







SUMMARY OF ANALYSIS (SAMPLE ID: SA37695)

Testing Location:Customer ID: 2161Order ID: OR10973Sample Type: PrimaryArkansasRiver Valley Relief CultivationLot Number:Matrix: Flower232 S. Broadview St.5601 Old Greenwood Rd Suite CM00065C13137482147Mass: 23g

Greenbrier, AR 72058 Fort Smith, AR 72903 **Production Run: Date Collected:** 04/22/2024 License: ADH 113 License: 00065C 4060H20240329BBF-2 **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.

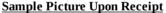
Moisture Content (%)Water Activity (aw)PASS/FAIL12.90.449 @ 24.4°CPASS

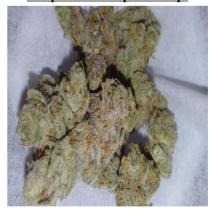
Moisture content/water activity action levels are referenced from the State of Arkansas MMJ testing guidelines.

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>	ids (Top 3)	<u>(%)</u>	mg/g
ТН	CA	17.6	176
СВ	GA	0.731	7.31
THO	CVA	0.676	6.76
TOTA	L CBD	-	-
TOTA	L THC	15.9	159
TOTAL CAN	NABINOIDS	19.5	195
Terpenes (Top 5)		<u>(%)</u>	µg/g
Terpir	olene	0.348	3480
β-Му	cene	0.228	2280
β-Caryo _l	hyllene	0.184	1840
β-Oci	mene	0.129	1290
d-Lim	onene	0.105	1050
TOTAL T	ERPENES	1.50	15000
Contaminants	ΡΔSS/ΕΔΙΙ	Sample Dictur	e Unon Receipt

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







Scan the QR code to verify results.

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Date Completed: 04/24/2024

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

Analysis Date/Time: 04/23/2024 1601 Method: HPLC/DAD Moisture Content (%): 12.9

Analyst: PW Instrument: Agilent 1100 Water Activity (aw): 0.449 @ 24.4°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	0.0437	0.102	-	-	-
CBCA	ND	ND	0.136	0.316	-	-	-
CBD	ND	ND	0.308	0.719	-	-	-
CBDA	ND	ND	0.113	0.265	-	-	-
CBDV	ND	ND	0.0494	0.115	-	-	-
CBDVA	ND	ND	0.132	0.308	-	-	-
CBG	ND	ND	0.200	0.467	-	-	-
CBGA	0.731	7.31	0.283	0.334	-	6.36	6.36
CBL	ND	ND	0.231	0.539	-	-	-
CBN	ND	ND	0.106	0.248	-	-	-
CBNA	ND	ND	0.115	0.267	-	-	-
Δ9-ΤΗС	0.440	4.40	0.127	0.296	-	3.83	3.83
Δ8-ΤΗС	ND	ND	0.198	0.463	-	-	-
THCA	17.6	176	0.0690	0.161	-	153	153
THCV	ND	ND	0.165	0.386	-	-	-
THCVA	0.676	6.76	0.0529	0.123	-	5.89	5.89
TOTAL	19.5	195		,		169	169
TOTAL CBC	-					-	
TOTAL CBD	-	-			-	-	-
TOTAL CBDV	-	-			-	-	-
TOTAL CBG	0.642	6.42			-	5.59	5.59
TOTAL CBN	-	-			-	-	-
TOTAL THC	15.9	159			-	138	138
TOTAL THCV	0.586	5.86			-	5.11	5.11

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.













