

## SUMMARY OF ANALYSIS (SAMPLE ID: SA26290)

<b>Testing Location:</b> OKC 3680 E. I-240 Service Rd. Oklahoma City, OK 73135 License: LAAA-4Y4X-Z72Z	<b>Customer ID:</b> 32 CBD Plus USA 420 N Pennsylvania Ave Oklahoma City, OK 73107 License: Not Entered or N/A	<b>Order ID:</b> OR8179 <b>Lot Number:</b> Grove Bag <b>Batch Number:</b> Not Entered	<b>Sample Type:</b> Primary <b>Matrix:</b> Industrial Hemp <b>Mass:</b> 2g <b>Date Collected:</b> 04/27/2020 <b>Date Received:</b> 04/27/2020
<b>Cultivar (Strain) or Sample Description:</b> Hemp Flower - CBDawg			<b>Date Completed:</b> 04/29/2020

\*This page is simply a summary of the analysis performed. For analytical details, please consult the individual Certificate(s) of Analysis for each of the specific test(s) performed.

\*For Oklahoma, with the new OMMA rules to be effective April 1, 2020, limits on moisture are proposed at 15% and water activity at 0.65aw.

<b>Moisture Content (%)</b> 16.1	<b>PASS/FAIL</b> <b>PASS</b>	<b>Water Activity (aw)</b> 0.54 @ 20.9°C	<b>PASS/FAIL</b> <b>PASS</b>
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<b>Cannabinoids (Top 3)</b>	<b>(%)</b>	<b>mg/g</b>
CBDa	23.2	232
CBD	0.914	9
THCa	0.858	9
TOTAL CBD	21.2	212
TOTAL THC	0.871	9
TOTAL CANNABINOIDS	25.8	258

<b>Terpenes (Top 5)</b>	<b>(%)</b>	<b>µg/g</b>
β-Myrcene	0.221	2211
β-Caryophyllene	0.059	589
β-Ocimene	0.057	573
d-Limonene	0.056	564
α-Pinene	0.037	370
TOTAL TERPENES	0.54	5395

<b>Contaminants</b>	<b>PASS/FAIL</b>
Heavy Metals:	<b>PASS</b>
Microbiology:	<b>PASS</b>
Mycotoxins:	<b>PASS</b>
Pesticides:	<b>PASS</b>
Visual Inspection:	<b>PASS</b>



Scan the QR code to verify results.

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



## CERTIFICATE OF ANALYSIS (SAMPLE ID: SA26290)

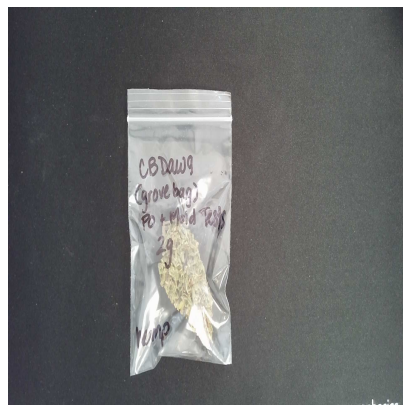
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**Cultivar (Strain) or Sample Description:** Hemp Flower - CBDawg **Date Completed:** 04/29/2020

### CANNABINOID (POTENCY) PROFILE

**Analysis Date/Time:** 04/28/2020 1129      **Method:** HPLC/DAD      **Moisture Content (%):** 16.1  
**Analyst:** WW      **Instrument:** Agilent 1100      **Water Activity (aw):** 0.5402 @ 20.91Å°C

