

SUMMARY OF ANALYSIS (SAMPLE ID: SA2020-23214)

Testing Location: OKC 3680 E. I-240 Service Rd. Oklahoma City, OK 73135	Customer ID: 1823 Altum Group 22900 W Skelly Rd Haskell, OK 74436 License: GAAA-4K7V-ISMN	Order ID: OR2020-7312 Lot Number: Not Entered Batch Number: 144100000014275	Sample Type: Primary Matrix: Flower Mass: 6g Date Collected: 02/26/2020 Date Received: 02/26/2020
Cultivar (Strain) or Sample Description: Capstone			Date Completed: 03/02/2020

*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 (%) 12.6	PASS/FAIL PASS	Water Activity (aw) 0.46 @ 22.0°C	PASS/FAIL PASS
-------------------------------------	---------------------------------	---	---------------------------------

Cannabinoids (Top 3)	(%)	mg/g
THCa	19.8	198
CBGa	1.26	13
Δ9-THC	0.533	5
TOTAL CBD	0.056	0.56
TOTAL THC	17.9	179
TOTAL CANNABINOIDS	21.8	218

Terpenes (Top 5)	(%)	µg/g
β-Myrcene	0.413	4130
β-Caryophyllene	0.209	2091
α-Humulene	0.151	1508
Terpinolene	0.143	1428
α-Pinene	0.133	1335
TOTAL TERPENES	1.38	13841

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



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA2020-23214)

Testing Location: OKC 3680 E. I-240 Service Rd. Oklahoma City, OK 73135	Customer ID: 1823 Altum Group 22900 W Skelly Rd Haskell, OK 74436 License: GAAA-4K7V-ISMN	Order ID: OR2020-7312 Lot Number: Not Entered Batch Number: 144100000014275	Sample Type: Primary Matrix: Flower Mass: 6g Date Collected: 02/26/2020 Date Received: 02/26/2020
---	--	--	--

Cultivar (Strain) or Sample Description: Capstone **Date Completed:** 03/02/2020

CANNABINOID (POTENCY) PROFILE

Analysis Date/Time: 02/27/2020 1037 **Method:** HPLC/DAD **Moisture Content (%):** 12.55
Analyst: JI **Instrument:** Agilent 1100 **Water Activity (aw):** 0.4624 @ 21.99Å°C

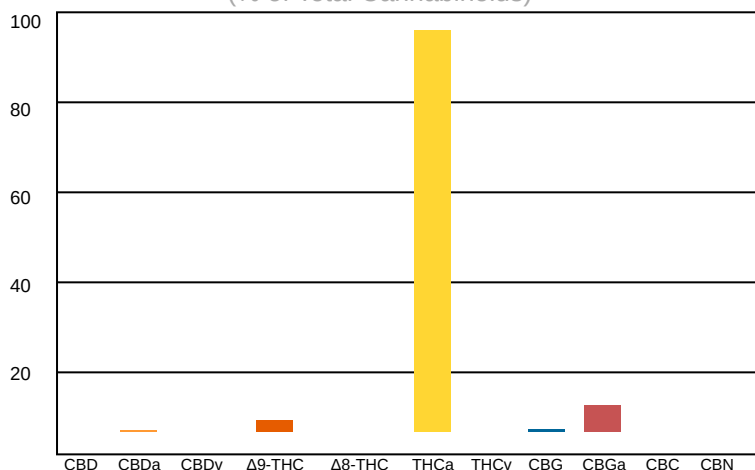
Cannabinoid	Result (%)	Result (mg/g)	Reporting Limit (mg/g)	Result (mg/mL)	Per Unit (mg)
CBD	-	-	0.0512	-	-
CBDa	0.0639	0.639	0.0512	-	0.639
CBDv	-	-	0.0512	-	-
Δ9-THC	0.533	5.33	0.0512	-	5
Δ8-THC	-	-	0.0512	-	-
THCa	19.8	198	0.0512	-	198
THCv	-	-	0.0512	-	-
CBC	-	-	0.0512	-	-
CBG	0.0697	0.697	0.0512	-	0.697
CBGa	1.26	12.6	0.0512	-	13
CBN	-	-	0.0512	-	-
TOTAL	21.8	218			218
TOTAL THC	17.9	179			179
TOTAL CBD	0.056	0.56			0.56



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



SUMMARY OF ANALYSIS (SAMPLE ID: SA2020-23214)

Testing Location: OKC 3680 E. I-240 Service Rd. Oklahoma City, OK 73135	Customer ID: 1823 Altum Group 22900 W Skelly Rd Haskell, OK 74436 License: GAAA-4K7V-ISMN	Order ID: OR2020-7312 Lot Number: Not Entered Batch Number: 144100000014275	Sample Type: Primary Matrix: Flower Mass: 6g Date Collected: 02/26/2020 Date Received: 02/26/2020
---	--	--	--

Cultivar (Strain) or Sample Description: Capstone **Date Completed:** 03/02/2020

TERPENOID PROFILE

Analysis Date/Time: 02/27/2020 1037 **Method:** HS/GC/FID (Internal Method-002) **Deviations from SOP:**
Analyst: JS **Instrument:** Agilent 6890 None

