







# **SUMMARY OF ANALYSIS (SAMPLE ID: SA37696)**

**Order ID:** OR10973 **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 M00065C13134026649 **Mass:** 15g

Greenbrier, AR 72058 Fort Smith, AR 72903 **Production Run: Date Collected:** 04/22/2024 4060H20240329BBF-3 License: ADH 113 License: 00065C **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

> PASS/FAIL Water Activity (aw) **Moisture Content (%)** 0.457 @ 24.3°C **PASS** 12.8

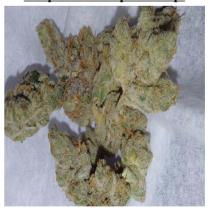
Moisture content/water activity action levels are referenced from the State of Arkansas MMJ testing guidelines.

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

Cannabinoi	ds (Top 3)	<u>(%)</u>	mg/g
THO	ČA .	18.2	182
CBC	A	0.882	8.82
THC	VA	0.756	7.56
TOTAL	CBD	-	-
TOTAL	THC	16.5	165
TOTAL CAN	IABINOIDS	20.4	204
Terpenes (Top 5)		<u>(%)</u>	µg/g
Terpin	olene	0.354	3540
β-Myr	cene	0.268	2680
β-Caryop	nyllene	0.242	2420
β-Ocir	nene	0.161	1610
Linal	ool	0.106	1060
TOTAL TE	RPENES	1.65	16500
Contaminants	PASS/FAIL	Sample Pictur	e Upon Receipt

<b>Contaminants</b>	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: SA37696)**

Testing Location:Customer ID: 2161Order ID: OR10973Sample Type: PrimaryArkansasRiver Valley Relief CultivationLot Number:Matrix: Flower232 S. Broadview St.5601 Old Greenwood Rd Suite CM00065C13134026649Mass: 15g

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

 License: ADH 113
 License: 00065C
 4060H20240329BBF-3
 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 1614 Method: HPLC/DAD Moisture Content (%): 12.8

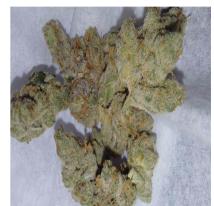
Analyst: PW Instrument: Agilent 1100 Water Activity (aw): 0.457 @ 24.3°C

Cannabinoid	Result (%)	Result (mg/g)	LOD (mg/g)	LOQ (mg/g)	Result (mg/ mL)	<u>Per</u> Serving (mg)	Per <u>Unit</u> (mg)
CBC	ND	ND	0.0427	0.0997	-	-	-
CBCA	ND	ND	0.133	0.309	-	-	-
CBD	ND	ND	0.301	0.703	-	-	-
CBDA	ND	ND	0.111	0.259	-	-	-
CBDV	ND	ND	0.0483	0.113	-	-	-
CBDVA	ND	ND	0.129	0.301	-	-	-
CBG	ND	ND	0.196	0.457	-	-	-
CBGA	0.882	8.82	0.277	0.327	-	7.69	7.69
CBL	ND	ND	0.226	0.528	-	-	-
CBN	ND	ND	0.104	0.242	-	-	-
CBNA	ND	ND	0.112	0.261	-	-	-
Δ9-ΤΗС	0.579	5.79	0.124	0.290	-	5.05	5.05
Δ8-ΤΗС	ND	ND	0.194	0.453	-	-	-
THCA	18.2	182	0.0674	0.158	-	158	158
THCV	ND	ND	0.162	0.377	-	-	-
THCVA	0.756	7.56	0.0517	0.120	-	6.59	6.59
TOTAL	20.4	204				178	178
TOTAL CBC	-	-			-	-	-
TOTAL CBD	-	-			-	-	-
TOTAL CBDV	-	-			-	-	-
TOTAL CBG	0.775	7.75			-	6.75	6.75
TOTAL CBN	-	-			-	-	-
TOTAL THC	16.5	165			-	144	144
TOTAL THCV	0.655	6.55			-	5.71	5.71

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) +  $\Delta$ 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.







