

SUMMARY OF ANALYSIS (SAMPLE ID: SA40249)

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	M00065C13135930292	Mass: 23g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 02/13/2025
License: ADH 113	License: 00065C	3087H20250109ATS-1	Date Received: 02/13/2025
Cultivar (Strain) or Sample Description: Animal Tsunami			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 (%)

11.4

Water Activity (aw)

0.329 @ 24.4°C

PASS/FAIL

PASS

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

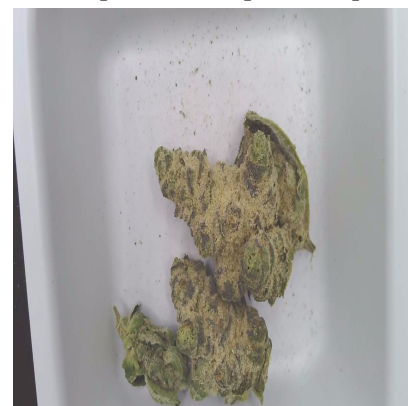
Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

Cannabinoids (Top 3)	(%)	mg/g
THCA	34.3	343
CBGA	1.17	11.7
Δ9-THC	0.893	8.93
TOTAL CBD	0.000	0.000
TOTAL THC	31.0	310
TOTAL CANNABINOIDS	36.7	367

Terpenes (Top 5)	(%)	µg/g
d-Limonene	0.806	8060
β-Caryophyllene	0.577	5770
β-Myrcene	0.423	4230
α-Pinene	0.181	1810
β-Pinene	0.180	1800
TOTAL TERPENES	2.90	29000

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

Sample Picture Upon Receipt



Scan the QR code to verify results.

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Kyle W. Felling
Kyle W. Felling, Ph.D.
Laboratory Director



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA40249)

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

Analysis Date/Time: 02/14/2025 1448
Analyst: PW
Method: HPLC/DAD
Instrument: Agilent 1100
Moisture Content (%): 11.4
Water Activity (aw): 0.329 @ 24.4°C

Cannabinoid	Result (%)	Result (mg/g)	LOD (mg/g)	LOQ (mg/g)	Result (mg/mL)	Per Serving (mg)	Per Unit (mg)
CBC	ND	ND	0.0450	0.105	-	0.000	0.000
CBCA	ND	ND	0.140	0.326	-	0.000	0.000
CBD	ND	ND	0.317	0.741	-	0.000	0.000
CBDV	ND	ND	0.0509	0.119	-	0.000	0.000
CBDVA	ND	ND	0.136	0.317	-	0.000	0.000
CBG	DET	DET	0.206	0.481	-	0.000	0.000
CBGA	1.17	11.7	0.292	0.345	-	10.4	10.4
CBL	ND	ND	0.238	0.556	-	0.000	0.000
CBN	ND	ND	0.109	0.255	-	0.000	0.000
CBNA	ND	ND	0.118	0.275	-	0.000	0.000
CBT	ND	ND	0.171	0.399	-	0.000	0.000
Δ9-THC	0.893	8.93	0.131	0.305	-	7.91	7.91
Δ8-THC	ND	ND	0.204	0.477	-	0.000	0.000
THCA	34.3	343	0.0710	0.166	-	304	304
THCV	ND	ND	0.171	0.397	-	0.000	0.000
THCVA	0.293	2.93	0.0545	0.127	-	2.60	2.60
TOTAL	36.7	367			-	325	325
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	1.03	10.3			-	9.13	9.13
TOTAL CBN	0.000	0.000			-	0.000	0.000
TOTAL THC	31.0	310			-	275	275
TOTAL THCV	0.254	2.54			-	2.25	2.25



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 = (CBDV 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) + Δ9-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.

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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TERPENOID PROFILE

Analysis Date/Time: 02/14/2025 1847

Analyst: KF

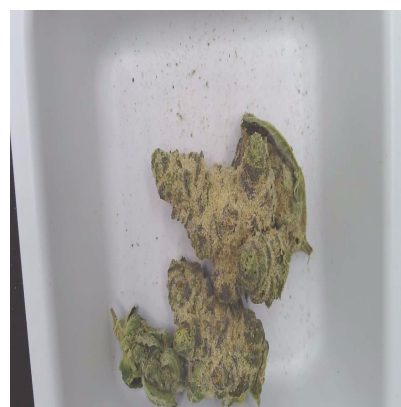
Method: GC/MS

Instrument: Agilent 7890/5975

Deviations from SOP:

None

<u>Terpene</u>	<u>Result</u> (µg/g)	<u>Result</u> (%)	
α-Bisabolol	750	0.0750	
Camphene	448	0.0448	
δ-3-Carene	168	0.0168	
β-Caryophyllene	5770	0.577	
Caryophyllene oxide	ND	-	
p-Cymene	140	0.0140	
Eucalyptol	85.5	0.00855	
Geraniol	587	0.0587	
Guaiol	639	0.0639	
α-Humulene	1670	0.167	
Isopulegol	156	0.0156	
d-Limonene	8060	0.806	
Linalool	1140	0.114	
β-Myrcene	4230	0.423	
cis-Nerolidol	ND	-	
trans-Nerolidol	460	0.0460	
α-Ocimene	167	0.0167	
β-Ocimene	535	0.0535	
α-Pinene	1810	0.181	
β-Pinene	1800	0.180	
α-Terpinene	176	0.0176	
γ-Terpinene	88.3	0.00883	
Terpinolene	146	0.0146	
TOTAL	29000	2.90	



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): 49.3

"-" Not detected above LOD.