Customer ID: 2161 **Testing Location:** Arkansas River Valley Relief Cultivation 232 S. Broadview St. 5601 Old Greenwood Rd Suite C Fort Smith, AR 72903 Greenbrier, AR 72058 License: ADH 113

Cultivar (Strain) or Sample Description: Bens Buffalo

M00065C13137482147 **Production Run:** License: 00065C 4060H20240329BBF-2

Order ID: OR10973 Sample Type: Primary Lot Number: 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 2109 Method: GC/MS **Deviations from SOP: Analyst:** KF Instrument: Agilent 7890/5975 None

maryst. Ki		1110	timent. Highent 7030/3373	rvonc
<u>Terpene</u>	<u>Result</u> (μg/g)	Result (%)		NAX CAN
α-Bisabolol	543	0.0543		
Camphene	<loq< td=""><td>-</td><td></td><td></td></loq<>	-		
δ-3-Carene	168	0.0168		
β-Caryophyllene	1840	0.184		
Caryophyllene oxide	214	0.0214	L	
p-Cymene	ND	-		
Eucalyptol	<loq< td=""><td>-</td><td></td><td></td></loq<>	-		
Geraniol	50.5	0.00505		
Guaiol	ND	-		Abbreviations: GC - Gas
α-Humulene	764	0.0764		Chromatography, MS - Mass
Isopulegol	ND	-		Spectrometry, RL - Reporting Limit <i>Abbreviations</i> : ND - Not Detected, ,
d-Limonene	1050	0.105		LOD - Limit of Detection, LOQ - Limit
Linalool	985	0.0985		of Quantitation
β-Myrcene	2280	0.228		This information is provided as a service and makes no claims of efficacy and/or
cis-Nerolidol	ND	-		safety of this product.
trans-Nerolidol	696	0.0696		Results are applicable only for the sample(s) analyzed and for the specific
α-Ocimene	<loq< td=""><td>-</td><td></td><td>analysis conducted.</td></loq<>	-		analysis conducted.
β-Ocimene	1290	0.129		This report is for informational purposes only and should not be used to diagnose,
α-Pinene	518	0.0518	1	treat, or prevent any
β-Pinene	893	0.0893		medical-related symptoms.
α-Terpinene	127	0.0127		The statements and results herein have not been approved and/or endorsed by
γ-Terpinene	80.9	0.00809		the FDA.
Terpinolene	3480	0.348		
TOTAL	15000	1.50		Reporting Limit (μg/g):

Reporting Limit (µg/g): 47.9

"-" Not detected above LOD.













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232 S. Broadview St. 5601 Old Greenwood Rd Suite C M00065C13137482147 Mass: 23g
Greenbrier, AR 72058 Fort Smith, AR 72903 Production Run: Date Collected: 04/22/2024

