







SUMMARY OF ANALYSIS (SAMPLE ID: SA34175)

Testing Location:Customer ID: 2161Order ID: OR10269Sample Type: PrimaryArkansasRiver Valley Relief CultivationLot Number:Matrix: Flower232 S. Broadview St.5601 Old Greenwood Rd Suite CM00065C13135883712Mass: 23g

Greenbrier, AR 72058 Fort Smith, AR 72903 **Production Run: Date Collected:** 01/18/2023 License: ADH 113 License: 00065C 4018H20220902BBF-2 **Date Received:** 01/18/2023

Cultivar (Strain) or Sample Description: Bens Buffalo

Date Completed: 01/23/2023

*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. All contaminant action levels are referenced from the State of Arkansas MMJ testing guidelines.

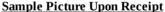
Moisture Content (%)Water Activity (aw)PASS/FAIL10.80.463 @ 23.8°CPASS

Moisture content/water activity action levels are referenced from the State of Arkansas MMJ testing guidelines.

Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

Cannabinoids (Top 3)	(%)	mg/g
THCA	16.2	162
Δ9-ΤΗС	1.27	12.7
CBGA	1.04	10.4
TOTAL CBD	-	-
TOTAL THC	15.5	155
TOTAL CANNABINOIDS	19.2	192
<u>Terpenes (Top 5)</u>	<u>(%)</u>	µg/g
<u>Terpenes (Top 5)</u> Caryophyllene oxide	(<u>%)</u> 0.308	<u>µg</u> / g 3080
Caryophyllene oxide	0.308	3080
Caryophyllene oxide Terpinolene	0.308 0.167	3080 1670
Caryophyllene oxide Terpinolene Linalool	0.308 0.167 0.0706	3080 1670 706
Caryophyllene oxide Terpinolene Linalool β-Myrcene	0.308 0.167 0.0706 0.0520	3080 1670 706 520

Contaminants	PASS/FAIL
Heavy Metals:	PASS
Microbiology:	PASS
Pesticides:	PASS







Scan the QR code to verify results.

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Testing Location: Arkansas

232 S. Broadview St. Greenbrier, AR 72058 License: ADH 113

Customer ID: 2161 River Valley Relief Cultivation 5601 Old Greenwood Rd Suite C Fort Smith, AR 72903

License: 00065C Cultivar (Strain) or Sample Description: Bens Buffalo Order ID: OR10269 Lot Number:

M00065C13135883712

Production Run: 4018H20220902BBF-2 Sample Type: Primary

Matrix: Flower **Mass:** 23g

Date Collected: 01/18/2023 **Date Received:** 01/18/2023

Date Completed: 01/23/2023

CANNABINOID (POTENCY) PROFILE (SOP: SOP-CANN-001)

Method: HPLC/DAD **Analysis Date/Time:** 1/20/2023 1649 Moisture Content (%): 10.8

Analyst: PW

Instrument: Agilent 1100

Water Activity (aw): 0.463 @ 23.81°C



SERVING MASS (g): 1.00 **SERVINGS/UNIT: 1**

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 CBC = $(CBCA \times 0.877) + CBC$ Total CBD = $(CBDA \times 0.877) + CBD$ Total CBDV = (CBDVA \times 0.867) + CBDV Total CBG = $(CBGA \times 0.878) + CBG$ Total CBN = $(CBNA \times 0.876) + CBN$ Total THC = (THCA x 0.877) + Δ 9-THC Total THCV = (THCVA x 0.867) + THCV

Percentage results are reported by mass.

mg/g results are reported as mass component per mass material.

