

SUMMARY OF ANALYSIS (SAMPLE ID: SA40247)

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	M00065C13137160900	Mass: 18g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 02/13/2025
License: ADH 113	License: 00065C	3087H20250109ATS-5	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 (%)

12.0

Water Activity (aw)

0.354 @ 24.5°C

PASS/FAIL

PASS

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

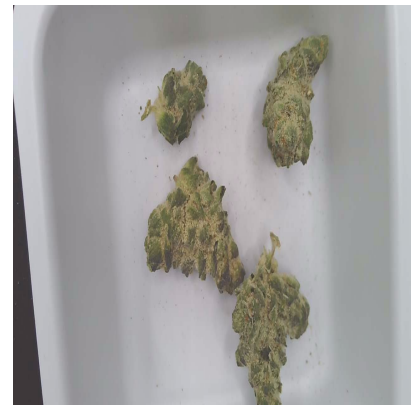
Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

Cannabinoids (Top 3)	(%)	mg/g
THCA	31.6	316
CBGA	1.07	10.7
Δ9-THC	0.624	6.24
TOTAL CBD	0.000	0.000
TOTAL THC	28.3	283
TOTAL CANNABINOIDS	33.8	338

Terpenes (Top 5)	(%)	µg/g
d-Limonene	0.679	6790
β-Caryophyllene	0.568	5680
β-Myrcene	0.304	3040
α-Pinene	0.168	1680
α-Humulene	0.167	1670
TOTAL TERPENES	2.58	25800

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: SA40247)

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

Analysis Date/Time: 02/14/2025 1422
Analyst: PW
Method: HPLC/DAD
Instrument: Agilent 1100
Moisture Content (%): 12.0
Water Activity (aw): 0.354 @ 24.5°C

Cannabinoid	Result (%)	Result (mg/g)	LOD (mg/g)	LOQ (mg/g)	Result (mg/mL)	Per Serving (mg)	Per Unit (mg)
CBC	ND	ND	0.0417	0.0973	-	0.000	0.000
CBCA	0.211	2.11	0.130	0.302	-	1.86	1.86
CBD	ND	ND	0.294	0.687	-	0.000	0.000
CBDV	ND	ND	0.108	0.253	-	0.000	0.000
CBDVA	ND	ND	0.0472	0.110	-	0.000	0.000
CBG	ND	ND	0.126	0.294	-	0.000	0.000
CBGA	0.0533	0.533	0.191	0.446	-	0.469	0.469
CBL	1.07	10.7	0.271	0.319	-	9.39	9.39
CBN	ND	ND	0.221	0.515	-	0.000	0.000
CBNA	ND	ND	0.101	0.237	-	0.000	0.000
CBT	ND	ND	0.109	0.255	-	0.000	0.000
Δ9-THC	ND	ND	0.159	0.370	-	0.000	0.000
Δ8-THC	0.624	6.24	0.121	0.283	-	5.49	5.49
THCA	ND	ND	0.190	0.442	-	0.000	0.000
THCV	31.6	316	0.0659	0.154	-	278	278
THCVA	ND	ND	0.158	0.368	-	0.000	0.000
	0.239	2.39	0.0505	0.117	-	2.10	2.10
TOTAL	33.8	338			-	297	297
TOTAL CBC	0.185	1.85			-	1.63	1.63
TOTAL CBD	0.000	0.000			-	0.000	0.000
TOTAL CBDV	0.000	0.000			-	0.000	0.000
TOTAL CBG	0.990	9.90			-	8.71	8.71
TOTAL CBN	0.000	0.000			-	0.000	0.000
TOTAL THC	28.3	283			-	249	249
TOTAL THCV	0.207	2.07			-	1.82	1.82



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 1802

Method: GC/MS

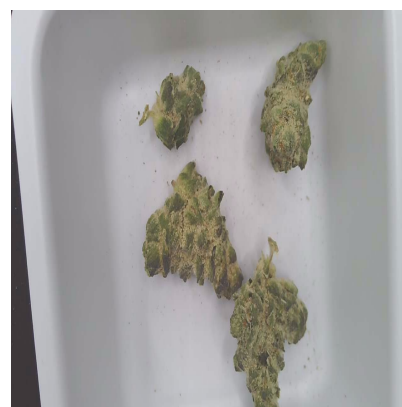
Deviations from SOP:

Analyst: KF

Instrument: Agilent 7890/5975

None

<u>Terpene</u>	<u>Result</u> (µg/g)	<u>Result</u> (%)
α-Bisabolol	563	0.0563
Camphene	407	0.0407
δ-3-Carene	156	0.0156
β-Caryophyllene	5680	0.568
Caryophyllene oxide	<LOQ	-
p-Cymene	127	0.0127
Eucalyptol	ND	-
Geraniol	567	0.0567
Guaiol	668	0.0668
α-Humulene	1670	0.167
Isopulegol	139	0.0139
d-Limonene	6790	0.679
Linalool	1090	0.109
β-Myrcene	3040	0.304
cis-Nerolidol	ND	-
trans-Nerolidol	513	0.0513
α-Ocimene	154	0.0154
β-Ocimene	489	0.0489
α-Pinene	1680	0.168
β-Pinene	1640	0.164
α-Terpinene	163	0.0163
γ-Terpinene	81.0	0.00810
Terpinolene	131	0.0131
TOTAL	25800	2.58



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): 45.7

"-" Not detected above LOD.

