

SUMMARY OF ANALYSIS (SAMPLE ID: SA40250)

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	M00065C13137844341	Mass: 23g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 02/13/2025
License: ADH 113	License: 00065C	3087H20250109ATS-2	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 (%)

12.5

Water Activity (aw)

0.336 @ 24.4°C

PASS/FAIL

PASS

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

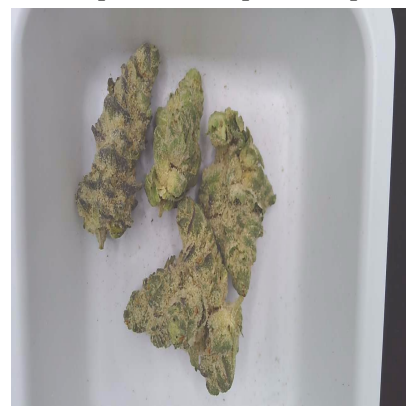
Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

Cannabinoids (Top 3)	(%)	mg/g
THCA	33.5	335
CBGA	1.11	11.1
Δ9-THC	0.695	6.95
TOTAL CBD	0.000	0.000
TOTAL THC	30.1	301
TOTAL CANNABINOIDS	36.0	360

Terpenes (Top 5)	(%)	µg/g
d-Limonene	0.752	7520
β-Caryophyllene	0.540	5400
β-Myrcene	0.400	4000
β-Pinene	0.176	1760
α-Pinene	0.170	1700
TOTAL TERPENES	2.79	27900

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



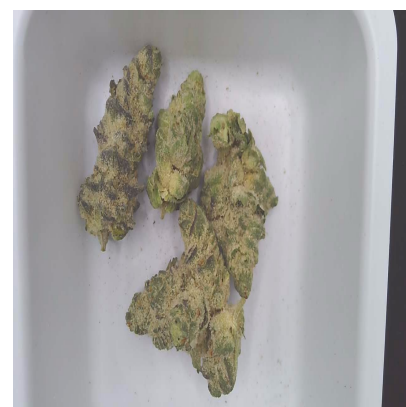
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CANNABINOID (POTENCY) PROFILE (SOP: SOP-CANN-001)

Analysis Date/Time: 02/14/2025 1501 **Method:** HPLC/DAD **Moisture Content (%):** 12.5
Analyst: PW **Instrument:** Agilent 1100 **Water Activity (aw):** 0.336 @ 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	0.0436	0.102	-	0.000	0.000
CBCA	0.363	3.63	0.135	0.316	-	3.18	3.18
CBD	ND	ND	0.307	0.717	-	0.000	0.000
CBDV	ND	ND	0.113	0.264	-	0.000	0.000
CBDVA	ND	ND	0.0493	0.115	-	0.000	0.000
CBDVA	ND	ND	0.131	0.307	-	0.000	0.000
CBG	DET	DET	0.199	0.466	-	0.000	0.000
CBGA	1.11	11.1	0.283	0.334	-	9.69	9.69
CBL	ND	ND	0.230	0.538	-	0.000	0.000
CBN	ND	ND	0.106	0.247	-	0.000	0.000
CBNA	ND	ND	0.114	0.266	-	0.000	0.000
CBT	ND	ND	0.166	0.387	-	0.000	0.000
Δ9-THC	0.695	6.95	0.127	0.296	-	6.08	6.08
Δ8-THC	ND	ND	0.198	0.462	-	0.000	0.000
THCA	33.5	335	0.0688	0.161	-	293	293
THCV	ND	ND	0.165	0.385	-	0.000	0.000
THCVA	0.296	2.96	0.0527	0.123	-	2.59	2.59
TOTAL	36.0	360			-	315	315
TOTAL CBC	0.319	3.19			-	2.79	2.79
TOTAL CBD	0.000	0.000			-	0.000	0.000
TOTAL CBDV	0.000	0.000			-	0.000	0.000
TOTAL CBG	0.973	9.73			-	8.51	8.51
TOTAL CBN	0.000	0.000			-	0.000	0.000
TOTAL THC	30.1	301			-	263	263
TOTAL THCV	0.257	2.57			-	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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Kyle W. Felling
Kyle W. Felling, Ph.D.
Laboratory Director



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TERPENOID PROFILE

Analysis Date/Time: 02/14/2025 1910

Method: GC/MS

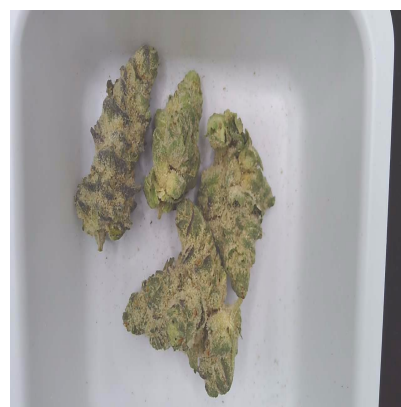
Deviations from SOP:

Analyst: KF

Instrument: Agilent 7890/5975

None

Terpene	Result (µg/g)	Result (%)
α-Bisabolol	976	0.0976
Camphene	431	0.0431
δ-3-Carene	163	0.0163
β-Caryophyllene	5400	0.540
Caryophyllene oxide	ND	-
p-Cymene	134	0.0134
Eucalyptol	81.9	0.00819
Geraniol	636	0.0636
Guaiol	656	0.0656
α-Humulene	1540	0.154
Isopulegol	158	0.0158
d-Limonene	7520	0.752
Linalool	1210	0.121
β-Myrcene	4000	0.400
cis-Nerolidol	ND	-
trans-Nerolidol	489	0.0489
α-Ocimene	160	0.0160
β-Ocimene	452	0.0452
α-Pinene	1700	0.170
β-Pinene	1760	0.176
α-Terpinene	170	0.0170
γ-Terpinene	85.0	0.00850
Terpinolene	137	0.0137
TOTAL	27900	2.79



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): 47.8

"-" Not detected above LOD.

