

SUMMARY OF ANALYSIS (SAMPLE ID: SA26289)

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

Moisture Content (%) 13.5	PASS/FAIL PASS	Water Activity (aw) 0.42 @ 20.9°C	PASS/FAIL PASS
-------------------------------------	---------------------------------	---	---------------------------------

Cannabinoids (Top 3)	(%)	mg/g
CBDa	19.9	199
THCa	0.769	8
CBD	0.579	6
TOTAL CBD	18.1	181
TOTAL THC	0.753	8
TOTAL CANNABINOIDS	21.9	219

Terpenes (Top 5)	(%)	µg/g
β-Myrcene	0.218	2177
β-Ocimene	0.046	458
β-Caryophyllene	0.041	410
α-Bisabolol	0.037	373
d-Limonene	0.036	362
TOTAL TERPENES	0.502	5017

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



Scan the QR code to verify results.

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

This report shall not be reproduced, except in full, without the written consent of Felling Analytical Services and Technology of Oklahoma City, LLC

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



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA26289)

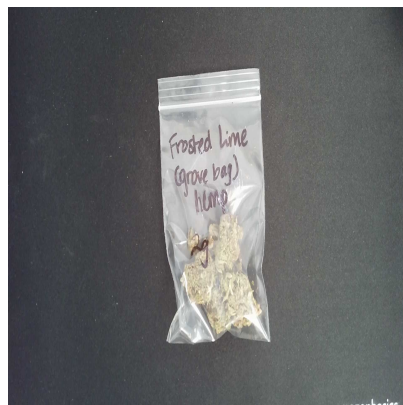
Testing Location: OKC 3680 E. I-240 Service Rd. Oklahoma City, OK 73135 License: LAAA-4Y4X-Z72Z	Customer ID: 32 CBD Plus USA 420 N Pennsylvania Ave Oklahoma City, OK 73107 License: Not Entered or N/A	Order ID: OR8179 Lot Number: Grove Bag Batch Number: Not Entered	Sample Type: Primary Matrix: Industrial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

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

CANNABINOID (POTENCY) PROFILE

Analysis Date/Time: 04/28/2020 1126 **Method:** HPLC/DAD **Moisture Content (%):** 13.5
Analyst: WW **Instrument:** Agilent 1100 **Water Activity (aw):** 0.4186 @ 20.92Å°C

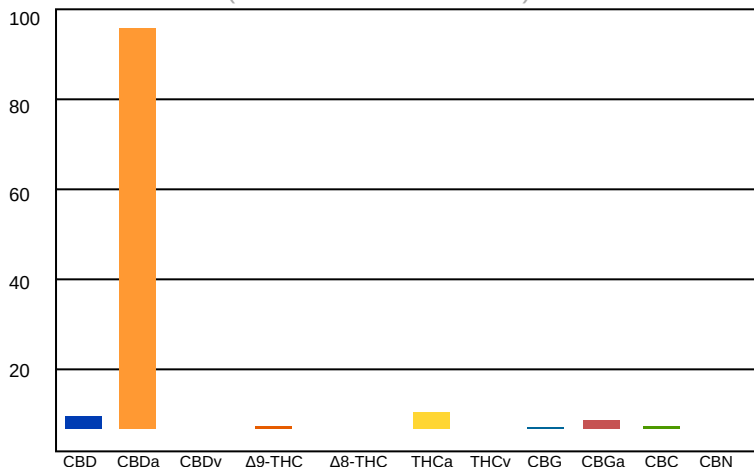
<u>Cannabinoid</u>	<u>Result (%)</u>	<u>Result (mg/g)</u>	<u>Reporting Limit (mg/g)</u>	<u>Result (mg/mL)</u>	<u>Per Unit (mg)</u>
CBD	0.579	5.79	0.0508	-	6
CBDa	19.9	199	0.0508	-	199
CBDv	-	-	0.0508	-	-
Δ9-THC	0.0782	0.782	0.0508	-	0.782
Δ8-THC	-	-	0.0508	-	-
THCa	0.769	7.69	0.0508	-	8
THCv	-	-	0.0508	-	-
CBC	0.101	1.01	0.0508	-	1.01
CBG	0.0676	0.676	0.0508	-	0.676
CBGa	0.395	3.95	0.0508	-	4
CBN	-	-	0.0508	-	-
TOTAL	21.9	219			219
TOTAL THC	0.753	7.53			8
TOTAL CBD	18.1	181			181



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

This report shall not be reproduced, except in full, without the written consent of Felling Analytical Services and Technology of Oklahoma City, LLC

