

SUMMARY OF ANALYSIS (SAMPLE ID: SA40147)

Testing Location:	Customer ID: 2161	Order ID: OR11428	Sample Type: Primary
Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix: Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13131050350	Mass: 23g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 02/05/2025
License: ADH 113	License: 00065C	1085H20241216ATS-1	Date Received: 02/06/2025
Cultivar (Strain) or Sample Description: Animal Tsunami			Date Completed: 02/09/2025

*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 (%)

9.80

Water Activity (aw)

0.447 @ 24.5°C

PASS/FAIL

PASS

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

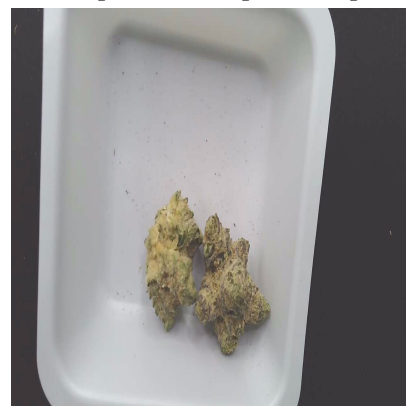
Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

Cannabinoids (Top 3)	(%)	mg/g
THCA	35.3	353
CBGA	2.12	21.2
Δ9-THC	0.782	7.82
TOTAL CBD	0.000	0.000
TOTAL THC	31.7	317
TOTAL CANNABINOIDS	39.0	390

Terpenes (Top 5)	(%)	µg/g
d-Limonene	0.879	8790
β-Caryophyllene	0.641	6410
β-Myrcene	0.367	3670
α-Humulene	0.187	1870
β-Pinene	0.178	1780
TOTAL TERPENES	3.02	30200

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: SA40147)

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

Analysis Date/Time: 02/07/2025 1621

Method: HPLC/DAD

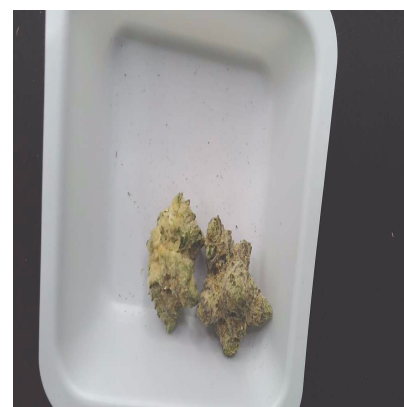
Moisture Content (%): 9.80

Analyst: PW

Instrument: Agilent 1100

Water Activity (aw): 0.447 @ 24.5°C

<u>Cannabinoid</u>	<u>Result (%)</u>	<u>Result (mg/g)</u>	<u>LOD (mg/g)</u>	<u>LOQ (mg/g)</u>	<u>Result (mg/mL)</u>	<u>Per Serving (mg)</u>	<u>Per Unit (mg)</u>
CBC	ND	ND	0.0391	0.0913	-	0.000	0.000
CBCA	0.522	5.22	0.121	0.283	-	4.71	4.71
CBD	ND	ND	0.276	0.644	-	0.000	0.000
CBDV	DET	DET	0.102	0.237	-	0.000	0.000
CBDVA	ND	ND	0.0443	0.103	-	0.000	0.000
CBDVA	ND	ND	0.118	0.276	-	0.000	0.000
CBG	0.136	1.36	0.179	0.418	-	1.23	1.23
CBGA	2.12	21.2	0.254	0.300	-	19.1	19.1
CBL	ND	ND	0.207	0.483	-	0.000	0.000
CBN	ND	ND	0.0951	0.222	-	0.000	0.000
CBNA	ND	ND	0.103	0.239	-	0.000	0.000
CBT	ND	ND	0.149	0.347	-	0.000	0.000
Δ9-THC	0.782	7.82	0.114	0.266	-	7.05	7.05
Δ8-THC	ND	ND	0.178	0.415	-	0.000	0.000
THCA	35.3	353	0.0618	0.144	-	318	318
THCV	ND	ND	0.148	0.346	-	0.000	0.000
THCVA	0.257	2.57	0.0474	0.110	-	2.32	2.32
TOTAL	39.0	390			-	352	352
TOTAL CBC	0.458	4.58			-	4.13	4.13
TOTAL CBD	0.000	0.000			-	0.000	0.000
TOTAL CBDV	0.000	0.000			-	0.000	0.000
TOTAL CBG	2.00	20.0			-	18.0	18.0
TOTAL CBN	0.000	0.000			-	0.000	0.000
TOTAL THC	31.7	317			-	286	286
TOTAL THCV	0.223	2.23			-	2.01	2.01



