







SUMMARY OF ANALYSIS (SAMPLE ID: SA35463)

Order ID: OR10498 **Testing Location:** Customer ID: 2161 Sample Type: Primary Arkansas River Valley Relief Cultivation Lot Number: Matrix: Flower 232 S. Broadview St. 5601 Old Greenwood Rd Suite C M00065C13138862374 Mass: 9g

Greenbrier, AR 72058 Fort Smith, AR 72903 **Production Run: Date Collected:** 06/19/2023 6034H20230504BBF-2 License: ADH 113 License: 00065C **Date Received:** 06/20/2023 Cultivar (Strain) or Sample Description: Ben's Buffalo **Date Completed:** 06/21/2023

*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

> PASS/FAIL **Moisture Content (%)** Water Activity (aw) 0.459 @ 24.3°C **PASS** 13.1

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.

<u>Cannabinoids</u>	(Top 3)	<u>(%)</u>	mg/g
THCA		16.9	169
CBGA		0.902	9.02
Δ9-ΤΗΟ		0.825	8.25
TOTAL C	BD	-	-
TOTAL T	HC	15.7	157
TOTAL CANNA	BINOIDS	19.3	193
<u>Terpenes (</u> T	<u>'op 5)</u>	<u>(%)</u>	µg/g
Terpinole	ne	0.217	2170
β-Myrce	ne	0.111	1110
β-Ocime	ne	0.0844	844
d-Limone	ne	0.0836	836
β-Pinen	e	0.0486	486
TOTAL TERM	PENES	0.727	7270
<u>Contaminants</u>	Contaminants PASS/FAIL		re Upon Receipt

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







License: ADH 113





6034H20230504BBF-2



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35463)

Order ID: OR10498 **Testing Location:** Customer ID: 2161 Sample Type: Primary Arkansas River Valley Relief Cultivation Lot Number: Matrix: Flower 232 S. Broadview St. 5601 Old Greenwood Rd Suite C M00065C13138862374 Mass: 9g

Greenbrier, AR 72058 Fort Smith, AR 72903 **Production Run: Date Collected:** 06/19/2023

Cultivar (Strain) or Sample Description: Ben's Buffalo **Date Completed:** 06/21/2023

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

Analysis Date/Time: 06/20/2023 1636 Method: HPLC/DAD Moisture Content (%): 13.1

Analyst: PW Instrument: Agilent 1100 **Water Activity (aw):** 0.459 @ 24.3°C

<u>Cannabinoid</u>	Result (%)	Result (mg/g)	LOD (mg/g)	LOQ (mg/g)	Result (mg/ mL)	<u>Per</u> Serving (mg)	Per Unit (mg)
CBC	ND	ND	0.0429	0.100	-	-	-
CBCA	ND	ND	0.133	0.311	-	-	-
CBD	ND	ND	0.302	0.706	-	-	-
CBDA	ND	ND	0.111	0.260	-	-	-
CBDV	ND	ND	0.0485	0.113	-	-	-
CBDVA	ND	ND	0.129	0.302	-	-	-
CBG	ND	ND	0.196	0.458	-	-	-
CBGA	0.902	9.02	0.278	0.328	-	9.02	9.02
CBL	ND	ND	0.227	0.529	-	-	-
CBN	ND	ND	0.104	0.243	-	-	-
CBNA	ND	ND	0.112	0.262	-	-	-
Δ9-ΤΗС	0.825	8.25	0.125	0.291	-	8.25	8.25
Δ8-ΤΗС	ND	ND	0.195	0.455	-	-	-
THCA	16.9	169	0.0677	0.158	-	169	169
THCV	ND	ND	0.162	0.379	-	-	-
THCVA	0.609	6.09	0.0519	0.121	-	6.09	6.09
TOTAL	19.3	193		,		193	193
TOTAL CBC	-	-				-	-
TOTAL CBD	-	-			-	-	-
TOTAL CBDV	-	-			-	-	-
TOTAL CBG	0.792	7.92			-	7.92	7.92
TOTAL CBN	-	-			-	-	-
TOTAL THC	15.7	157			-	157	157
TOTAL THCV	0.528	5.28			-	5.28	5.28

License: 00065C

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

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.



Date Received: 06/20/2023

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.





