







SUMMARY OF ANALYSIS (SAMPLE ID: SA37694)

Testing Location:Customer ID: 2161Order ID: OR10973Sample Type: PrimaryArkansasRiver Valley Relief CultivationLot Number:Matrix: Flower232 S. Broadview St.5601 Old Greenwood Rd Suite CM00065C13130809585Mass: 23g

 Greenbrier, AR 72058
 Fort Smith, AR 72903
 Production Run:
 Date Collected: 04/22/2024

 License: ADH 113
 License: 00065C
 4060H20240329BBF-1
 Date Received: 04/22/2024

Cultivar (Strain) or Sample Description: Bens Buffalo

Date Completed: 04/24/2024

*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.

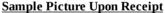
Moisture Content (%)Water Activity (aw)PASS/FAIL12.70.460 @ 24.3°CPASS

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.

<u>Cannabino</u>	oids (Top 3)	<u>(%)</u>	mg/g
TH	CA	17.3	173
CB	GA	0.756	7.56
THO	CVA	0.701	7.01
TOTA	L CBD	-	-
TOTA	LTHC	15.8	158
TOTAL CAN	NABINOIDS	19.4	194
<u>Terpene</u>	s (Top 5)	(%)	µg/g
Terpin	nolene	0.369	3690
β-Му	rcene	0.256	2560
β-Caryo	phyllene	0.194	1940
d-Lim	onene	0.106	1060
Lina	alool	0.104	1040
TOTAL T	ERPENES	1.49	14900
Contaminants	PASS/FAIL	Cl- Di	e Unon Receint

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







Scan the QR code to verify results.

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CERTIFICATE OF ANALYSIS (SAMPLE ID: SA37694)

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Greenbrier, AR 72058 Fort Smith, AR 72903 **Production Run: Date Collected:** 04/22/2024 License: ADH 113 License: 00065C 4060H20240329BBF-1 **Date Received:** 04/22/2024

Cultivar (Strain) or Sample Description: Bens Buffalo

Date Completed: 04/24/2024

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

Analysis Date/Time: 04/23/2024 1548 Method: HPLC/DAD Moisture Content (%): 12.7

Analyst: PW Instrument: Agilent 1100 Water Activity (aw): 0.460 @ 24.3°C

<u>Cannabinoid</u>	Result (%)	Result (mg/g)	LOD (mg/g)	LOQ (mg/g)	Result (mg/ mL)	Per Serving (mg)	Per Unit (mg)
CBC	ND	ND	0.0445	0.104	-	-	-
CBCA	ND	ND	0.138	0.323	-	-	-
CBD	ND	ND	0.314	0.733	-	-	-
CBDA	ND	ND	0.116	0.270	-	-	-
CBDV	ND	ND	0.0504	0.118	-	-	-
CBDVA	ND	ND	0.134	0.314	-	-	-
CBG	ND	ND	0.204	0.476	-	-	-
CBGA	0.756	7.56	0.289	0.341	-	6.60	6.60
CBL	ND	ND	0.236	0.550	-	-	-
CBN	ND	ND	0.108	0.253	-	-	-
CBNA	ND	ND	0.117	0.272	-	-	-
Δ9-ΤΗС	0.648	6.48	0.130	0.302	-	5.66	5.66
Δ8-ΤΗС	ND	ND	0.202	0.472	-	-	-
THCA	17.3	173	0.0703	0.164	-	151	151
THCV	ND	ND	0.169	0.393	-	-	-
THCVA	0.701	7.01	0.0539	0.125	-	6.12	6.12
TOTAL	19.4	194				170	170
TOTAL CBC	-	-			-	-	-
TOTAL CBD	-	-			-	-	-
TOTAL CBDV	-	-			-	-	-
TOTAL CBG	0.664	6.64			-	5.80	5.80
TOTAL CBN	-	-			-	-	-
TOTAL THC	15.8	158			-	138	138
TOTAL THCV	0.608	6.08			-	5.31	5.31

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

"-" Not detected above LOD.

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 x 0.877) + CBC Total CBD = (CBDA x 0.877) + CBD Total CBDV = (CBDVA x 0.867) + CBDV Total CBG = (CBGA x 0.878) + CBG Total CBN = (CBNA x 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.