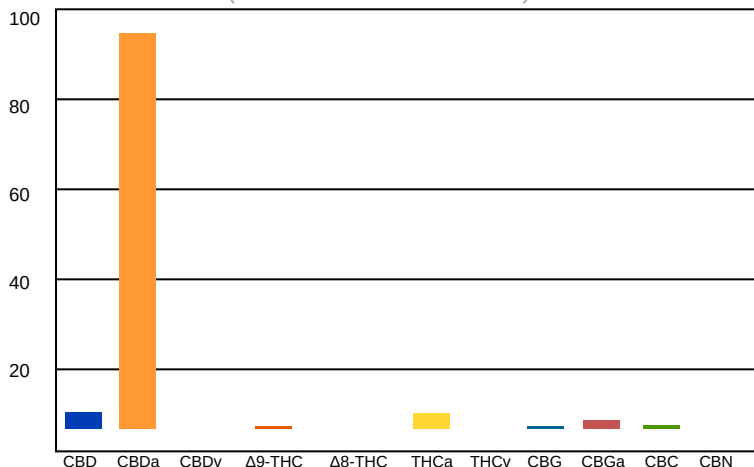
Cannabinoid	Result (%)	Result (mg/g)	Reporting Limit (mg/g)	Result (mg/mL)	Per Unit (mg)
CBD	0.914	9.14	0.0497	-	9
CBDa	23.2	232	0.0497	-	232
CBDv	0.00867	0.0867	0.0497	-	0.0867
Δ9-THC	0.118	1.18	0.0497	-	1.18
Δ8-THC	-	-	0.0497	-	-
THCa	0.858	8.58	0.0497	-	9
THCv	-	-	0.0497	-	-
CBC	0.155	1.55	0.0497	-	1.55
CBG	0.0973	0.973	0.0497	-	0.973
CBGa	0.49	4.9	0.0497	-	5
CBN	-	-	0.0497	-	-
<b>TOTAL</b>	<b>25.8</b>	<b>258</b>			<b>258</b>
<b>TOTAL THC</b>	<b>0.871</b>	<b>8.71</b>			<b>9</b>
<b>TOTAL CBD</b>	<b>21.2</b>	<b>212</b>			<b>212</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

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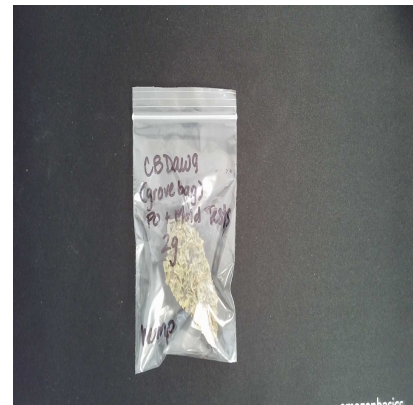
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<b>Cultivar (Strain) or Sample Description:</b> Hemp Flower - CBDawg			<b>Date Completed:</b> 04/29/2020

## TERPENOID PROFILE

**Analysis Date/Time:** 04/28/2020 1129      **Method:** HS/GC/FID (Internal Method-002)      **Deviations from SOP:**  
**Analyst:** DJ      **Instrument:** Agilent 6890      None

<u>Terpene</u>	<u>Result (µg/g)</u>	<u>Result (%)</u>	
α-Bisabolol	219	0.0219	■
Camphene	-	-	
δ-3-Carene	-	-	
β-Caryophyllene	589	0.0589	■
Caryophyllene oxide	58	0.00581	■
p-Cymene	-	-	
Eucalyptol	-	-	
Geraniol	-	-	
Guaiol	-	-	
α-Humulene	231	0.0231	■
Isopulegol	-	-	
d-Limonene	564	0.0564	■
Linalool	138	0.0138	■
β-Myrcene	2211	0.221	■
cis-Nerolidol	-	-	
trans-Nerolidol	219	0.0219	■
α-Ocimene	84	0.00835	■
β-Ocimene	573	0.0573	■
α-Pinene	370	0.037	■
β-Pinene	139	0.0139	■
α-Terpinene	-	-	
γ-Terpinene	-	-	
Terpinolene	-	-	
<b>TOTAL</b>	<b>5395</b>	<b>0.54</b>	



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

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"-" Not detected above RL.

**Reporting Limit (µg/g): 1.99**

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**Cultivar (Strain) or Sample Description:** Hemp Flower - CBDawg **Date Completed:** 04/29/2020

**PESTICIDES PROFILE**

**Analysis Date/Time:** 04/28/2020 1129  
**Analyst:** DJ

**Method:** LC/MS/MS  
**Instrument:** Waters Acquity/TQD

**Deviations from SOP:**  
None

<u>Pesticide</u>	<u>Result (µg/g)</u>	<u>Action Level (µg/g)</u>
Abamectin (71751-41-2)	-	0.5
Azoxystrobin (131860-33-8)	-	0.5
Bifenazate* (149877-41-8)	-	0.5
Etoazazole (153233-91-1)	-	0.5
Imazalil (35554-44-0)	-	0.5
Imidacloprid (138261-41-3)	-	0.5
Malathion (121-75-5)	-	0.5
Myclobutanil (88671-89-0)	-	0.5
Permethrins* (52645-53-1)	-	0.5
Spinosad A (168316-95-8)	-	0.5
Spinosad D (168316-95-8)	-	0.5
Spiromesifen (283594-90-1)	-	0.5
Spirotetramat (203313-25-1)	-	0.5
Tebuconazole (80443-41-0)	-	0.5

**Color Key**

RESULT < 1/2 AL
1/2 AL < RESULT < AL
RESULT > AL



**Reporting Limit (µg/g)**  
1/2 of AL

"-" not detected above reporting limit

"\*" analyzed by GC/MS (all others analyzed by LC/MS/MS)

Permethrins measured as the cumulative residue of the *cis*- and *trans*-permethrin isomers.