<u>Cannabinoid</u>	Result (%)	<u>UM</u> (+/-%)	Result (mg/g)	LOQ (mg/g)	Result (mg/ mL)	Per Serving (mg)	Per Unit (mg)
CBC	-	-	-	1.03	-	-	-
CBCA	-	-	-	3.20	-	-	-
CBD	-	-	-	7.26	-	-	-
CBDA	-	-	-	2.67	-	-	-
CBDV	-	-	-	1.16	-	-	-
CBDVA	-	-	-	3.11	-	-	-
CBG	-	-	-	4.72	-	-	-
CBGA	1.04	0.0935	10.4	3.38	-	10.4	10.4
CBL	-	-	-	5.45	-	-	-
CBN	-	-	-	2.50	-	-	-
CBNA	-	-	-	2.70	-	-	-
Δ9-ΤΗС	1.27	0.115	12.7	3.00	-	12.7	12.7
Δ8-ΤΗС	-	-	-	4.68	-	-	-
THCA	16.2	1.46	162	1.63	-	162	162
THCV	-	-	-	3.90	-	-	-
THCVA	0.731	0.0219	7.31	1.24	-	7.31	7.31
TOTAL	19.2	1.69	192		-	192	192
TOTAL CBC	-	-	-		-	-	-
TOTAL CBD	-	-	-		-	-	-
TOTAL CBDV	-	-	-		-	-	-
TOTAL CBG	0.912	0.0821	9.12		-	9.12	9.12
TOTAL CBN	-	-	-		-	-	-
TOTAL THC	15.5	1.39	155		-	155	155
TOTAL THCV	0.634	0.0190	6.34		-	6.34	6.34
* CBCA, CBDVA, CBL, CBNA, and THCVA are in process of being added to our accreditation scope.							

CBCA, CBDVA, CBL, CBNA, and THCVA are in process of being added to our accreditation scope.

Abbreviations: DAD - Diode Array Detector, HPLC - High Pressure Liquid Chromatography, RL - Reporting Limit, RPD - Relative Percent Difference, RSD - Relative Standard Deviation, DET - Detected (less than LOQ), LOD - Limit of Detection, LOQ - Limit of Quantitation, UM - Measurement Uncertainty

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[&]quot;-" Not detected above LOD.









Testing Location: Arkansas

232 S. Broadview St. Greenbrier, AR 72058 License: ADH 113

Customer ID: 2161 River Valley Relief Cultivation

5601 Old Greenwood Rd Suite C Fort Smith, AR 72903

> Result <u>(%)</u>

0.0232

0.0349

0.308

0.0326

0.0706

0.0520

0.0315

0.00899

0.167

0.729

License: 00065C

Order ID: OR10269 Lot Number:

M00065C13135883712

Production Run: 4018H20220902BBF-2 Sample Type: Primary

Matrix: Flower **Mass:** 23g

Date Collected: 01/18/2023 **Date Received:** 01/18/2023

Date Completed: 01/23/2023

TERPENOID PROFILE

Analysis Date/Time:01/20/2023 2048

Result

 $(\mu g/g)$ 232

349

3080

326

706

520

315

89.9

1670

7290

Cultivar (Strain) or Sample Description: Bens Buffalo

Analyst: KF

Terpene

α-Bisabolol Camphene δ-3-Carene β-Caryophyllene

Caryophyllene

α-Humulene

Isopulegol

Linalool

β-Myrcene

cis-Nerolidol

α-Ocimene

β-Ocimene

α-Pinene

B-Pinene

TOTAL

α-Terpinene y-Terpinene Terpinolene

trans-Nerolidol

d-Limonene

oxide p-Cymene Eucalyptol Geraniol Guaiol

Method: GC/MS

Instrument: Agilent 7890/5975

Deviations from SOP:

None



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

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"-" Not detected above RL

Reporting Limit (µg/g): 43.2





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01/23/2023









Testing Location:

Arkansas 232 S. Broadview St.

Greenbrier, AR 72058 License: ADH 113

Analyst: KF

Customer ID: 2161

River Valley Relief Cultivation 5601 Old Greenwood Rd Suite C

Fort Smith, AR 72903

License: 00065C

Order ID: OR10269

Lot Number:

M00065C13135883712

Production Run: 4018H20220902BBF-2

Mass: 23g
Date Collec

Date Collected: 01/18/2023 **Date Received:** 01/18/2023

Sample Type: Primary

Matrix: Flower

Date Completed: 01/23/2023

PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 01/20/2023 1844

Time: 01/20/2023 1644

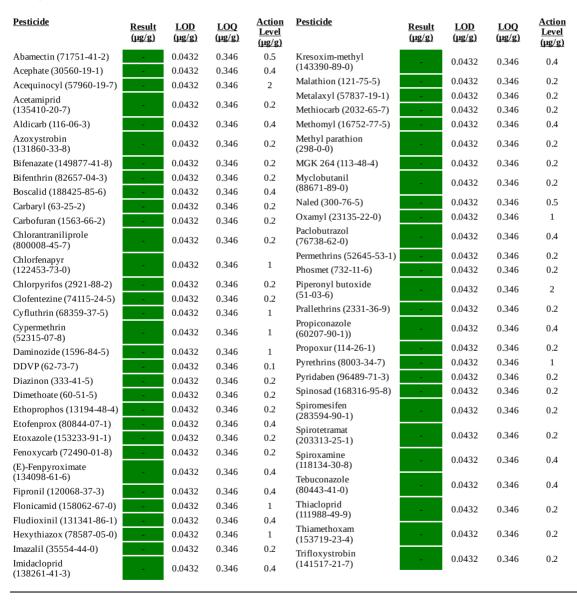
Cultivar (Strain) or Sample Description: Bens Buffalo

