







SUMMARY OF ANALYSIS (SAMPLE ID: SA40251)

Testing Location:	Customer ID: 2161	Order ID: OR11444	Sample Type: Primary
Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix: Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13138684504	Mass: 23g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 02/13/2025
License: ADH 113	License: 00065C	3087H20250109ATS-3	Date Received: 02/13/2025
Cultivar (Strain) or Sample De	Date Completed:02/17/2025		

*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/FAIL
11.9	0.340 @ 24.3°C	PASS

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)	<u>(%)</u>	<u>mg</u> /g
THCA	32.6	326
CBGA	1.68	16.8
Δ9-ТНС	0.725	7.25
TOTAL CBD	0.000	0.000
TOTAL THC	29.3	293
TOTAL CANNABINOIDS	35.3	353
<u>Terpenes (Top 5)</u>	<u>(%)</u>	<u>µg/g</u>
<u>Terpenes (Top 5)</u> β-Caryophyllene	<u>(%)</u> 0.851	<u>µg/g</u> 8510
β-Caryophyllene	0.851	8510
β-Caryophyllene d-Limonene	0.851 0.749	8510 7490
β-Caryophyllene d-Limonene β-Myrcene	0.851 0.749 0.413	8510 7490 4130

PASS/FAIL
PASS
PASS
PASS





Scan the QR code to verify results.

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Cultivar (Strain) or Sample D	Date Completed:02/17/2025		

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

Analysis Date/Time: 02/14/2025 1514 Analyst: PW Method: HPLC/DAD Instrument: Agilent 1100

<u>Cannabinoid</u>	<u>Result</u> (%)	<u>Result</u> (mg/g)	<u>LOD</u> (mg/g)	LOQ (mg/g)	<u>Result</u> (mg/ S mL)	<u>Per</u> Serving (mg)	<u>Per</u> <u>Unit</u> (mg)
CBC	ND	ND	0.0414	0.0967	-	0.000	0.000
CBCA	ND	ND	0.129	0.300	-	0.000	0.000
CBD	ND	ND	0.292	0.682	-	0.000	0.000
CBDA	ND	ND	0.108	0.251	-	0.000	0.000
CBDV	ND	ND	0.0469	0.109	-	0.000	0.000
CBDVA	ND	ND	0.125	0.292	-	0.000	0.000
CBG	0.0747	0.747	0.190	0.443	-	0.658	0.658
CBGA	1.68	16.8	0.269	0.317	-	14.8	14.8
CBL	ND	ND	0.219	0.512	-	0.000	0.000
CBN	ND	ND	0.101	0.235	-	0.000	0.000
CBNA	ND	ND	0.109	0.253	-	0.000	0.000
CBT	ND	ND	0.158	0.368	-	0.000	0.000
Δ9-ΤΗC	0.725	7.25	0.121	0.281	-	6.39	6.39
$\Delta 8$ -THC	ND	ND	0.188	0.440	-	0.000	0.000
THCA	32.6	326	0.0654	0.153	-	287	287
THCV	ND	ND	0.157	0.366	-	0.000	0.000
THCVA	0.229	2.29	0.0502	0.117	-	2.02	2.02
TOTAL	35.3	353				311	311
TOTAL CBC	0.000	0.000				0.000	0.000
TOTAL CBD	0.000	0.000			-	0.000	0.000
TOTAL CBDV	0.000	0.000			-	0.000	0.000
TOTAL CBG	1.56	15.6			-	13.7	13.7
TOTAL CBN	0.000	0.000			-	0.000	0.000
TOTAL THC	29.3	293			-	258	258
TOTAL THCV	0.199	1.99			-	1.75	1.75

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, ND - Not Detected (less than LOD)

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Moisture Content (%): 11.9 Water Activity (aw): 0.340 @ 24.3°C



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

"-" Not reported for this sample.

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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Order ID: OR11444 **Testing Location:** Customer ID: 2161 Arkansas **River Valley Relief Cultivation** Lot Number: 232 S. Broadview St. 5601 Old Greenwood Rd Suite C M00065C13138684504 Greenbrier, AR 72058 Fort Smith, AR 72903 **Production Run:** 3087H20250109ATS-3 License: ADH 113 License: 00065C Cultivar (Strain) or Sample Description: Animal Tsunami

Sample Type: Primary Matrix: Flower Mass: 23g Date Collected: 02/13/2025 Date Received: 02/13/2025 Date Completed:02/17/2025