License: ADH 113







### **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA37696)**

**Testing Location:** Customer ID: 2161 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: M00065C13134026649

**Production Run:** 4060H20240329BBF-3 Sample Type: Primary

Matrix: Flower **Mass:** 15g

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

**Date Completed:** 04/24/2024

#### TERPENOID PROFILE

Analysis Date/Time:04/23/2024 2132 Method: GC/MS **Deviations from SOP: Analyst: KF** Instrument: Agilent 7890/5975 None

<u>Terpene</u>	Result (µg/g)	Result (%)
α-Bisabolol	628	0.0628
Camphene	<loq< td=""><td>-</td></loq<>	-
δ-3-Carene	153	0.0153
β-Caryophyllene	2420	0.242
Caryophyllene oxide	263	0.0263
p-Cymene	ND	-
Eucalyptol	<loq< td=""><td>-</td></loq<>	-
Geraniol	55.4	0.00554
Guaiol	ND	-
α-Humulene	1050	0.105
Isopulegol	ND	-
d-Limonene	1030	0.103
Linalool	1060	0.106
β-Myrcene	2680	0.268
cis-Nerolidol	ND	-
trans-Nerolidol	433	0.0433
α-Ocimene	59.7	0.00597
β-Ocimene	1610	0.161
α-Pinene	482	0.0482
β-Pinene	810	0.0810
α-Terpinene	132	0.0132
γ-Terpinene	82.8	0.00828
Terpinolene	3540	0.354
TOTAL	16500	1.65



Abbreviations: GC - Gas Chromatography, MS - Mass Spectrometry, RL - Reporting Limit Abbreviations: ND - Not Detected. . LOD - Limit of Detection, LOQ - Limit of Quantitation

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Reporting Limit (µg/g): 46.8

"-" Not detected above LOD.





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### **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA37696)**

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 M00065C13134026649 Mass: 15g
Greenbrier, AR 72058 Fort Smith, AR 72903 Production Run: Date Collected: 04/22/2024