Page 2 of 6

06/21/2023

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



License: ADH 113

Terpene

α-Bisabolol

Camphene

δ-3-Carene

Geraniol

α-Humulene

Isopulegol

Linalool

β-Myrcene

cis-Nerolidol

α-Ocimene

β-Ocimene

α-Pinene

B-Pinene

α-Terpinene

y-Terpinene

trans-Nerolidol

d-Limonene

Guaiol

β-Caryophyllene

Caryophyllene oxide p-Cymene Eucalyptol







CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35463)

Testing Location: Customer ID: 2161 Arkansas River Valley Relief Cultivation 232 S. Broadview St. 5601 Old Greenwood Rd Suite C Greenbrier, AR 72058

Cultivar (Strain) or Sample Description: Ben's Buffalo

Result

 $(\mu g/g)$

13.0

41.5

101

413

21.6

6.35

166

836

415

1110

25.7

41.9

844

337

486

140

99.1

Fort Smith, AR 72903

License: 00065C

Order ID: OR10498 Lot Number:

M00065C13138862374

Production Run: 6034H20230504BBF-2 Sample Type: Primary

Matrix: Flower

Mass: 9g

Date Collected: 06/19/2023 **Date Received:** 06/20/2023

Date Completed: 06/21/2023

TERPENOID PROFILE

Analysis Date/Time:06/21/2023 0622 Method: GC/MS **Deviations from SOP:** None

Result

<u>(%)</u>

0.00130

0.00415

0.0101

0.0413

0.00216

0.000635

0.0166

0.0836

0.0415

0.111

0.00257

0.00419

0.0844

0.0337

0.0486

0.0140

0.00991

Analyst: KF Instrument: Agilent 7890/5975

Abbreviations: 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.

Terpinolene 2170 0.217 "-" Not detected above RL

TOTAL 7270 0.727 Reporting Limit (µg/g): 172













CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35463)

Testing Location:Customer ID: 2161Order ID: OR10498Sample Type: PrimaryArkansasRiver Valley Relief CultivationLot Number:Matrix: Flower

232 S. Broadview St. 5601 Old Greenwood Rd Suite C M00065C13138862374 Mass: 9g
Greenbrier, AR 72058 Fort Smith, AR 72903 Production Run: Date Collected: 06/19/2023

License: ADH 113 License: 00065C 6034H20230504BBF-2 **Date Received:** 06/20/2023 **Cultivar (Strain) or Sample Description:** Ben's Buffalo **Date Completed:** 06/21/2023

PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 06/20/2023 1736 Method: LC/MS/MS Deviations from SOP:

Analyst: KF Instrument: Shimadzu LC-8050 None

<u>Pesticide</u>	Result (μg/g)	<u>LOD</u> (µg/g)	<u>LOQ</u> (µg/g)	<u>Action</u> <u>Level</u> (μg/g)	<u>Pesticide</u>	Result (μg/g)	<u>LOD</u> (µg/g)	<u>LOQ</u> (µg/g)	<u>Action</u> <u>Level</u> (μg/g)
Abamectin (71751-41-2)	-	0.0469	0.375	0.5	Kresoxim-methyl	_	0.0469	0.375	0.4
Acephate (30560-19-1)	-	0.0469	0.375	0.4	(143390-89-0)				
Acequinocyl (57960-19-7)	-	0.0469	0.375	2	Malathion (121-75-5)	-	0.0469	0.375	0.2
Acetamiprid	_	0.0469	0.375	0.2	Metalaxyl (57837-19-1)	-	0.0469	0.375	0.2
(135410-20-7)		0.0460	0.055	0.4	Methiocarb (2032-65-7)	-	0.0469	0.375	0.2
Aldicarb (116-06-3)	-	0.0469	0.375	0.4	Methomyl (16752-77-5)	-	0.0469	0.375	0.4
Azoxystrobin (131860-33-8)	-	0.0469	0.375	0.2	Methyl parathion (298-0-0)	-	0.0469	0.375	0.2
Bifenazate (149877-41-8)	-	0.0469	0.375	0.2	MGK 264 (113-48-4)	-	0.0469	0.375	0.2
Bifenthrin (82657-04-3)	-	0.0469	0.375	0.2	Myclobutanil	2	0.0469	0.375	0.2
Boscalid (188425-85-6)	-	0.0469	0.375	0.4	(88671-89-0)				
Carbaryl (63-25-2)	-	0.0469	0.375	0.2	Naled (300-76-5)	-	0.0469	0.375	0.5
Carbofuran (1563-66-2)	-	0.0469	0.375	0.2	Oxamyl (23135-22-0)	-	0.0469	0.375	1
Chlorantraniliprole (800008-45-7)	-	0.0469	0.375	0.2	Paclobutrazol (76738-62-0)	-	0.0469	0.375	0.4
Chlorfenapyr					Permethrins (52645-53-1)	-	0.0469	0.375	0.2
(122453-73-0)	-	0.0469	0.375	1	Phosmet (732-11-6)	-	0.0469	0.375	0.2
Chlorpyrifos (2921-88-2)	-	0.0469	0.375	0.2	Piperonyl butoxide	_	0.0469	0.375	2
Clofentezine (74115-24-5)	-	0.0469	0.375	0.2	(51-03-6)				
Cyfluthrin (68359-37-5)	-	0.0469	0.375	1	Prallethrins (2331-36-9)	-	0.0469	0.375	0.2
Cypermethrin (52315-07-8)	-	0.0469	0.375	1	Propiconazole (60207-90-1))	-	0.0469	0.375	0.4
Daminozide (1596-84-5)	-	0.0469	0.375	1	Propoxur (114-26-1)	-	0.0469	0.375	0.2
DDVP (62-73-7)	-	0.0469	0.375	0.1	Pyrethrins (8003-34-7)	-	0.0469	0.375	1
Diazinon (333-41-5)	_	0.0469	0.375	0.2	Pyridaben (96489-71-3)	-	0.0469	0.375	0.2
Dimethoate (60-51-5)	_	0.0469	0.375	0.2	Spinosad (168316-95-8)	-	0.0469	0.375	0.2
Ethoprophos (13194-48-4)	-	0.0469	0.375	0.2	Spiromesifen (283594-90-1)	_	0.0469	0.375	0.2
Etofenprox (80844-07-1)	-	0.0469	0.375	0.4	Spirotetramat				
Etoxazole (153233-91-1)	-	0.0469	0.375	0.2	(203313-25-1)	-	0.0469	0.375	0.2
Fenoxycarb (72490-01-8)	-	0.0469	0.375	0.2	Spiroxamine		0.0469	0.375	0.4
(E)-Fenpyroximate (134098-61-6)	-	0.0469	0.375	0.4	(118134-30-8) Tebuconazole		0.0469	0.375	0.4
Fipronil (120068-37-3)	-	0.0469	0.375	0.4	(80443-41-0)	_	0.0469	0.373	0.4
Flonicamid (158062-67-0)	-	0.0469	0.375	1	Thiacloprid		0.0469	0.375	0.2
Fludioxinil (131341-86-1)	-	0.0469	0.375	0.4	(111988-49-9)				
Hexythiazox (78587-05-0)	-	0.0469	0.375	1	Thiamethoxam (153719-23-4)	-	0.0469	0.375	0.2
Imazalil (35554-44-0)	-	0.0469	0.375	0.2	Trifloxystrobin		0.0466	0.055	0.0
Imidacloprid (138261-41-3)	-	0.0469	0.375	0.4	(141517-21-7)		0.0469	0.375	0.2



Color Key

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.

Action levels 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.

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.

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		





Mass: 9g







M00065C13138862374



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35463)

Testing Location:Customer ID: 2161Order ID: OR10498Sample Type: PrimaryArkansasRiver Valley Relief CultivationLot Number:Matrix: Flower

 Greenbrier, AR 72058
 Fort Smith, AR 72903
 Production Run: Date Collected: 06/19/2023

 License: ADH 113
 License: 00065C
 6034H20230504BBF-2
 Date Received: 06/20/2023

Cultivar (Strain) or Sample Description: Ben's Buffalo

Date Completed: 06/21/2023

HEAVY METAL PROFILE (SOP: SOP-ICP-200.6)

Analysis Date/Time: 06/20/2023 1819 (ICP/OES) Method: ICP/MS Deviations from SOP:

Analysis Date/Time: - (DMA) Instrument: Agilent 7500ce None

5601 Old Greenwood Rd Suite C

Analyst: KF

232 S. Broadview St.

<u>Heavy Metal</u>	<u>Result</u> (μg/kg)	<u>LOD</u> (µg/kg)	<u>LOQ</u> (µg/kg)	<u>Action Level</u> (μg/kg)
Arsenic (As)	-	57.3	90.8	200
Cadmium (Cd)	-	57.3	90.8	200
Lead (Pb)	-	57.3	90.8	500
Mercury (Hg)	_	57.3	90.8	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.

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.













CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35463)

Testing Location:Customer ID: 2161Sample ID: SA35463Sample Type: PrimaryArkansasRiver Valley Relief CultivationLot Number:Matrix: Flower

232 S. Broadview St. 5601 Old Greenwood Rd Suite C M00065C13138862374 Mass: 9g
Greenbrier, AR 72058 Fort Smith, AR 72903 Production Run: Date Collected: 06/19/2023

License: ADA 05_H273 License: 00065C 6034H20230504BBF-2 **Date Received:** 06/20/2023

Cultivar (Strain) or Sample Description: Ben's Buffalo Date Completed: 06/21/2023

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 06/21/2023 0953 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	-
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

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.

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.



