

SUMMARY OF ANALYSIS (SAMPLE ID: SA40248)

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	M00065C13136398026	Mass: 23g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 02/13/2025
License: ADH 113	License: 00065C	3087H20250109ATS-4	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 (%)

12.1

Water Activity (aw)

0.341 @ 24.4°C

PASS/FAIL

PASS

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

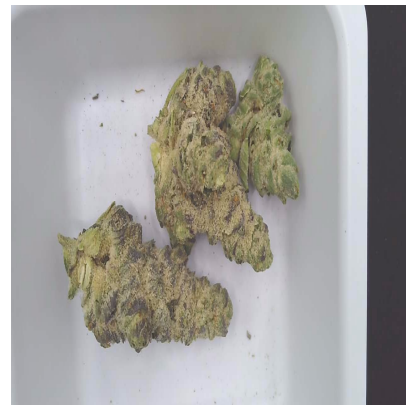
Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

Cannabinoids (Top 3)	(%)	mg/g
THCA	35.0	350
CBGA	1.38	13.8
Δ9-THC	0.688	6.88
TOTAL CBD	0.000	0.000
TOTAL THC	31.4	314
TOTAL CANNABINOIDS	37.4	374

Terpenes (Top 5)	(%)	µg/g
d-Limonene	0.788	7880
β-Caryophyllene	0.551	5510
β-Myrcene	0.398	3980
β-Pinene	0.175	1750
α-Pinene	0.174	1740
TOTAL TERPENES	2.82	28200

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



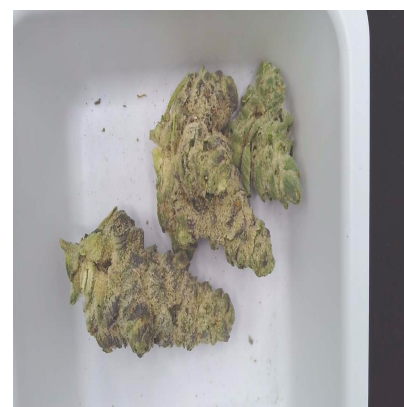
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CANNABINOID (POTENCY) PROFILE (SOP: SOP-CANN-001)

Analysis Date/Time: 02/14/2025 1435	Method: HPLC/DAD	Moisture Content (%): 12.1
Analyst: PW	Instrument: Agilent 1100	Water Activity (aw): 0.341 @ 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	0.0446	0.104	-	0.000	0.000
CBCA	ND	ND	0.138	0.323	-	0.000	0.000
CBD	ND	ND	0.314	0.734	-	0.000	0.000
CBDA	ND	ND	0.116	0.270	-	0.000	0.000
CBDV	ND	ND	0.0504	0.118	-	0.000	0.000
CBDVA	ND	ND	0.134	0.314	-	0.000	0.000
CBG	0.0586	0.586	0.204	0.477	-	0.515	0.515
CBGA	1.38	13.8	0.289	0.341	-	12.1	12.1
CBL	ND	ND	0.236	0.550	-	0.000	0.000
CBN	ND	ND	0.108	0.253	-	0.000	0.000
CBNA	ND	ND	0.117	0.273	-	0.000	0.000
CBT	ND	ND	0.170	0.395	-	0.000	0.000
Δ9-THC	0.688	6.88	0.130	0.303	-	6.05	6.05
Δ8-THC	ND	ND	0.203	0.473	-	0.000	0.000
THCA	35.0	350	0.0704	0.165	-	308	308
THCV	ND	ND	0.169	0.394	-	0.000	0.000
THCVA	0.272	2.72	0.0540	0.126	-	2.39	2.39
TOTAL	37.4	374			-	329	329
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	1.26	12.6			-	11.1	11.1
TOTAL CBN	0.000	0.000			-	0.000	0.000
TOTAL THC	31.4	314			-	276	276
TOTAL THCV	0.235	2.35			-	2.07	2.07



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) + 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 1824

Method: GC/MS

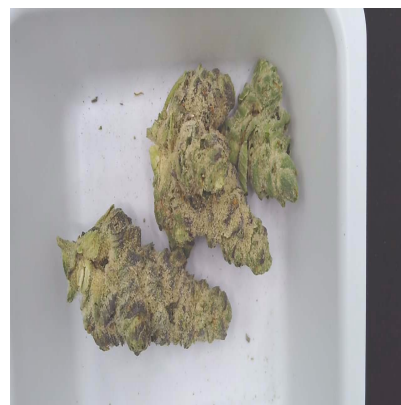
Deviations from SOP:

Analyst: KF

Instrument: Agilent 7890/5975

None

Terpene	Result (µg/g)	Result (%)
α-Bisabolol	630	0.0630
Camphene	439	0.0439
δ-3-Carene	167	0.0167
β-Caryophyllene	5510	0.551
Caryophyllene oxide	<LOQ	-
p-Cymene	138	0.0138
Eucalyptol	82.5	0.00825
Geraniol	589	0.0589
Guaiol	662	0.0662
α-Humulene	1610	0.161
Isopulegol	143	0.0143
d-Limonene	7880	0.788
Linalool	1220	0.122
β-Myrcene	3980	0.398
cis-Nerolidol	ND	-
trans-Nerolidol	549	0.0549
α-Ocimene	169	0.0169
β-Ocimene	529	0.0529
α-Pinene	1740	0.174
β-Pinene	1750	0.175
α-Terpinene	174	0.0174
γ-Terpinene	87.3	0.00873
Terpinolene	144	0.0144
TOTAL	28200	2.82



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): 48.9

"-" Not detected above LOD.