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CERTIFICATE OF ANALYSIS (SAMPLE ID: SA37694)

Customer ID: 2161 **Testing Location:** Arkansas River Valley Relief Cultivation 232 S. Broadview St. 5601 Old Greenwood Rd Suite C Greenbrier, AR 72058 Fort Smith, AR 72903

Cultivar (Strain) or Sample Description: Bens Buffalo

License: 00065C

Order ID: OR10973 Lot Number:

M00065C13130809585

Production Run: 4060H20240329BBF-1 Sample Type: Primary

Matrix: Flower **Mass:** 23g

Date Collected: 04/22/2024 **Date Received:** 04/22/2024

Date Completed: 04/24/2024

TERPENOID PROFILE

Analysis Date/Time:04/23/2024 2046 Method: GC/MS **Deviations from SOP: Analyst:** KF Instrument: Agilent 7890/5975 None

<u>Terpene</u>	<u>Result</u> (μg/g)	Result (%)
α-Bisabolol	₩ 8/8) 596	0.0596
Camphene	<loq< td=""><td>-</td></loq<>	-
δ-3-Carene	168	0.0168
β-Caryophyllene	1940	0.194
Caryophyllene oxide	240	0.0240
p-Cymene	ND	-
Eucalyptol	<loq< td=""><td>-</td></loq<>	-
Geraniol	55.5	0.00555
Guaiol	ND	-
α-Humulene	861	0.0861
Isopulegol	ND	-
d-Limonene	1060	0.106
Linalool	1040	0.104
β-Myrcene	2560	0.256
cis-Nerolidol	ND	-
trans-Nerolidol	483	0.0483
α-Ocimene	<loq< td=""><td>-</td></loq<>	-
β-Ocimene	654	0.0654
α-Pinene	500	0.0500
β-Pinene	850	0.0850
α-Terpinene	137	0.0137
γ-Terpinene	81.7	0.00817
Terpinolene	3690	0.369
TOTAL	14900	1.49

Reporting Limit (µg/g): 48.8

"-" Not detected above LOD.







License: ADH 113





4060H20240329BBF-1



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Testing Location:Customer ID: 2161Order ID: OR10973Sample Type: PrimaryArkansasRiver Valley Relief CultivationLot Number:Matrix: Flower

232 S. Broadview St. 5601 Old Greenwood Rd Suite C M00065C13130809585 **Mass:** 23g
Greenbrier, AR 72058 Fort Smith, AR 72903 **Production Run: Date Collected:** 04/22/2024

Cultivar (Strain) or Sample Description: Bens Buffalo

Date Completed: 04/24/2024

PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 04/23/2024 1620 Method: LC/MS/MS Deviations from SOP:

Analyst: KF Instrument: Shimadzu LC-8050 None

License: 00065C

<u>Pesticide</u>	Result (μg/g)	<u>LOD</u> (µg/g)	LOQ (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)	-	0.0486	0.389	0.5	Kresoxim-methyl	_	0.0486	0.389	0.4
Acephate (30560-19-1)	-	0.0486	0.389	0.4	(143390-89-0)				
Acequinocyl (57960-19-7)	-	0.0486	0.389	2	Malathion (121-75-5)	-	0.0486	0.389	0.2
Acetamiprid (135410-20-7)	-	0.0486	0.389	0.2	Metalaxyl (57837-19-1) Methiocarb (2032-65-7)	-	0.0486 0.0486	0.389 0.389	0.2 0.2
Aldicarb (116-06-3)	-	0.0486	0.389	0.4	Methomyl (16752-77-5)	-	0.0486	0.389	0.4
Azoxystrobin (131860-33-8)	-	0.0486	0.389	0.2	Methyl parathion (298-0-0)	-	0.0486	0.389	0.2
Bifenazate (149877-41-8)	-	0.0486	0.389	0.2	MGK 264 (113-48-4)	-	0.0486	0.389	0.2
Bifenthrin (82657-04-3)	-	0.0486	0.389	0.2	Myclobutanil		0.0486	0.389	0.2
Boscalid (188425-85-6)	-	0.0486	0.389	0.4	(88671-89-0)	_	0.0460	0.303	0.2
Carbaryl (63-25-2)	-	0.0486	0.389	0.2	Naled (300-76-5)	-	0.0486	0.389	0.5
Carbofuran (1563-66-2)	-	0.0486	0.389	0.2	Oxamyl (23135-22-0)	-	0.0486	0.389	1
Chlorantraniliprole (800008-45-7)	-	0.0486	0.389	0.2	Paclobutrazol (76738-62-0)	-	0.0486	0.389	0.4
Chlorfenapyr		0.0400	0.000		Permethrins (52645-53-1)	-	0.0486	0.389	0.2
(122453-73-0)	-	0.0486	0.389	1	Phosmet (732-11-6)	-	0.0486	0.389	0.2
Chlorpyrifos (2921-88-2)	-	0.0486	0.389	0.2	Piperonyl butoxide	_	0.0486	0.389	2
Clofentezine (74115-24-5)	-	0.0486	0.389	0.2	(51-03-6)		0.0406	0.200	0.2
Cyfluthrin (68359-37-5)	-	0.0486	0.389	1	Prallethrins (2331-36-9)	-	0.0486	0.389	0.2
Cypermethrin (52315-07-8)	-	0.0486	0.389	1	Propiconazole (60207-90-1))	-	0.0486	0.389	0.4
Daminozide (1596-84-5)	-	0.0486	0.389	1	Propoxur (114-26-1)	-	0.0486	0.389	0.2
DDVP (62-73-7)	-	0.0486	0.389	0.1	Pyrethrins (8003-34-7)	-	0.0486	0.389	1
Diazinon (333-41-5)	-	0.0486	0.389	0.2	Pyridaben (96489-71-3)	-	0.0486	0.389	0.2
Dimethoate (60-51-5)	-	0.0486	0.389	0.2	Spinosad (168316-95-8)	-	0.0486	0.389	0.2
Ethoprophos (13194-48-4)	-	0.0486	0.389	0.2	Spiromesifen (283594-90-1)	-	0.0486	0.389	0.2
Etofenprox (80844-07-1)	-	0.0486	0.389	0.4	Spirotetramat				
Etoxazole (153233-91-1)	-	0.0486	0.389	0.2	(203313-25-1)	-	0.0486	0.389	0.2
Fenoxycarb (72490-01-8)	-	0.0486	0.389	0.2	Spiroxamine	_	0.0486	0.389	0.4
(E)-Fenpyroximate (134098-61-6)	-	0.0486	0.389	0.4	(118134-30-8) Tebuconazole		0.0486	0.389	0.4
Fipronil (120068-37-3)	-	0.0486	0.389	0.4	(80443-41-0)	_	0.0466	0.369	0.4
Flonicamid (158062-67-0)	-	0.0486	0.389	1	Thiacloprid	_	0.0486	0.389	0.2
Fludioxinil (131341-86-1)	-	0.0486	0.389	0.4	(111988-49-9)				
Hexythiazox (78587-05-0)	-	0.0486	0.389	1	Thiamethoxam (153719-23-4)	-	0.0486	0.389	0.2
Imazalil (35554-44-0)	-	0.0486	0.389	0.2	Trifloxystrobin		0.0406	0.000	0.0
Imidacloprid (138261-41-3)	-	0.0486	0.389	0.4	(141517-21-7)	-	0.0486	0.389	0.2



Color Key

Date Received: 04/22/2024

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.

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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		





Mass: 23g







M00065C13130809585



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Date Completed: 04/24/2024

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

Analysis Date/Time: 04/23/2024 1950 (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)	LOQ (µg/kg)	<u>Action Level</u> (μg/kg)
Arsenic (As)	-	58.2	92.1	200
Cadmium (Cd)	-	58.2	92.1	200
Lead (Pb)	-	58.2	92.1	500
Mercury (Hg)	-	58.2	92.1	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

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"-" not detected above LOD

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License: ADA 05 H273





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Cultivar (Strain) or Sample Description: Bens Buffalo

Date Completed: 04/24/2024

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 04/23/2024 1232 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	-

License: 00065C



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)

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