**Abbreviations:** LC - Liquid Chromatography, GC - Gas Chromatography, MS - Mass Spectrometry, RL - Reporting Limit, AL - Action Level, CAS - Chemical Abstract Services

<u>Pesticide</u>	<u>Synonym(s)</u>	<u>Pesticide</u>	<u>Synonym(s)</u>	<u>Pesticide</u>	<u>Synonym(s)</u>
Cyfluthrin	Baythroid	Myclobutanil	Sythane	Propiconazole	Tilt
DDVP	Dichlorvos	Naled	Dibrom	Propoxur	Baygon
Ethoprophos	Prophos	Phosmet	Imidan		

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### MYCOTOXIN PROFILE

**Analysis Date/Time:** 04/28/2020 1129

**Method:** LC/MS/MS

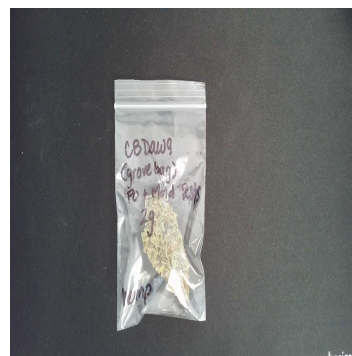
**Deviations from SOP:**

**Analyst:** DJ

**Instrument:** Waters Acquity/TQD

None

<u>Mycotoxin</u>	<u>Result</u> (µg/kg)	<u>Action Level</u> (µg/kg)
Aflatoxin B1	-	20
Aflatoxin B2	-	20
Aflatoxin G1	-	20
Aflatoxin G2	-	20
Ochratoxin A	-	20



*Abbreviations:* EC - Escherichia Coli, CFU - Colony-Forming Unit, RL - Reporting Limit, AL - Action Level

#### Color Key

RESULT < 1/2 AL
1/2 AL < RESULT < AL
RESULT > AL

**Reporting Limit (CFU/g)**

1

"-" not detected above reporting limit

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**HEAVY METAL PROFILE**

**Analysis Date/Time:** 04/28/2020 1129  
**Analyst:** CC

**Method:** ICP/MS  
**Instrument:** PerkinElmer Elan 9000

**Deviations from SOP:**  
None

<u>Heavy Metal</u>	<u>Result (µg/kg)</u>	<u>Action Level (µg/kg)</u>
Arsenic (As)	-	400
Cadmium (Cd)	-	440
Lead (Pb)	-	1000
Mercury (Hg)	-	200



*Abbreviations:* ICP - Inductively-Coupled Plasma, OES - Optical Emission Spectroscopy, MS - Mass Spectroscopy, RL - Reporting Limit, AL - Action Level

**Color Key**

RESULT < 1/2 AL
1/2 AL < RESULT < AL
RESULT > AL

**Reporting Limit (µg/kg)**  
50

"-" not detected above reporting limit

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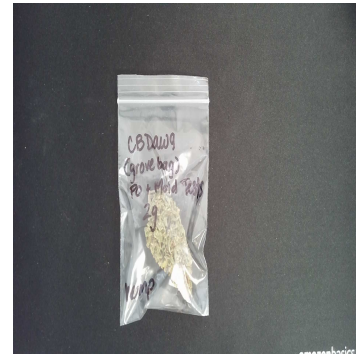
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**MICROBIOLOGICAL PROFILE**

**Analysis Date/Time:** 04/28/2020 1129      **Method:** Hardy Diagnostics CompactDry      **Deviations from SOP:**  
**Analyst:** DJ      **Instrument:** Thermo Incubator      None

<u>Bacteria/Microbe</u>	<u>Result (CFU/g)</u>	<u>Action Level (CFU/g)</u>
Aerobic Plate Count, Total	TNTC	-
Escherichia Coli (E. Coli)	Absent	1
Mold/Yeast	Absent	10000
Salmonella spp.	Absent	1
Staphylococcus Aureus	Absent	1



*Abbreviations:* EC - Escherichia Coli, CFU - Colony-Forming Unit, RL - Reporting Limit, AL - Action Level, TNTC - Too Numerous To Count, NT - Not Tested  
Absent - Not Detected Above RL, Present - Detected Above RL

**Color Key**

RESULT < 1/2 AL
1/2 AL < RESULT < AL
RESULT > AL

**Reporting Limit (CFU/g)**

1

"-" not detected above reporting limit

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