Method: LC/MS/MS

Instrument: Shimadzu LC-8050

Deviations from SOP:

None





Color Kev

RESULT < AL

"DET" detected less than LOQ

"-" not detected above LOD

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

Pyrethrins measured as the cumulative residue of the pyrethrin I, cinerin I, and jasmolin I isomers.

 $\begin{array}{c} \text{Action levels are referenced from} \\ \text{the} \end{array}$

State of Arkansas MMJ testing guidelines.

A value of "-" for the action level means that analyte is not currently regulated by the regulations referenced above.

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Abbreviations: LC - Liquid Chromatography, MS - Mass Spectrometry, RL - Reporting Limit, AL - Action Level, CAS - Chemical Abstract Services, LOD - Limit of Detection, LOQ - Limit of Quantification

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













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 License: ADH 113
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 4018H20220902BBF-2
 Date Received: 01/18/2023

Cultivar (Strain) or Sample Description: Bens Buffalo

Date Completed: 01/23/2023

HEAVY METAL PROFILE (SOP: SOP-ICP-200.7)

Analysis Date/Time: 01/20/2023 1436 (ICP/OES) Method: ICP/OES Deviations from SOP:

Analysis Date/Time: - (DMA) Instrument: Agilent 720-ES None

Analyst: KF

<u>Heavy Metal</u>	<u>Result</u> (μg/kg)	<u>LOD</u> (µg/kg)	LOQ (µg/kg)	<u>Action Level</u> (μg/kg)
Arsenic (As)	-	57.2	90.6	200
Cadmium (Cd)	-	57.2	90.6	200
Lead (Pb)	-	57.2	90.6	500
Mercury (Hg)	-	57.2	90.6	100



Abbreviations: ICP - Inductively-Coupled Plasma, OES - Optical Emission Spectroscopy, DMA - Direct Mercury Analyzer, RL - Reporting Limit, AL - Action Level, LOD - Limit of Detection, LOQ - Limit of Quantitation

Color Key

RESULT < AL
RESULT > AL

"DET" detected less than LOQ

"-" not detected above LOD

Action levels for heavy metals are referenced from the State of Arkansas MMJ testing guidelines.

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Cultivar (Strain) or Sample Description: Bens Buffalo







Date Completed: 01/23/2023

CERTIFICATE OF ANALYSIS (SAMPLE ID: SA34175)

Testing Location:Customer ID: 2161Sample ID: SA34175Sample Type: PrimaryArkansasRiver Valley Relief CultivationLot Number:Matrix: Flower232 S. Broadview St.5601 Old Greenwood Rd Suite CM00065C13135883712Mass: 23g

 Greenbrier, AR 72058
 Fort Smith, AR 72903
 Production Run:
 Date Collected: 01/18/2023

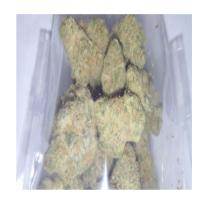
 License: ADA 05_H273
 License: 00065C
 4018H20220902BBF-2
 Date Received: 01/18/2023

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 20230120 1138 Method: Hardy Diagnostics CompactDry Deviations from SOP:

Analyst: PW Instrument: Thermo Incubator None

Bacteria/Microbe	<u>Result</u> (CFU/g)	Action Level (CFU/g)
Aerobic Plate Count	NT	-
Coliforms, Total	Absent	1
Escherichia Coli (E. Coli)	Absent	100
Mold/Yeast	NT	-
Pseudomonas aeruginosa	NT	1
Salmonella spp.	NT	-
Staphylococcus aureus	NT	-



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 < AL RESULT > AL

Reporting Limit (CFU/g)

Action levels for microbiology are referenced from the State of Arkansas MMJ testing guidelines. A value of "-" for the action level means that analyte is not currently regulated by the regulations referenced above.

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