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PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 02/14/2025 1454

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)	-	0.0484	0.388	0.5	Kresoxim-methyl (143390-89-0)	-	0.0484	0.388	0.4
Acephate (30560-19-1)	-	0.0484	0.388	0.4	Malathion (121-75-5)	-	0.0484	0.388	0.2
Acetaminocyl (57960-19-7)	-	0.0484	0.388	2	Metalaxyl (57837-19-1)	-	0.0484	0.388	0.2
Acetamiprid (135410-20-7)	-	0.0484	0.388	0.2	Methiocarb (2032-65-7)	-	0.0484	0.388	0.2
Aldicarb (116-06-3)	-	0.0484	0.388	0.4	Methomyl (16752-77-5)	-	0.0484	0.388	0.4
Azoxystrobin (131860-33-8)	-	0.0484	0.388	0.2	Methyl parathion (298-0-0)	-	0.0484	0.388	0.2
Bifenazate (149877-41-8)	-	0.0484	0.388	0.2	MGK 264 (113-48-4)	-	0.0484	0.388	0.2
Bifenthrin (82657-04-3)	-	0.0484	0.388	0.2	Myclobutanil (88671-89-0)	-	0.0484	0.388	0.2
Boscalid (188425-85-6)	-	0.0484	0.388	0.4	Naled (300-76-5)	-	0.0484	0.388	0.5
Carbaryl (63-25-2)	-	0.0484	0.388	0.2	Oxamyl (23135-22-0)	-	0.0484	0.388	1
Carbofuran (1563-66-2)	-	0.0484	0.388	0.2	Paclobutrazol (76738-62-0)	-	0.0484	0.388	0.4
Chlorantraniliprole (800008-45-7)	-	0.0484	0.388	0.2	Permethrins (52645-53-1)	-	0.0484	0.388	0.2
Chlorfenapyr (122453-73-0)	-	0.0484	0.388	1	Phosmet (732-11-6)	-	0.0484	0.388	0.2
Chlorpyrifos (2921-88-2)	-	0.0484	0.388	0.2	Piperonyl butoxide (51-03-6)	-	0.0484	0.388	2
Clofentezine (74115-24-5)	-	0.0484	0.388	0.2	Prallethrins (2331-36-9)	-	0.0484	0.388	0.2
Cyfluthrin (68359-37-5)	-	0.0484	0.388	1	Propiconazole (60207-90-1))	-	0.0484	0.388	0.4
Cypermethrin (52315-07-8)	-	0.0484	0.388	1	Propoxur (114-26-1)	-	0.0484	0.388	0.2
Daminozide (1596-84-5)	-	0.0484	0.388	1	Pyrethrins (8003-34-7)	-	0.0484	0.388	1
DDVP (62-73-7)	-	0.0484	0.388	0.1	Pyridaben (96489-71-3)	-	0.0484	0.388	0.2
Diazinon (333-41-5)	-	0.0484	0.388	0.2	Spinosad (168316-95-8)	-	0.0484	0.388	0.2
Dimethoate (60-51-5)	-	0.0484	0.388	0.2	Spiromesifen (283594-90-1)	-	0.0484	0.388	0.2
Ethoprophos (13194-48-4)	-	0.0484	0.388	0.2	Spirotetramat (203313-25-1)	-	0.0484	0.388	0.2
Etofenprox (80844-07-1)	-	0.0484	0.388	0.4	Spiroxamine (118134-30-8)	-	0.0484	0.388	0.4
Etoxazole (153233-91-1)	-	0.0484	0.388	0.2	Tebuconazole (80443-41-0)	-	0.0484	0.388	0.4
Fenoxycarb (72490-01-8)	-	0.0484	0.388	0.2	Thiacloprid (111988-49-9)	-	0.0484	0.388	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0484	0.388	0.4	Thiamethoxam (153719-23-4)	-	0.0484	0.388	0.2
Fipronil (120068-37-3)	-	0.0484	0.388	0.4	Trifloxystrobin (141517-21-7)	-	0.0484	0.388	0.2
Flonicamid (158062-67-0)	-	0.0484	0.388	1					
Fludioxinil (131341-86-1)	-	0.0484	0.388	0.4					
Hexythiazox (78587-05-0)	-	0.0484	0.388	1					
Imazalil (35554-44-0)	-	0.0484	0.388	0.2					
Imidacloprid (138261-41-3)	-	0.0484	0.388	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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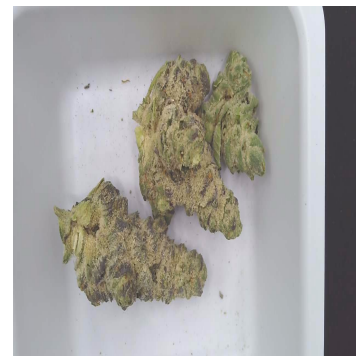
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HEAVY METAL PROFILE (SOP: SOP-ICP-200.6)

Analysis Date/Time: 02/14/2025 2254	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)	-	57.3	90.8	200
Cadmium (Cd)	-	57.3	90.8	200
Lead (Pb)	-	57.3	90.8	500
Mercury (Hg)	-	57.3	90.8	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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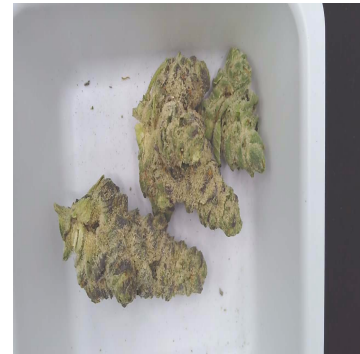
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MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

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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