License: ADH 113 License: 00065C 4060H20240329BBF-3 **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 1650 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)	LOQ (µg/g)	Action Level (µg/g)	<u>Pesticide</u>	Result (µg/g)	<u>LOD</u> (µg/g)	LOQ (µg/g)	<u>Action</u> <u>Level</u> (μg/g)
Abamectin (71751-41-2)	-	0.0466	0.373	0.5	Kresoxim-methyl	_	0.0466	0.373	0.4
Acephate (30560-19-1)	-	0.0466	0.373	0.4	(143390-89-0)		0.0466	0.050	0.0
Acequinocyl (57960-19-7)	-	0.0466	0.373	2	Malathion (121-75-5)	-	0.0466	0.373	0.2
Acetamiprid (135410-20-7)	-	0.0466	0.373	0.2	Metalaxyl (57837-19-1) Methiocarb (2032-65-7)	-	0.0466 0.0466	0.373 0.373	0.2 0.2
Aldicarb (116-06-3)	-	0.0466	0.373	0.4	Methomyl (16752-77-5)	-	0.0466	0.373	0.4
Azoxystrobin (131860-33-8)	-	0.0466	0.373	0.2	Methyl parathion (298-0-0)	-	0.0466	0.373	0.2
Bifenazate (149877-41-8)	-	0.0466	0.373	0.2	MGK 264 (113-48-4)	-	0.0466	0.373	0.2
Bifenthrin (82657-04-3)	-	0.0466	0.373	0.2	Myclobutanil		0.0466	0.373	0.2
Boscalid (188425-85-6)	-	0.0466	0.373	0.4	(88671-89-0)		0.0400	0.575	0.2
Carbaryl (63-25-2)	-	0.0466	0.373	0.2	Naled (300-76-5)	-	0.0466	0.373	0.5
Carbofuran (1563-66-2)	-	0.0466	0.373	0.2	Oxamyl (23135-22-0)	-	0.0466	0.373	1
Chlorantraniliprole (800008-45-7)	-	0.0466	0.373	0.2	Paclobutrazol (76738-62-0)	-	0.0466	0.373	0.4
Chlorfenapyr		0.0466	0.272		Permethrins (52645-53-1)	-	0.0466	0.373	0.2
(122453-73-0)	-	0.0466	0.373	1	Phosmet (732-11-6)	-	0.0466	0.373	0.2
Chlorpyrifos (2921-88-2)	-	0.0466	0.373	0.2	Piperonyl butoxide (51-03-6)	_	0.0466	0.373	2
Clofentezine (74115-24-5)	-	0.0466	0.373	0.2	(51-05-6) Prallethrins (2331-36-9)		0.0466	0.373	0.2
Cyfluthrin (68359-37-5)	-	0.0466	0.373	1	,	-	0.0466	0.373	0.2
Cypermethrin (52315-07-8)	-	0.0466	0.373	1	Propiconazole (60207-90-1))	-	0.0466	0.373	0.4
Daminozide (1596-84-5)	-	0.0466	0.373	1	Propoxur (114-26-1)	-	0.0466	0.373	0.2
DDVP (62-73-7)	-	0.0466	0.373	0.1	Pyrethrins (8003-34-7)	-	0.0466	0.373	1
Diazinon (333-41-5)	-	0.0466	0.373	0.2	Pyridaben (96489-71-3)	-	0.0466	0.373	0.2
Dimethoate (60-51-5)	-	0.0466	0.373	0.2	Spinosad (168316-95-8)	-	0.0466	0.373	0.2
Ethoprophos (13194-48-4)	-	0.0466	0.373	0.2	Spiromesifen (283594-90-1)	-	0.0466	0.373	0.2
Etofenprox (80844-07-1)	-	0.0466	0.373	0.4	Spirotetramat				
Etoxazole (153233-91-1)	-	0.0466	0.373	0.2	(203313-25-1)	-	0.0466	0.373	0.2
Fenoxycarb (72490-01-8)	-	0.0466	0.373	0.2	Spiroxamine	_	0.0466	0.373	0.4
(E)-Fenpyroximate (134098-61-6)	-	0.0466	0.373	0.4	(118134-30-8) Tebuconazole		0.0466	0.373	0.4
Fipronil (120068-37-3)	-	0.0466	0.373	0.4	(80443-41-0)	_	0.0466	0.373	0.4
Flonicamid (158062-67-0)	-	0.0466	0.373	1	Thiacloprid	_	0.0466	0.373	0.2
Fludioxinil (131341-86-1)	-	0.0466	0.373	0.4	(111988-49-9)				
Hexythiazox (78587-05-0)	-	0.0466	0.373	1	Thiamethoxam (153719-23-4)	-	0.0466	0.373	0.2
Imazalil (35554-44-0)	-	0.0466	0.373	0.2	Trifloxystrobin		0.0466	0.050	0.0
Imidacloprid (138261-41-3)	-	0.0466	0.373	0.4	(141517-21-7)		0.0466	0.373	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		













# **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA37696)**

Testing Location:Customer ID: 2161Order ID: OR10973Sample Type: PrimaryArkansasRiver Valley Relief CultivationLot Number:Matrix: Flower232 S. Broadview St.5601 Old Greenwood Rd Suite CM00065C13134026649Mass: 15g

Greenbrier, AR 72058 Fort Smith, AR 72903 **Production Run: Date Collected:** 04/22/2024 License: ADH 113 License: 00065C 4060H20240329BBF-3 **Date Received:** 04/22/2024 **Cultivar (Strain) or Sample Description:** Bens Buffalo **Date Completed:** 04/24/2024

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

Analysis Date/Time: 04/23/2024 2005 (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><br>(μg/kg) | <u>LOD</u><br>(µg/kg) | <u>LOQ</u><br>(µg/kg) | <u>Action Level</u><br>(μg/kg) |
|--------------------|--------------------------|-----------------------|-----------------------|--------------------------------|
| Arsenic (As)       | -                        | 59.2                  | 93.8                  | 200                            |
| Cadmium (Cd)       | -                        | 59.2                  | 93.8                  | 200                            |
| Lead (Pb)          | -                        | 59.2                  | 93.8                  | 500                            |
| Mercury (Hg)       | _                        | 59.2                  | 93.8                  | 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.

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License: ADA 05 H273





4060H20240329BBF-3



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

### **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA37696)**

Testing Location:Customer ID: 2161Sample ID: SA37696Sample Type: PrimaryArkansasRiver Valley Relief CultivationLot Number:Matrix: Flower

232 S. Broadview St. 5601 Old Greenwood Rd Suite C M00065C13134026649 Mass: 15g
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

### 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><br>(CFU/g) | Action Level<br>(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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