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



SUMMARY OF ANALYSIS (SAMPLE ID: SA26289)

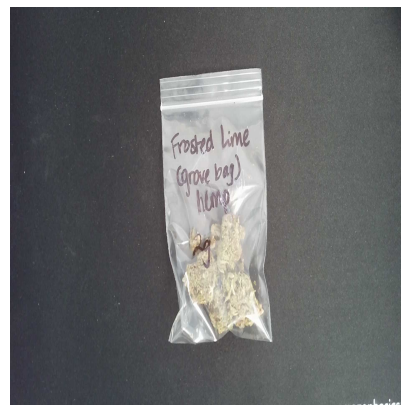
Testing Location: OKC 3680 E. I-240 Service Rd. Oklahoma City, OK 73135 License: LAAA-4Y4X-Z72Z	Customer ID: 32 CBD Plus USA 420 N Pennsylvania Ave Oklahoma City, OK 73107 License: Not Entered or N/A	Order ID: OR8179 Lot Number: Grove Bag Batch Number: Not Entered	Sample Type: Primary Matrix: Industrial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

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

TERPENOID PROFILE

Analysis Date/Time: 04/28/2020 1126 **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	373	0.0373	■
Camphene	63	0.00628	■
δ-3-Carene	-	-	
β-Caryophyllene	410	0.041	■
Caryophyllene oxide	77	0.00769	■
p-Cymene	54	0.00541	■
Eucalyptol	-	-	
Geraniol	91	0.00907	■
Guaiol	-	-	
α-Humulene	190	0.019	■
Isopulegol	-	-	
d-Limonene	362	0.0362	■
Linalool	152	0.0152	■
β-Myrcene	2177	0.218	■
cis-Nerolidol	-	-	
trans-Nerolidol	-	-	
α-Ocimene	82	0.00818	■
β-Ocimene	458	0.0458	■
α-Pinene	349	0.0349	■
β-Pinene	179	0.0179	■
α-Terpinene	-	-	
γ-Terpinene	-	-	
Terpinolene	-	-	
TOTAL	5017	0.502	



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

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.

"-" Not detected above RL.

Reporting Limit (µg/g): 2.03

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Felling Analytical Services and Technology of Oklahoma City, LLC

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

www.FASTLaboratories.com



SUMMARY OF ANALYSIS (SAMPLE ID: SA26289)

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

PESTICIDES PROFILE

Analysis Date/Time: 04/28/2020 1126
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		

Disclaimer: 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

This report shall not be reproduced, except in full, without the written consent of Felling Analytical Services and Technology of Oklahoma City, LLC

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



SUMMARY OF ANALYSIS (SAMPLE ID: SA26289)

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

MYCOTOXIN PROFILE

Analysis Date/Time: 04/28/2020 1126
Analyst: DJ

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

Deviations from SOP:
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

Disclaimer: 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

This report shall not be reproduced, except in full, without the written consent of Felling Analytical Services and Technology of Oklahoma City, LLC

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



SUMMARY OF ANALYSIS (SAMPLE ID: SA26289)

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

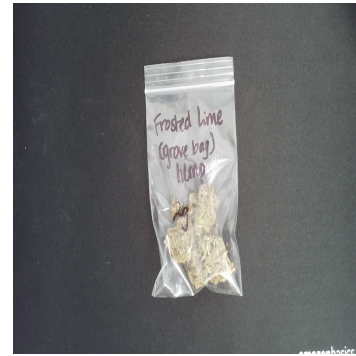
HEAVY METAL PROFILE

Analysis Date/Time: 04/28/2020 1126
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

Disclaimer: 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

This report shall not be reproduced, except in full, without the written consent of Felling Analytical Services and Technology of Oklahoma City, LLC

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



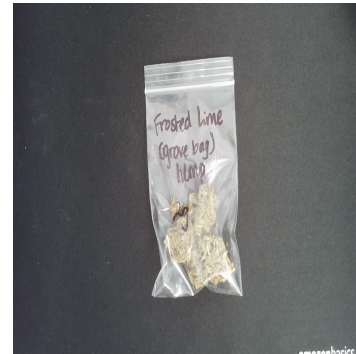
SUMMARY OF ANALYSIS (SAMPLE ID: SA26289)

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

MICROBIOLOGICAL PROFILE

Analysis Date/Time: 04/28/2020 1126 **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

Disclaimer: 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

This report shall not be reproduced, except in full, without the written consent of Felling Analytical Services and Technology of Oklahoma City, LLC

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