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PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 02/14/2025 1524

Analyst: KF

Method: LC/MS/MS

Instrument: Shimadzu LC-8050

Deviations from SOP:

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)	-	0.0474	0.379	0.5	Kresoxim-methyl (143390-89-0)	-	0.0474	0.379	0.4
Acephate (30560-19-1)	-	0.0474	0.379	0.4	Malathion (121-75-5)	-	0.0474	0.379	0.2
Acetaminophen (57960-19-7)	-	0.0474	0.379	2	Metalaxyl (57837-19-1)	-	0.0474	0.379	0.2
Acetamiprid (135410-20-7)	-	0.0474	0.379	0.2	Methiocarb (2032-65-7)	-	0.0474	0.379	0.2
Aldicarb (116-06-3)	-	0.0474	0.379	0.4	Methomyl (16752-77-5)	-	0.0474	0.379	0.4
Azoxystrobin (131860-33-8)	-	0.0474	0.379	0.2	Methyl parathion (298-0-0)	-	0.0474	0.379	0.2
Bifenazate (149877-41-8)	-	0.0474	0.379	0.2	MGK 264 (113-48-4)	-	0.0474	0.379	0.2
Bifenthrin (82657-04-3)	-	0.0474	0.379	0.2	Myclobutanil (88671-89-0)	-	0.0474	0.379	0.2
Boscalid (188425-85-6)	-	0.0474	0.379	0.4	Naled (300-76-5)	-	0.0474	0.379	0.5
Carbaryl (63-25-2)	-	0.0474	0.379	0.2	Oxamyl (23135-22-0)	-	0.0474	0.379	1
Carbofuran (1563-66-2)	-	0.0474	0.379	0.2	Paclobutrazol (76738-62-0)	-	0.0474	0.379	0.4
Chlorantraniliprole (800008-45-7)	-	0.0474	0.379	0.2	Permethrins (52645-53-1)	-	0.0474	0.379	0.2
Chlorfenapyr (122453-73-0)	-	0.0474	0.379	1	Phosmet (732-11-6)	-	0.0474	0.379	0.2
Chlorpyrifos (2921-88-2)	-	0.0474	0.379	0.2	Piperonyl butoxide (51-03-6)	-	0.0474	0.379	2
Clofentezine (74115-24-5)	-	0.0474	0.379	0.2	Prallethrin (2331-36-9)	-	0.0474	0.379	0.2
Cyfluthrin (68359-37-5)	-	0.0474	0.379	1	Propiconazole (60207-90-1)	-	0.0474	0.379	0.4
Cypermethrin (52315-07-8)	-	0.0474	0.379	1	Propoxur (114-26-1)	-	0.0474	0.379	0.2
Daminozide (1596-84-5)	-	0.0474	0.379	1	Pyrethrins (8003-34-7)	-	0.0474	0.379	1
DDVP (62-73-7)	-	0.0474	0.379	0.1	Pyridaben (96489-71-3)	-	0.0474	0.379	0.2
Diazinon (333-41-5)	-	0.0474	0.379	0.2	Spinosad (168316-95-8)	-	0.0474	0.379	0.2
Dimethoate (60-51-5)	-	0.0474	0.379	0.2	Spiromesifen (283594-90-1)	-	0.0474	0.379	0.2
Ethoprophos (13194-48-4)	-	0.0474	0.379	0.2	Spirotetramat (203313-25-1)	-	0.0474	0.379	0.2
Etofenprox (80844-07-1)	-	0.0474	0.379	0.4	Spiroxamine (118134-30-8)	-	0.0474	0.379	0.4
Etoazazole (153233-91-1)	-	0.0474	0.379	0.2	Tebuconazole (80443-41-0)	-	0.0474	0.379	0.4
Fenoxycarb (72490-01-8)	-	0.0474	0.379	0.2	Thiacloprid (111988-49-9)	-	0.0474	0.379	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0474	0.379	0.4	Thiamethoxam (153719-23-4)	-	0.0474	0.379	0.2
Fipronil (120068-37-3)	-	0.0474	0.379	0.4	Trifloxystrobin (141517-21-7)	-	0.0474	0.379	0.2
Flonicamid (158062-67-0)	-	0.0474	0.379	1					
Fludioxinil (131341-86-1)	-	0.0474	0.379	0.4					
Hexythiazox (78587-05-0)	-	0.0474	0.379	1					
Imazalil (35554-44-0)	-	0.0474	0.379	0.2					
Imidacloprid (138261-41-3)	-	0.0474	0.379	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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HEAVY METAL PROFILE (SOP: SOP-ICP-200.6)

Analysis Date/Time: 02/14/2025 2307	Method: ICP/MS	Deviations from SOP:
	Instrument: Agilent 7700x	None
Analyst: KF		

Heavy Metal	Result (µg/kg)	LOD (µg/kg)	LOQ (µg/kg)	Action Level (µg/kg)
Arsenic (As)	-	57.8	91.6	200
Cadmium (Cd)	-	57.8	91.6	200
Lead (Pb)	-	57.8	91.6	500
Mercury (Hg)	-	57.8	91.6	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

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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