

SUMMARY OF ANALYSIS (SAMPLE ID: SA26676)

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: OR8322 Lot Number: Not Entered Batch Number: 6628	Sample Type: Primary Matrix: Edible Mass: 5g Date Collected: 05/05/2020 Date Received: 05/06/2020
Cultivar (Strain) or Sample Description: Reba Sativa (Infused with Bruce Banner Terps)			Date Completed: 05/13/2020

*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	3.75	38
THCv	0.214	2
THCa	0.157	1.57
TOTAL CBD	0.0375	0.375
TOTAL THC	3.89	39
TOTAL CANNABINOIDS	4.34	43

Terpenes (Top 5)	(%)	µg/g
β-Caryophyllene	0.074	740
α-Humulene	0.034	336
Linalool	0.017	166
trans-Nerolidol	0.014	142
α-Bisabolol	0.008	76
TOTAL TERPENES	0.151	1507

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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John K. Irvin
John K. Irvin, M.S.
Laboratory Director (Tulsa)



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA26676)

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CANNABINOID (POTENCY) PROFILE

Analysis Date/Time: 05/07/2020 0832

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	0.0171	0.171	0.0249	-	0.0739
CBDa	0.0233	0.233	0.0249	-	0.101
CBDv	-	-	0.0249	-	-
Δ9-THC	3.75	37.5	0.0249	-	16
Δ8-THC	-	-	0.0249	-	-
THCa	0.157	1.57	0.0249	-	0.678
THCv	0.214	2.14	0.0249	-	0.924
CBC	0.0418	0.418	0.0249	-	0.181
CBG	0.0872	0.872	0.0249	-	0.377
CBGa	0.0176	0.176	0.0249	-	0.0762
CBN	0.0337	0.337	0.0249	-	0.146
TOTAL	4.34	43			19
TOTAL THC	3.89	38.9			17
TOTAL CBD	0.0375	0.375			0.162

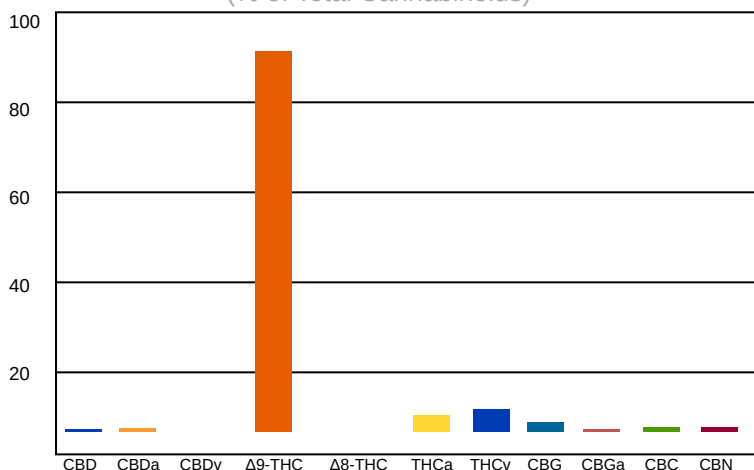


UNIT MASS (g): 0.4325

"-" 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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TERPENOID PROFILE

Analysis Date/Time: 05/07/2020 0832 **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	76	0.00757	■
Camphene	-	-	
δ-3-Carene	-	-	
β-Caryophyllene	740	0.074	■
Caryophyllene oxide	24	0.00238	■
p-Cymene	-	-	
Eucalyptol	-	-	
Geraniol	-	-	
Guaiol	-	-	
α-Humulene	336	0.0336	■
Isopulegol	-	-	
d-Limonene	-	-	
Linalool	166	0.0166	■
β-Myrcene	-	-	
cis-Nerolidol	23	0.00231	■
trans-Nerolidol	142	0.0142	■
α-Ocimene	-	-	
β-Ocimene	-	-	
α-Pinene	-	-	
β-Pinene	-	-	
α-Terpinene	-	-	
γ-Terpinene	-	-	
Terpinolene	-	-	
TOTAL	1507	0.151	



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

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"-" Not detected above RL.

Reporting Limit (µg/g): 0.998

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MICROBIOLOGICAL PROFILE

Analysis Date/Time: 05/07/2020 0832 **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>
Escherichia Coli (E. Coli)	Absent	1
Mold/Yeast	Absent	104
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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