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PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 02/14/2025 1509

Method: LC/MS/MS

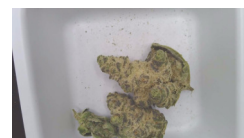
Deviations from SOP:

Analyst: KF

Instrument: Shimadzu LC-8050

None

Pesticide	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)	Pesticide	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)
Abamectin (71751-41-2)	-	0.0489	0.391	0.5	Kresoxim-methyl (143390-89-0)	-	0.0489	0.391	0.4
Acephate (30560-19-1)	-	0.0489	0.391	0.4	Malathion (121-75-5)	-	0.0489	0.391	0.2
Acetaminophen (57960-19-7)	-	0.0489	0.391	2	Metalaxyl (57837-19-1)	-	0.0489	0.391	0.2
Acetamiprid (135410-20-7)	-	0.0489	0.391	0.2	Methiocarb (2032-65-7)	-	0.0489	0.391	0.2
Aldicarb (116-06-3)	-	0.0489	0.391	0.4	Methomyl (16752-77-5)	-	0.0489	0.391	0.4
Azoxystrobin (131860-33-8)	-	0.0489	0.391	0.2	Methyl parathion (298-0-0)	-	0.0489	0.391	0.2
Bifenazate (149877-41-8)	-	0.0489	0.391	0.2	MGK 264 (113-48-4)	-	0.0489	0.391	0.2
Bifenthrin (82657-04-3)	-	0.0489	0.391	0.2	Myclobutanil (88671-89-0)	-	0.0489	0.391	0.2
Boscalid (188425-85-6)	-	0.0489	0.391	0.4	Naled (300-76-5)	-	0.0489	0.391	0.5
Carbaryl (63-25-2)	-	0.0489	0.391	0.2	Oxamyl (23135-22-0)	-	0.0489	0.391	1
Carbofuran (1563-66-2)	-	0.0489	0.391	0.2	Paclobutrazol (76738-62-0)	-	0.0489	0.391	0.4
Chlorantraniliprole (800008-45-7)	-	0.0489	0.391	0.2	Permethrins (52645-53-1)	-	0.0489	0.391	0.2
Chlorfenapyr (122453-73-0)	-	0.0489	0.391	1	Phosmet (732-11-6)	-	0.0489	0.391	0.2
Chlorpyrifos (2921-88-2)	-	0.0489	0.391	0.2	Piperonyl butoxide (51-03-6)	-	0.0489	0.391	2
Clofentezine (74115-24-5)	-	0.0489	0.391	0.2	Prallethrin (2331-36-9)	-	0.0489	0.391	0.2
Cyfluthrin (68359-37-5)	-	0.0489	0.391	1	Propiconazole (60207-90-1)	-	0.0489	0.391	0.4
Cypermethrin (52315-07-8)	-	0.0489	0.391	1	Propoxur (114-26-1)	-	0.0489	0.391	0.2
Daminozide (1596-84-5)	-	0.0489	0.391	1	Pyrethrins (8003-34-7)	-	0.0489	0.391	1
DDVP (62-73-7)	-	0.0489	0.391	0.1	Pyridaben (96489-71-3)	-	0.0489	0.391	0.2
Diazinon (333-41-5)	-	0.0489	0.391	0.2	Spinosad (168316-95-8)	-	0.0489	0.391	0.2
Dimethoate (60-51-5)	-	0.0489	0.391	0.2	Spiromesifen (283594-90-1)	-	0.0489	0.391	0.2
Ethoprophos (13194-48-4)	-	0.0489	0.391	0.2	Spirotetramat (203313-25-1)	-	0.0489	0.391	0.2
Etofenprox (80844-07-1)	-	0.0489	0.391	0.4	Spiroxamine (118134-30-8)	-	0.0489	0.391	0.4
Etoazoxole (153233-91-1)	-	0.0489	0.391	0.2	Tebuconazole (80443-41-0)	-	0.0489	0.391	0.4
Fenoxycarb (72490-01-8)	-	0.0489	0.391	0.2	Thiacloprid (111988-49-9)	-	0.0489	0.391	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0489	0.391	0.4	Thiamethoxam (153719-23-4)	-	0.0489	0.391	0.2
Fipronil (120068-37-3)	-	0.0489	0.391	0.4	Trifloxystrobin (141517-21-7)	-	0.0489	0.391	0.2
Flonicamid (158062-67-0)	-	0.0489	0.391	1					
Fludioxinil (131341-86-1)	-	0.0489	0.391	0.4					
Hexythiazox (78587-05-0)	-	0.0489	0.391	1					
Imazalil (35554-44-0)	-	0.0489	0.391	0.2					
Imidacloprid (138261-41-3)	-	0.0489	0.391	0.4					



Color Key

RESULT < AL

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

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

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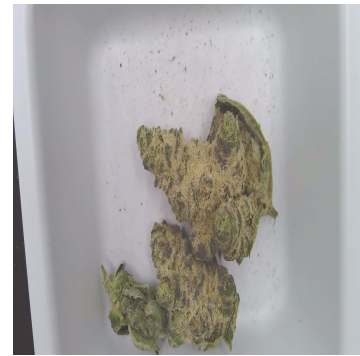
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HEAVY METAL PROFILE (SOP: SOP-ICP-200.6)

Analysis Date/Time: 02/14/2025 2300	Method: ICP/MS	Deviations from SOP:
Analyst: KF	Instrument: Agilent 7700x	None

Heavy Metal	Result (µg/kg)	LOD (µg/kg)	LOQ (µg/kg)	Action Level (µg/kg)
Arsenic (As)	-	57.1	90.4	200
Cadmium (Cd)	-	57.1	90.4	200
Lead (Pb)	-	57.1	90.4	500
Mercury (Hg)	-	57.1	90.4	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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MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 02/14/2025 1244	Method: Hardy Diagnostics CompactDry	Deviations from SOP:
Analyst: PW	Instrument: Thermo Incubator	None

Bacteria/Microbe	Result (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)

1

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