Analysis Date/Time:02/14/2025 1933 Analyst: KF

TERPENOID PROFILE

Method: GC/MS Instrument: Agilent 7890/5975

Deviations from SOP: None

5			0
<u>Terpene</u>	<u>Result</u> (µg/g)	<u>Result</u> (%)	
α-Bisabolol	1430	0.143	
Camphene	407	0.0407	
δ-3-Carene	156	0.0156	
β-Caryophyllene	8510	0.851	
Caryophyllene oxide	56.6	0.00566	
p-Cymene	128	0.0128	
Eucalyptol	78.3	0.00783	
Geraniol	560	0.0560	
Guaiol	886	0.0886	
α-Humulene	2530	0.253	
Isopulegol	158	0.0158	
d-Limonene	7490	0.749	
Linalool	1230	0.123	
β-Myrcene	4130	0.413	
cis-Nerolidol	ND	-	
trans-Nerolidol	659	0.0659	
α-Ocimene	159	0.0159	
β-Ocimene	517	0.0517	
α-Pinene	1550	0.155	
β-Pinene	1600	0.160	
α-Terpinene	162	0.0162	
γ-Terpinene	81.8	0.00818	
Terpinolene	137	0.0137	
TOTAL	32600	3.26	



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): 45.4

"-" Not detected above LOD.











Deviations from SOP:

None



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA40251)

Testing Location:	Customer ID: 2161	Order ID: OR11444	Sample Type: Primary
Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix: Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13138684504	Mass: 23g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 02/13/2025
License: ADH 113	License: 00065C	3087H20250109ATS-3	Date Received: 02/13/2025
Cultivar (Strain) or Sample Des	Date Completed:02/17/2025		

Analysis Date/Time: 02/14/2025 1539 Analyst: KF

PESTICIDES PROFILE (SOP: SOP-PEST-001)

Method: LC/MS/MS Instrument: Shimadzu LC-8050

<u>Pesticide</u>	<u>Result</u> (µg/g)	<u>LOD</u> (µg/g)	<u>LOQ</u> (µg/g)	<u>Action</u> Level (µg/g)	<u>Pesticide</u>	<u>Result</u> (µg/g)	<u>LOD</u> (µg/g)	<u>LOQ</u> (µg/g)	<u>Action</u> Level (µg/g)	99
Abamectin (71751-41-2)	-	0.0451	0.361	0.5	Kresoxim-methyl	_	0.0451	0.361	0.4	
Acephate (30560-19-1)	-	0.0451	0.361	0.4	(143390-89-0)					68.85
Acequinocyl (57960-19-7)	-	0.0451	0.361	2	Malathion (121-75-5)	-	0.0451	0.361	0.2	
Acetamiprid (135410-20-7)	-	0.0451	0.361	0.2	Metalaxyl (57837-19-1) Methiocarb (2032-65-7)	-	0.0451 0.0451	0.361 0.361	0.2 0.2	<u>Color Key</u>
Aldicarb (116-06-3)	-	0.0451	0.361	0.4	Methomyl (16752-77-5)	-	0.0451	0.361	0.4	RESULT < AL
Azoxystrobin (131860-33-8)	-	0.0451	0.361	0.2	Methyl parathion (298-0-0)	-	0.0451	0.361	0.2	RESULT > AL
Bifenazate (149877-41-8)	-	0.0451	0.361	0.2	MGK 264 (113-48-4)	-	0.0451	0.361	0.2	"DET" detected less than LOQ
Bifenthrin (82657-04-3)	-	0.0451	0.361	0.2	Myclobutanil		0.0451	0.361	0.2	"-" not detected above
Boscalid (188425-85-6)	-	0.0451	0.361	0.4	(88671-89-0)					LOD
Carbaryl (63-25-2)	-	0.0451	0.361	0.2	Naled (300-76-5)	-	0.0451	0.361	0.5	
Carbofuran (1563-66-2)	-	0.0451	0.361	0.2	Oxamyl (23135-22-0)	-	0.0451	0.361	1	Permethrins measured as the cumulative residue of the <i>cis</i> - and
Chlorantraniliprole (800008-45-7)	-	0.0451	0.361	0.2	Paclobutrazol (76738-62-0)	-	0.0451	0.361	0.4	trans- permethrin isomers.
Chlorfenapyr	_	0.0451	0.201	1	Permethrins (52645-53-1)	-	0.0451	0.361	0.2	Pyrethrins measured as the
(122453-73-0)	-	0.0451	0.361	1	Phosmet (732-11-6)	-	0.0451	0.361	0.2	cumulative residue of the pyrethrin I, cinerin I, and jasmolin
Chlorpyrifos (2921-88-2)	-	0.0451	0.361	0.2	Piperonyl butoxide	_	0.0451	0.361	2	I isomers.
Clofentezine (74115-24-5)	-	0.0451	0.361	0.2	(51-03-6)		0.0454	0.001		Action levels are
Cyfluthrin (68359-37-5)	-	0.0451	0.361	1	Prallethrins (2331-36-9)	-	0.0451	0.361	0.2	referenced from the State of
Cypermethrin (52315-07-8)	-	0.0451	0.361	1	Propiconazole (60207-90-1))	-	0.0451	0.361	0.4	Arkansas MMJ testing
Daminozide (1596-84-5)	-	0.0451	0.361	1	Propoxur (114-26-1)	-	0.0451	0.361	0.2	guidelines.
DDVP (62-73-7)	-	0.0451	0.361	0.1	Pyrethrins (8003-34-7)	-	0.0451	0.361	1	A value of "-" for the action level
Diazinon (333-41-5)	-	0.0451	0.361	0.2	Pyridaben (96489-71-3)	-	0.0451	0.361	0.2	means that analyte is not currently regulated by the
Dimethoate (60-51-5)	-	0.0451	0.361	0.2	Spinosad (168316-95-8)	-	0.0451	0.361	0.2	regulations referenced above.
Ethoprophos (13194-48-4)	-	0.0451	0.361	0.2	Spiromesifen (283594-90-1)	-	0.0451	0.361	0.2	C
Etofenprox (80844-07-1)	-	0.0451	0.361	0.4	Spirotetramat					<i>Disclaimer</i> : This information is provided as a service and makes
Etoxazole (153233-91-1)	-	0.0451	0.361	0.2	(203313-25-1)	-	0.0451	0.361	0.2	no claims of efficacy and/or safety
Fenoxycarb (72490-01-8)	-	0.0451	0.361	0.2	Spiroxamine		0.0451	0.361	0.4	of this product. Results are applicable only for the sample(s)
(E)-Fenpyroximate (134098-61-6)	-	0.0451	0.361	0.4	(118134-30-8) Tebuconazole					analyzed and for the specific analysis conducted. This report is
Fipronil (120068-37-3)	-	0.0451	0.361	0.4	(80443-41-0)	-	0.0451	0.361	0.4	for informational purposes only
Flonicamid (158062-67-0)	-	0.0451	0.361	1	Thiacloprid	_	0.0451	0.361	0.2	and should not be used to diagnose, treat, or prevent any
Fludioxinil (131341-86-1)	-	0.0451	0.361	0.4	(111988-49-9)					medical-related symptoms. The
Hexythiazox (78587-05-0)	-	0.0451	0.361	1	Thiamethoxam (153719-23-4)	-	0.0451	0.361	0.2	statements and results herein have
Imazalil (35554-44-0)	-	0.0451	0.361	0.2	Trifloxystrobin					not been approved and/or endorsed by the FDA.
Imidacloprid (138261-41-3)	-	0.0451	0.361	0.4	(141517-21-7)	-	0.0451	0.361	0.2	

