

CERTIFICATE OF ANALYSIS

Order Type: CBD **Customer ID:** 32 **Harvest/Extract Lot:** None
Order ID: OR2019-4110 **Customer Name:** CBD Plus USA **Harvest/Extract Batch:** None

Cultivar (Strain): Real OG Pre Roll **Lab ID:** SA2019-13187 **Sample Matrix:** Industrial Hemp
Sample Date: 09/26/2019 **Date Received:** 09/26/2019 **Date Completed:** 10/06/2019

Remarks:

CANNABINOID (POTENCY) PROFILE

Analysis Date/Time: 09/27/2019 1744 **Method:** HPLC/DAD (Internal Method-001) **Moisture Content (%):** -
Analyst: OL **Instrument:** Agilent 1100 **Water Activity (aw):** -

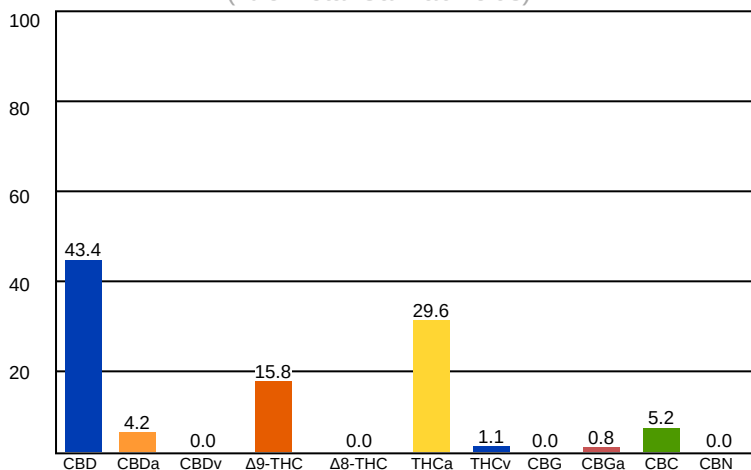
Cannabinoid	Result (%)	Result (mg/g)	Reporting Limit (mg/g)	Result (mg/mL)	Per Unit (mg)
CBD	3.46	34.6	0.0515	-	35
CBDa	0.333	3.33	0.0515	-	3
CBDv	-	-	0.0515	-	-
Δ9-THC	1.26	12.6	0.0515	-	13
Δ8-THC	-	-	0.0515	-	-
THCa	2.36	23.6	0.0515	-	24
THCv	0.0859	0.859	0.0515	-	0.859
CBC	0.412	4.12	0.0515	-	4
CBG	-	-	0.0515	-	-
CBGa	0.0601	0.601	0.0515	-	0.601
CBN	-	-	0.0515	-	-
TOTAL	7.97	80			80
TOTAL THC	3.33	33.3			33
TOTAL CBD	3.75	37			37



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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Sample Matrix: Industrial Hemp

Date Completed: 10/06/2019

Remarks:

TERPENOID PROFILE

Analysis Date/Time: 09/27/2019 1744

Analyst: OL

Method: HS/GC/FID (Internal Method-002)

Instrument: Agilent 6890

Deviations from SOP:

None

Terpene	Result (µg/g)	Result (%)	
α-Bisabolol	3	0.000342	■
Camphene	-	-	
δ-3-Carene	-	-	
β-Caryophyllene	11	0.00107	■
Caryophyllene oxide	0	4.4e-05	
p-Cymene	-	-	
Eucalyptol	-	-	
Geraniol	-	-	
Guaiol	0	1.6e-05	
α-Humulene	4	0.000422	■
Isopulegol	-	-	
d-Limonene	-	-	
Linalool	0	4.6e-05	
β-Myrcene	0	1e-05	
cis-Nerolidol	-	-	
trans-Nerolidol	-	-	
α-Ocimene	-	-	
β-Ocimene	-	-	
α-Pinene	-	-	
β-Pinene	-	-	
α-Terpinene	-	-	
γ-Terpinene	-	-	
Terpinolene	-	-	
TOTAL	20	0.00195	



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

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Reporting Limit (µg/g): 2

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Kyle W. Felling
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