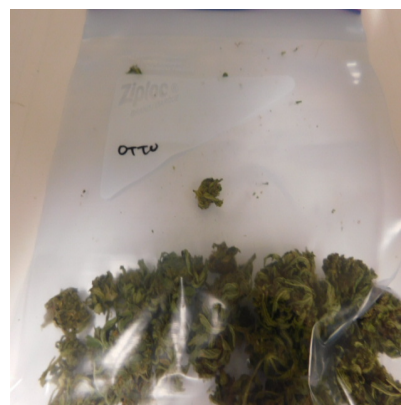
CANNABINOID (POTENCY) PROFILE

Analysis Date/Time: 08/13/2019 2117
Analyst: OL

Method: HPLC/DAD (Internal Method-001)
Instrument: Agilent 1100

Moisture Content (%): 9.2
Water Activity (aw): 0.5556 @ 25.05°C

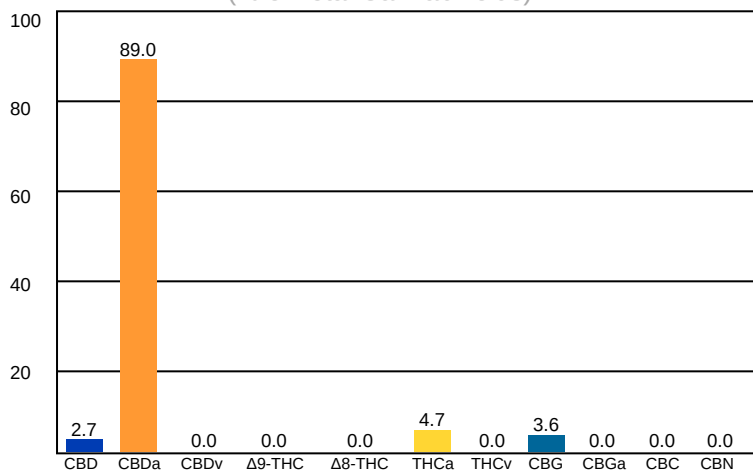
Cannabinoid	Result (%)	Result (mg/g)	Reporting Limit (mg/g)	Result (mg/mL)	Per Unit (mg)
CBD	0.3	3	0.0504	-	3
CBDa	10.1	101	0.0504	-	101
CBDv	-	-	0.0504	-	-
Δ9-THC	-	-	0.0504	-	-
Δ8-THC	-	-	0.0504	-	-
THCa	0.537	5.37	0.0504	-	5
THCv	-	-	0.0504	-	-
CBC	-	-	0.0504	-	-
CBG	0.408	4.08	0.0504	-	4
CBGa	-	-	0.0504	-	-
CBN	-	-	0.0504	-	-
TOTAL	11.3	103			113
TOTAL THC	0.471	4.28			5
TOTAL CBD	9.13	83			91



UNIT MASS (g): 1

"-" Not detected above RL.

Cannabinoid Distribution
 (% of Total Cannabinoids)



Deviations from standard operating procedure: None

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: 08/13/2019 2117
Analyst: OL

Method: HS/GC/FID (Internal Method-002)
Instrument: Agilent 6890

Deviations from SOP:
 None

Terpene	Result (µg/g)	Result (%)	
α-Bisabolol	85	0.00851	■
Camphene	-	-	
δ-3-Carene	-	-	
β-Caryophyllene	-	-	
Caryophyllene oxide	25	0.00248	■
p-Cymene	-	-	
Eucalyptol	-	-	
Geraniol	-	-	
Guaiol	57	0.00572	■
α-Humulene	27	0.00274	■
Isopulegol	-	-	
d-Limonene	-	-	
Linalool	-	-	
β-Myrcene	-	-	
cis-Nerolidol	121	0.0121	■
trans-Nerolidol	13	0.00133	■
α-Ocimene	-	-	
β-Ocimene	-	-	
α-Pinene	257	0.0257	■
β-Pinene	-	-	
α-Terpinene	-	-	
γ-Terpinene	-	-	
Terpinolene	40	0.00396	■
TOTAL	626	0.0626	



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

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Reporting Limit (µg/g): 10.2

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 Kyle W. Felling, Ph.D.
 Laboratory Director