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PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 02/14/2025 1438

Analyst: KF

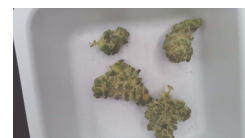
Method: LC/MS/MS

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)	-	0.0454	0.363	0.5	Kresoxim-methyl (143390-89-0)	-	0.0454	0.363	0.4
Acephate (30560-19-1)	-	0.0454	0.363	0.4	Malathion (121-75-5)	-	0.0454	0.363	0.2
Acetaminophen (57960-19-7)	-	0.0454	0.363	2	Metalaxyl (57837-19-1)	-	0.0454	0.363	0.2
Acetamiprid (135410-20-7)	-	0.0454	0.363	0.2	Methiocarb (2032-65-7)	-	0.0454	0.363	0.2
Aldicarb (116-06-3)	-	0.0454	0.363	0.4	Methomyl (16752-77-5)	-	0.0454	0.363	0.4
Azoxystrobin (131860-33-8)	-	0.0454	0.363	0.2	Methyl parathion (298-0-0)	-	0.0454	0.363	0.2
Bifenazate (149877-41-8)	-	0.0454	0.363	0.2	MGK 264 (113-48-4)	-	0.0454	0.363	0.2
Bifenthrin (82657-04-3)	-	0.0454	0.363	0.2	Myclobutanil (88671-89-0)	-	0.0454	0.363	0.2
Boscalid (188425-85-6)	-	0.0454	0.363	0.4	Naled (300-76-5)	-	0.0454	0.363	0.5
Carbaryl (63-25-2)	-	0.0454	0.363	0.2	Oxamyl (23135-22-0)	-	0.0454	0.363	1
Carbofuran (1563-66-2)	-	0.0454	0.363	0.2	Paclobutrazol (76738-62-0)	-	0.0454	0.363	0.4
Chlorantraniliprole (800008-45-7)	-	0.0454	0.363	0.2	Permethrins (52645-53-1)	-	0.0454	0.363	0.2
Chlorfenapyr (122453-73-0)	-	0.0454	0.363	1	Phosmet (732-11-6)	-	0.0454	0.363	0.2
Chlorpyrifos (2921-88-2)	-	0.0454	0.363	0.2	Piperonyl butoxide (51-03-6)	-	0.0454	0.363	2
Clofentezine (74115-24-5)	-	0.0454	0.363	0.2	Prallethrin (2331-36-9)	-	0.0454	0.363	0.2
Cyfluthrin (68359-37-5)	-	0.0454	0.363	1	Propiconazole (60207-90-1)	-	0.0454	0.363	0.4
Cypermethrin (52315-07-8)	-	0.0454	0.363	1	Propoxur (114-26-1)	-	0.0454	0.363	0.2
Daminozide (1596-84-5)	-	0.0454	0.363	1	Pyrethrins (8003-34-7)	-	0.0454	0.363	1
DDVP (62-73-7)	-	0.0454	0.363	0.1	Pyridaben (96489-71-3)	-	0.0454	0.363	0.2
Diazinon (333-41-5)	-	0.0454	0.363	0.2	Spinosad (168316-95-8)	-	0.0454	0.363	0.2
Dimethoate (60-51-5)	-	0.0454	0.363	0.2	Spiromesifen (283594-90-1)	-	0.0454	0.363	0.2
Ethoprophos (13194-48-4)	-	0.0454	0.363	0.2	Spirotetramat (203313-25-1)	-	0.0454	0.363	0.2
Etofenprox (80844-07-1)	-	0.0454	0.363	0.4	Spiroxamine (118134-30-8)	-	0.0454	0.363	0.4
Etoazazole (153233-91-1)	-	0.0454	0.363	0.2	Tebuconazole (80443-41-0)	-	0.0454	0.363	0.4
Fenoxycarb (72490-01-8)	-	0.0454	0.363	0.2	Thiacloprid (111988-49-9)	-	0.0454	0.363	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0454	0.363	0.4	Thiamethoxam (153719-23-4)	-	0.0454	0.363	0.2
Fipronil (120068-37-3)	-	0.0454	0.363	0.4	Trifloxystrobin (141517-21-7)	-	0.0454	0.363	0.2
Flonicamid (158062-67-0)	-	0.0454	0.363	1					
Fludioxinil (131341-86-1)	-	0.0454	0.363	0.4					
Hexythiazox (78587-05-0)	-	0.0454	0.363	1					
Imazalil (35554-44-0)	-	0.0454	0.363	0.2					
Imidacloprid (138261-41-3)	-	0.0454	0.363	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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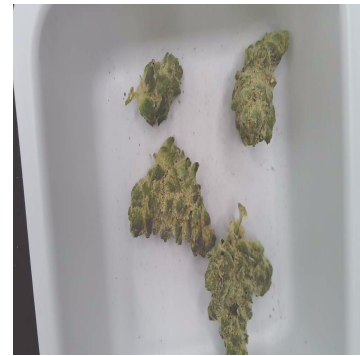
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License: ADH 113	License: 00065C	3087H20250109ATS-5	Date Received: 02/13/2025
Cultivar (Strain) or Sample Description: Animal Tsunami			Date Completed: 02/17/2025

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

Analysis Date/Time: 02/14/2025 2247	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)	-	59.6	94.4	200
Cadmium (Cd)	-	59.6	94.4	200
Lead (Pb)	-	59.6	94.4	500
Mercury (Hg)	-	59.6	94.4	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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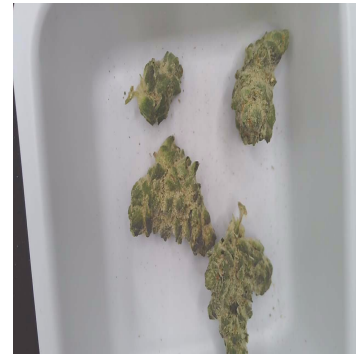
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MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

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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