

## CERTIFICATE OF ANALYSIS

**Order Type:** Medical Cannabis  
**Order ID:** OR2019-997

**Customer ID:** 32  
**Customer Name:** CBD Plus USA

**Harvest/Extract Lot:** 1900408SAP13  
**Harvest/Extract Batch:** None

**Cultivar (Strain):** Sleeper  
**Sample Date:** 04/05/2019

**Lab ID:** SA2019-3430  
**Date Received:** 04/08/2019

**Sample Matrix:** Flower  
**Date Completed:** 04/09/2019

**Remarks:**

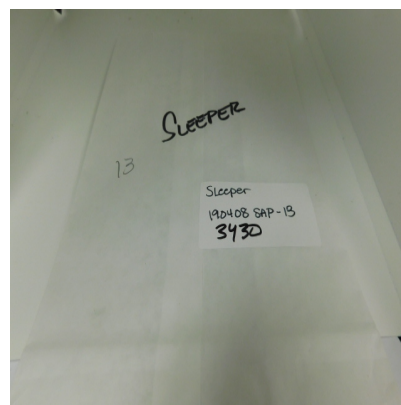
**CANNABINOID (POTENCY) PROFILE**

**Analysis Date/Time:** 04/08/2019 2235  
**Analyst:** OL

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

**Moisture Content (%):** -  
**Water Activity (aw):** -

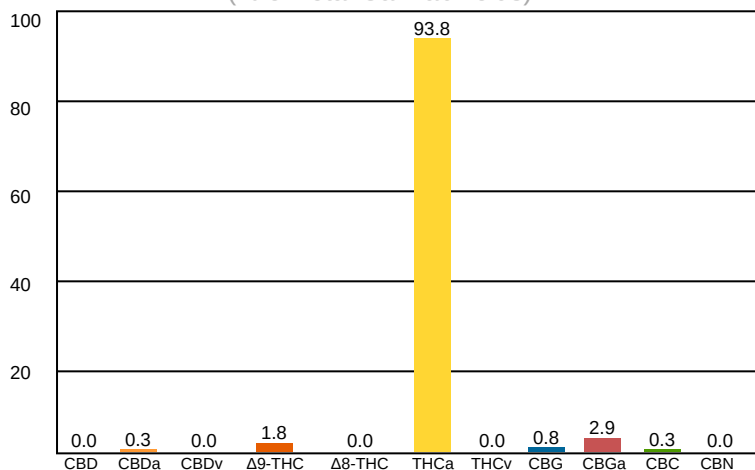
Cannabinoid	Result (%)	Result (mg/g)	Reporting Limit (mg/g)	Per Unit (mg)
CBD	-	-	0.0301	-
CBDa	0.0557	0.557	0.0301	0.557
CBDv	-	-	0.0301	-
Δ9-THC	0.304	3.04	0.0301	3.04
Δ8-THC	-	-	0.0301	-
THCa	15.5	155	0.0301	155
THCv	-	-	0.0301	-
CBC	0.0563	0.563	0.0301	0.563
CBG	0.13	1.3	0.0301	1.3
CBGa	0.48	4.8	0.0301	4.8
CBN	-	-	0.0301	-
<b>TOTAL</b>	<b>16.5</b>	<b>165</b>		<b>165</b>
<b>TOTAL THC</b>	<b>13.9</b>	<b>139</b>		<b>139</b>
<b>TOTAL CBD</b>	<b>0.0489</b>	<b>0.489</b>		<b>0.489</b>



**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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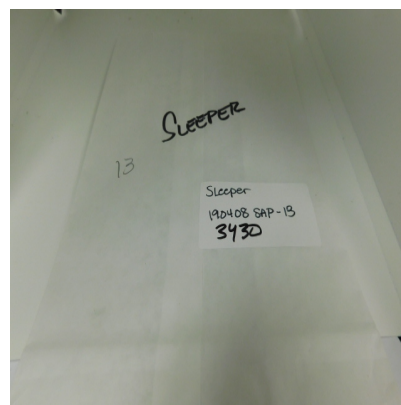
### TERPENOID PROFILE

**Analysis Date/Time:** 04/08/2019 2235  
**Analyst:** OL

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

**Deviations from SOP:**  
 None

Terpene	Result (µg/g)	Result (%)	
α-Bisabolol	69	0.0069	
Camphene	203	0.0203	
δ-3-Carene	-	-	
β-Caryophyllene	461	0.0461	
Caryophyllene oxide	-	-	
p-Cymene	-	-	
Eucalyptol	-	-	
Geraniol	-	-	
Guaiol	58	0.0058	
α-Humulene	155	0.0155	
Isopulegol	23	0.00235	
d-Limonene	6526	0.653	█
Linalool	1194	0.119	█
β-Myrcene	549	0.0549	
cis-Nerolidol	588	0.0588	
trans-Nerolidol	32	0.00321	
α-Ocimene	41	0.00415	
β-Ocimene	-	-	
α-Pinene	756	0.0756	
β-Pinene	1287	0.129	█
α-Terpinene	-	-	
γ-Terpinene	-	-	
Terpinolene	67	0.00666	
<b>TOTAL</b>	<b>12011</b>	<b>1.2</b>	



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

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**Reporting Limit (µg/g): 12.3**

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