

SUMMARY OF ANALYSIS (SAMPLE ID: SA25848)

Testing Location: OKC 3680 E. I-240 Service Rd. Oklahoma City, OK 73135	Customer ID: 4 Bison Extracts 1420 S Joplin Ave Tulsa, OK 74112 License: PAAA-4KW0-GFNQ	Order ID: OR8062 Lot Number: Not Entered Batch Number: 5801	Sample Type: Primary Matrix: Edible Mass: g Date Collected: 04/17/2020 Date Received: 04/17/2020
Cultivar (Strain) or Sample Description: Critical Mass Base Powder Tablets			Date Completed: 04/27/2020

*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.

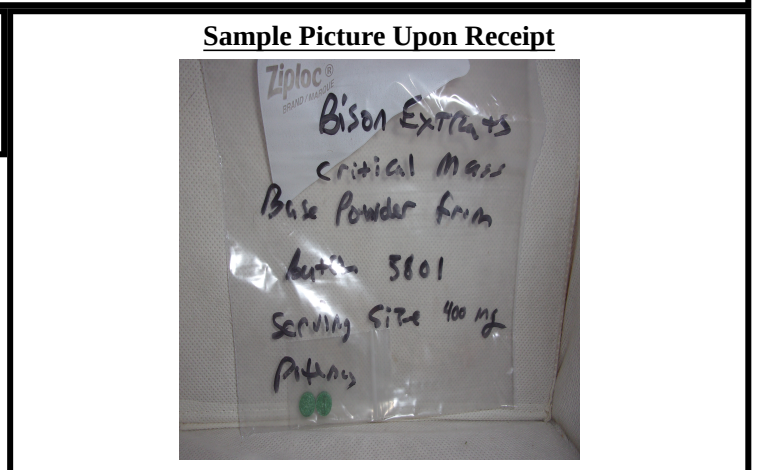
*For Oklahoma, with the new OMMA rules to be effective April 1, 2020, limits on moisture are proposed at 15% and water activity at 0.65aw.

Moisture Content (%) Not Tested	PASS/FAIL N/A	Water Activity (aw) Not Tested	PASS/FAIL N/A
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Cannabinoids (Top 3)	(%)	mg/g
Δ9-THC	4.32	43
THCa	0.723	7
CBC	0.152	1.52
TOTAL CBD	0.0389	0.389
TOTAL THC	4.96	50
TOTAL CANNABINOIDS	5.44	54

Terpenes (Top 5)	(%)	µg/g
α-Humulene	0.021	211
β-Caryophyllene	0.020	198
Linalool	0.017	168
α-Bisabolol	0.009	88
Guaiol	0.008	79
TOTAL TERPENES	0.0892	892

Contaminants	PASS/FAIL
Microbiology:	PASS
Visual Inspection:	PASS



Scan the QR code to verify results.

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REPORT OF LABORATORY ANALYSIS

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



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA25848)

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CANNABINOID (POTENCY) PROFILE

Analysis Date/Time: 04/20/2020 1126

Method: HPLC/DAD

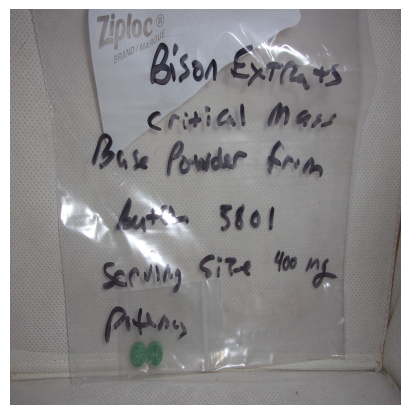
Moisture Content (%): -

Analyst: WW

Instrument: Agilent 1100

Water Activity (aw): -

Cannabinoid	Result (%)	Result (mg/g)	Reporting Limit (mg/g)	Result (mg/mL)	Per Unit (mg)
CBD	0.0183	0.183	0.0302	-	0.0733
CBDa	0.0235	0.235	0.0302	-	0.0939
CBDv	-	-	0.0302	-	-
Δ9-THC	4.32	43.2	0.0302	-	17
Δ8-THC	-	-	0.0302	-	-
THCa	0.723	7.23	0.0302	-	3
THCv	0.0346	0.346	0.0302	-	0.139
CBC	0.152	1.52	0.0302	-	0.609
CBG	0.0884	0.884	0.0302	-	0.354
CBGa	0.0552	0.552	0.0302	-	0.221
CBN	0.0196	0.196	0.0302	-	0.0785
TOTAL	5.44	54			22
TOTAL THC	4.96	49.6			20
TOTAL CBD	0.0389	0.389			0.156

