

## CERTIFICATE OF ANALYSIS

**Order Type:** Medical Cannabis  
**Order ID:** OR2019-1225

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

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

**Cultivar (Strain):** 125mg CBD  
 grapefruit vape pen "select"  
**Sample Date:** 04/23/2019

**Lab ID:** SA2019-4352  
**Date Received:** 04/23/2019

**Sample Matrix:** Concentrate  
**Date Completed:** 04/29/2019

### Remarks:

### CANNABINOID (POTENCY) PROFILE

**Analysis Date/Time:** 04/27/2019 0031  
**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	14.4	144	0.214	144
CBDa	-	-	0.214	-
CBDv	-	-	0.214	-
Δ9-THC	-	-	0.214	-
Δ8-THC	-	-	0.214	-
THCa	-	-	0.214	-
THCv	-	-	0.214	-
CBC	-	-	0.214	-
CBG	-	-	0.214	-
CBGa	-	-	0.214	-
CBN	-	-	0.214	-



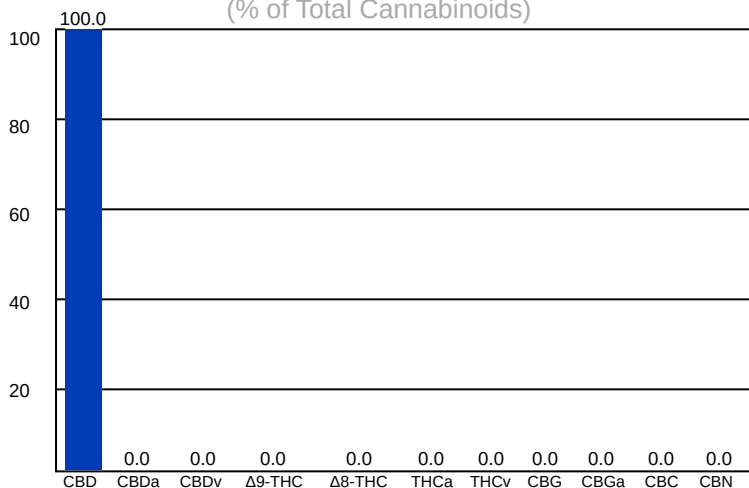
<b>TOTAL</b>	14.4	144		144
<b>TOTAL THC</b>	-	-		-
<b>TOTAL CBD</b>	14.4	144		144

**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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 Felling Analytical Services and Technology (F.A.S.T.), LLC

*Kyle W. Felling*  
 Kyle W. Felling, Ph.D.  
 Laboratory Director

[www.FASTLaboratories.com](http://www.FASTLaboratories.com)

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**Remarks:**

**TERPENOID PROFILE**

**Analysis Date/Time:** 04/27/2019 0031  
**Analyst:** OL

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

**Deviations from SOP:**  
None

<u>Terpene</u>	<u>Result</u> <u>(µg/g)</u>	<u>Result</u> <u>(%)</u>
α-Bisabolol	-	-
Camphene	-	-
δ-3-Carene	-	-
β-Caryophyllene	-	-
Caryophyllene oxide	-	-
p-Cymene	-	-
Eucalyptol	-	-
Geraniol	-	-
Guaiol	-	-
α-Humulene	-	-
Isopulegol	-	-
d-Limonene	-	-
Linalool	-	-
β-Mycene	-	-
cis-Nerolidol	-	-
trans-Nerolidol	-	-
α-Ocimene	-	-
β-Ocimene	-	-
α-Pinene	-	-
β-Pinene	-	-
α-Terpinene	-	-
γ-Terpinene	-	-
Terpinolene	-	-
<b>TOTAL</b>	0	0



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

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**Reporting Limit (µg/g): 10.3**

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Laboratory Director

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