<u>Terpene</u>	<u>Result</u> <u>(µg/g)</u>	<u>Result</u> <u>(%)</u>	
α-Bisabolol	386	0.0386	■
Camphene	39	0.00395	■
δ-3-Carene	86	0.00857	■
β-Caryophyllene	2091	0.209	■
Caryophyllene oxide	106	0.0106	■
p-Cymene	-	-	
Eucalyptol	-	-	
Geraniol	-	-	
Guaiol	-	-	
α-Humulene	1508	0.151	■
Isopulegol	-	-	
d-Limonene	521	0.0521	■
Linalool	252	0.0252	■
β-Myrcene	4130	0.413	■
cis-Nerolidol	-	-	
trans-Nerolidol	-	-	
α-Ocimene	-	-	
β-Ocimene	1126	0.113	■
α-Pinene	1335	0.133	■
β-Pinene	716	0.0716	■
α-Terpinene	74	0.00741	■
γ-Terpinene	43	0.0043	■
Terpinolene	1428	0.143	■
TOTAL	13841	1.38	



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): 2.05

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



SUMMARY OF ANALYSIS (SAMPLE ID: SA2020-23214)

Testing Location: OKC 3680 E. I-240 Service Rd. Oklahoma City, OK 73135	Customer ID: 1823 Altum Group 22900 W Skelly Rd Haskell, OK 74436 License: GAAA-4K7V-ISMN	Order ID: OR2020-7312 Lot Number: Not Entered Batch Number: 144100000014275	Sample Type: Primary Matrix: Flower Mass: 6g Date Collected: 02/26/2020 Date Received: 02/26/2020
---	--	--	--

Cultivar (Strain) or Sample Description: Capstone **Date Completed:** 03/02/2020

PESTICIDES PROFILE

Analysis Date/Time: 02/27/2020 1037

Method: LC/MS/MS

Deviations from SOP:

Analyst: DJ

Instrument: Waters Acquity/TQD

None

<u>Pesticide</u>	<u>Result</u> (µg/g)	<u>Action Level</u> (µg/g)
Abamectin (71751-41-2)	-	0.5
Azoxystrobin (131860-33-8)	-	0.5
Bifenazate* (149877-41-8)	-	0.5
Etoazole (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



SUMMARY OF ANALYSIS (SAMPLE ID: SA2020-23214)

Testing Location: OKC 3680 E. I-240 Service Rd. Oklahoma City, OK 73135	Customer ID: 1823 Altum Group 22900 W Skelly Rd Haskell, OK 74436 License: GAAA-4K7V-ISMN	Order ID: OR2020-7312 Lot Number: Not Entered Batch Number: 144100000014275	Sample Type: Primary Matrix: Flower Mass: 6g Date Collected: 02/26/2020 Date Received: 02/26/2020
Cultivar (Strain) or Sample Description: Capstone			Date Completed: 03/02/2020

MYCOTOXIN PROFILE

Analysis Date/Time: 02/27/2020 1037 **Method:** LC/MS/MS **Deviations from SOP:**
Analyst: DJ **Instrument:** Waters Acquity/TQD None

<u>Mycotoxin</u>	<u>Result (µg/kg)</u>	<u>Action Level (µg/kg)</u>
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



SUMMARY OF ANALYSIS (SAMPLE ID: SA2020-23214)

Testing Location: OKC 3680 E. I-240 Service Rd. Oklahoma City, OK 73135	Customer ID: 1823 Altum Group 22900 W Skelly Rd Haskell, OK 74436 License: GAAA-4K7V-ISMN	Order ID: OR2020-7312 Lot Number: Not Entered Batch Number: 144100000014275	Sample Type: Primary Matrix: Flower Mass: 6g Date Collected: 02/26/2020 Date Received: 02/26/2020
Cultivar (Strain) or Sample Description: Capstone			Date Completed: 03/02/2020

HEAVY METAL PROFILE

Analysis Date/Time: 02/27/2020 1037 **Method:** ICP/MS **Deviations from SOP:**
Analyst: CC **Instrument:** PerkinElmer Elan 9000 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



SUMMARY OF ANALYSIS (SAMPLE ID: SA2020-23214)

Testing Location: OKC 3680 E. I-240 Service Rd. Oklahoma City, OK 73135	Customer ID: 1823 Altum Group 22900 W Skelly Rd Haskell, OK 74436 License: GAAA-4K7V-ISMN	Order ID: OR2020-7312 Lot Number: Not Entered Batch Number: 1441000000014275	Sample Type: Primary Matrix: Flower Mass: 6g Date Collected: 02/26/2020 Date Received: 02/26/2020
Cultivar (Strain) or Sample Description: Capstone			Date Completed: 03/02/2020

MICROBIOLOGICAL PROFILE

Analysis Date/Time: 02/27/2020 1037 **Method:** Hardy Diagnostics CompactDry **Deviations from SOP:**
Analyst: KB **Instrument:** Thermo Incubator None

<u>Bacteria/Microbe</u>	<u>Result (CFU/g)</u>	<u>Action Level (CFU/g)</u>
Aerobic Plate Count, Total	90	-
Escherichia Coli (E. Coli)	Absent	1
Mold	Absent	10000
Yeast	Absent	10000
Salmonella spp.	Absent	1



Abbreviations: EC - Escherichia Coli, CFU - Colony-Forming Unit, RL - Reporting Limit, AL - Action Level, NT - Not Tested

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