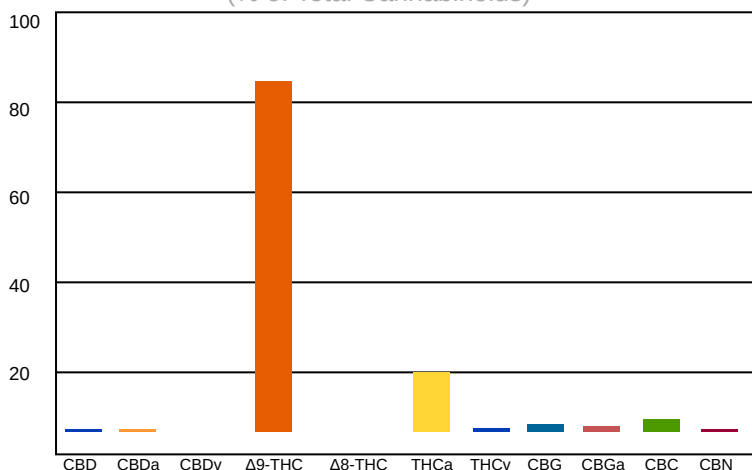


UNIT MASS (g): 0.4

"-" 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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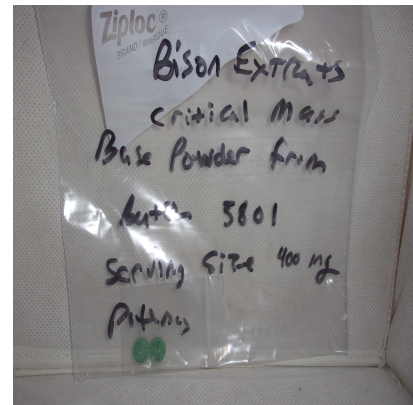
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TERPENOID PROFILE

Analysis Date/Time: 04/20/2020 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	88	0.00877	■
Camphene	-	-	
δ-3-Carene	-	-	
β-Caryophyllene	198	0.0198	■
Caryophyllene oxide	38	0.00382	■
p-Cymene	32	0.00325	■
Eucalyptol	-	-	
Geraniol	50	0.00503	■
Guaiol	79	0.00786	■
α-Humulene	211	0.0211	■
Isopulegol	27	0.00273	■
d-Limonene	-	-	
Linalool	168	0.0168	■
β-Myrcene	-	-	
cis-Nerolidol	-	-	
trans-Nerolidol	-	-	
α-Ocimene	-	-	
β-Ocimene	-	-	
α-Pinene	-	-	
β-Pinene	-	-	
α-Terpinene	-	-	
γ-Terpinene	-	-	
Terpinolene	-	-	
TOTAL	892	0.0892	



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

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"-" Not detected above RL.

Reporting Limit (µg/g): 1.21

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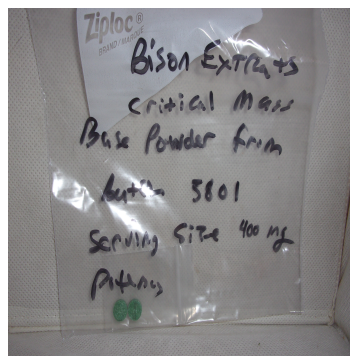
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MICROBIOLOGICAL PROFILE

Analysis Date/Time: 04/20/2020 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	Absent	-
Escherichia Coli (E. Coli)	Absent	1
Mold	Absent	104
Yeast	Absent	104
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

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