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

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



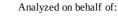
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Testing Location:	Customer ID: 2161	Order ID: OR11444	Sample Type: Primary
Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix: Flower
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Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 02/13/2025
License: ADH 113	License: 00065C	3087H20250109ATS-3	Date Received: 02/13/2025
Cultivar (Strain) or Sample Des	Date Completed:02/17/2025		

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

Analysis Date/Ti	me: 02/14/2025 2	2313	Deviations from SOP: None		
Analyst: KF			inst unci	it: Agilent 7700x	TOL
<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)	1968
Arsenic (As)	-	57.0	90.2	200	Mata NA
Cadmium (Cd)	-	57.0	90.2	200	Ltd at 212
Lead (Pb)	-	57.0	90.2	500	
Mercury (Hg)	-	57.0	90.2	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

<u>Color Key</u>



"DET" detected less than LOQ

"-" not detected above LOD

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

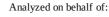
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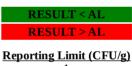
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Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 02/13/2025
License: ADA 05_H273	License: 00065C	3087H20250109ATS-3	Date Received: 02/13/2025
Cultivar (Strain) or Sample De	Date Completed:02/17/2025		

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 02/14/20 Analyst: PW		Hardy Diagnostics CompactDı nt: Thermo Incubator	ry Deviations from SOP: None
Bacteria/Microbe	<u>Result</u> (CFU/g)	<u>Action Level</u> (CFU/g)	150 A
Aerobic Plate Count	NT	-	Wata Ma
Coliforms, Total	Absent	1	
Escherichia Coli (E. Coli)	Absent	100	
Mold/Yeast	NT	-	
Pseudomonas aeruginosa	NT	-	A CANE
Salmonella spp.	NT	-	Contraction (Contraction of the Contraction of the
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





1

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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