License: ADH 113 License: 00065C 4060H20240329BBF-2 **Date Received:** 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 1635 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)	-	0.0476	0.381	0.5	Kresoxim-methyl	_	0.0476	0.381	0.4
Acephate (30560-19-1)	-	0.0476	0.381	0.4	(143390-89-0)				
Acequinocyl (57960-19-7)	-	0.0476	0.381	2	Malathion (121-75-5)	-	0.0476	0.381	0.2
Acetamiprid (135410-20-7)	_	0.0476	0.381	0.2	Metalaxyl (57837-19-1) Methiocarb (2032-65-7)	-	0.0476 0.0476	0.381 0.381	0.2 0.2
Aldicarb (116-06-3)		0.0476	0.381	0.4	Methomyl (16752-77-5)		0.0476	0.381	0.2
Azoxystrobin	_	0.0470	0.301	0.4	,	-	0.0470	0.301	0.4
(131860-33-8)	-	0.0476	0.381	0.2	Methyl parathion (298-0-0)	-	0.0476	0.381	0.2
Bifenazate (149877-41-8)	-	0.0476	0.381	0.2	MGK 264 (113-48-4)	-	0.0476	0.381	0.2
Bifenthrin (82657-04-3)	-	0.0476	0.381	0.2	Myclobutanil		0.0476	0.381	0.2
Boscalid (188425-85-6)	-	0.0476	0.381	0.4	(88671-89-0)				
Carbaryl (63-25-2)	_	0.0476	0.381	0.2	Naled (300-76-5)	-	0.0476	0.381	0.5
Carbofuran (1563-66-2)	_	0.0476	0.381	0.2	Oxamyl (23135-22-0)	-	0.0476	0.381	1
Chlorantraniliprole (800008-45-7)	_	0.0476	0.381	0.2	Paclobutrazol (76738-62-0)	-	0.0476	0.381	0.4
Chlorfenapyr					Permethrins (52645-53-1)	-	0.0476	0.381	0.2
(122453-73-0)	-	0.0476	0.381	1	Phosmet (732-11-6)	-	0.0476	0.381	0.2
Chlorpyrifos (2921-88-2)	-	0.0476	0.381	0.2	Piperonyl butoxide	_	0.0476	0.381	2
Clofentezine (74115-24-5)	-	0.0476	0.381	0.2	(51-03-6)				
Cyfluthrin (68359-37-5)	-	0.0476	0.381	1	Prallethrins (2331-36-9)	-	0.0476	0.381	0.2
Cypermethrin (52315-07-8)	-	0.0476	0.381	1	Propiconazole (60207-90-1))	-	0.0476	0.381	0.4
Daminozide (1596-84-5)	_	0.0476	0.381	1	Propoxur (114-26-1)	-	0.0476	0.381	0.2
DDVP (62-73-7)	_	0.0476	0.381	0.1	Pyrethrins (8003-34-7)	-	0.0476	0.381	1
Diazinon (333-41-5)	_	0.0476	0.381	0.2	Pyridaben (96489-71-3)	-	0.0476	0.381	0.2
Dimethoate (60-51-5)	_	0.0476	0.381	0.2	Spinosad (168316-95-8)	-	0.0476	0.381	0.2
Ethoprophos (13194-48-4)	-	0.0476	0.381	0.2	Spiromesifen (283594-90-1)	_	0.0476	0.381	0.2
Etofenprox (80844-07-1)	-	0.0476	0.381	0.4	(263594-90-1) Spirotetramat				
Etoxazole (153233-91-1)	-	0.0476	0.381	0.2	(203313-25-1)	-	0.0476	0.381	0.2
Fenoxycarb (72490-01-8)	-	0.0476	0.381	0.2	Spiroxamine		0.0476	0.381	0.4
(E)-Fenpyroximate (134098-61-6)	-	0.0476	0.381	0.4	(118134-30-8) Tebuconazole		0.0476	0.381	0.4
Fipronil (120068-37-3)	-	0.0476	0.381	0.4	(80443-41-0)	_	0.0476	0.301	0.4
Flonicamid (158062-67-0)	-	0.0476	0.381	1	Thiacloprid		0.0476	0.381	0.2
Fludioxinil (131341-86-1)	-	0.0476	0.381	0.4	(111988-49-9)				
Hexythiazox (78587-05-0)	-	0.0476	0.381	1	Thiamethoxam (153719-23-4)	-	0.0476	0.381	0.2
Imazalil (35554-44-0)	-	0.0476	0.381	0.2	Trifloxystrobin				
Imidacloprid (138261-41-3)	-	0.0476	0.381	0.4	(141517-21-7)		0.0476	0.381	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.

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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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 5601 Old Greenwood Rd Suite C
 M00065C13137482147
 Mass: 23g

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

 License: ADH 113
 License: 00065C
 4060H20240329BBF-2
 Date Received: 04/22/2024

Cultivar (Strain) or Sample Description: Bens Buffalo

Date Completed: 04/24/2024

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

Analysis Date/Time: 04/23/2024 1957 (ICP/OES) Method: ICP/MS Deviations from SOP:

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

Analyst: KF

<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)	-	58.8	93.2	200
Cadmium (Cd)	-	58.8	93.2	200
Lead (Pb)	-	58.8	93.2	500
Mercury (Hg)	_	58.8	93.2	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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Action levels for heavy metals are referenced from the State of Arkansas MMJ testing guidelines.

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

 License: ADA 05_H273
 License: 00065C
 4060H20240329BBF-2
 Date Received: 04/22/2024

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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	-



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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