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: 02/07/2025 1834

Method: GC/MS

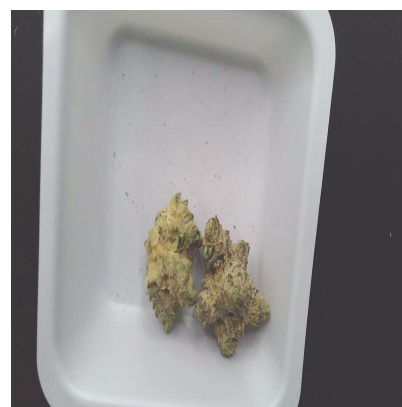
Deviations from SOP:

Analyst: KF

Instrument: Agilent 7890/5975

None

Terpene	Result (µg/g)	Result (%)	
α-Bisabolol	767	0.0767	
Camphene	413	0.0413	
δ-3-Carene	147	0.0147	
β-Caryophyllene	6410	0.641	
Caryophyllene oxide	ND	-	
p-Cymene	127	0.0127	
Eucalyptol	72.4	0.00724	
Geraniol	537	0.0537	
Guaiol	710	0.0710	
α-Humulene	1870	0.187	
Isopulegol	151	0.0151	
d-Limonene	8790	0.879	
Linalool	1430	0.143	
β-Myrcene	3670	0.367	
cis-Nerolidol	ND	-	
trans-Nerolidol	642	0.0642	
α-Ocimene	159	0.0159	
β-Ocimene	406	0.0406	
α-Pinene	1720	0.172	
β-Pinene	1780	0.178	
α-Terpinene	154	0.0154	
γ-Terpinene	77.3	0.00773	
Terpinolene	142	0.0142	
TOTAL	30200	3.02	



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): 42.9

"-" Not detected above LOD.

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PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 02/07/2025 1623

Analyst: KF

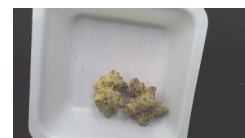
Method: LC/MS/MS

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)	-	0.0433	0.347	0.5	Kresoxim-methyl (143390-89-0)	-	0.0433	0.347	0.4
Acephate (30560-19-1)	-	0.0433	0.347	0.4	Malathion (121-75-5)	-	0.0433	0.347	0.2
Acetaminocyl (57960-19-7)	-	0.0433	0.347	2	Metalaxyl (57837-19-1)	-	0.0433	0.347	0.2
Acetamiprid (135410-20-7)	-	0.0433	0.347	0.2	Methiocarb (2032-65-7)	-	0.0433	0.347	0.2
Aldicarb (116-06-3)	-	0.0433	0.347	0.4	Methomyl (16752-77-5)	-	0.0433	0.347	0.4
Azoxystrobin (131860-33-8)	-	0.0433	0.347	0.2	Methyl parathion (298-0-0)	-	0.0433	0.347	0.2
Bifenazate (149877-41-8)	-	0.0433	0.347	0.2	MGK 264 (113-48-4)	-	0.0433	0.347	0.2
Bifenthrin (82657-04-3)	-	0.0433	0.347	0.2	Myclobutanil (88671-89-0)	-	0.0433	0.347	0.2
Boscalid (188425-85-6)	-	0.0433	0.347	0.4	Naled (300-76-5)	-	0.0433	0.347	0.5
Carbaryl (63-25-2)	-	0.0433	0.347	0.2	Oxamyl (23135-22-0)	-	0.0433	0.347	1
Carbofuran (1563-66-2)	-	0.0433	0.347	0.2	Paclobutrazol (76738-62-0)	-	0.0433	0.347	0.4
Chlorantraniliprole (800008-45-7)	-	0.0433	0.347	0.2	Permethrins (52645-53-1)	-	0.0433	0.347	0.2
Chlorfenapyr (122453-73-0)	-	0.0433	0.347	1	Phosmet (732-11-6)	-	0.0433	0.347	0.2
Chlorpyrifos (2921-88-2)	-	0.0433	0.347	0.2	Piperonyl butoxide (51-03-6)	-	0.0433	0.347	2
Clofentezine (74115-24-5)	-	0.0433	0.347	0.2	Prallethrins (2331-36-9)	-	0.0433	0.347	0.2
Cyfluthrin (68359-37-5)	-	0.0433	0.347	1	Propiconazole (60207-90-1)	-	0.0433	0.347	0.4
Cypermethrin (52315-07-8)	-	0.0433	0.347	1	Propoxur (114-26-1)	-	0.0433	0.347	0.2
Daminozide (1596-84-5)	-	0.0433	0.347	1	Pyrethrins (8003-34-7)	-	0.0433	0.347	1
DDVP (62-73-7)	-	0.0433	0.347	0.1	Pyridaben (96489-71-3)	-	0.0433	0.347	0.2
Diazinon (333-41-5)	-	0.0433	0.347	0.2	Spinosad (168316-95-8)	-	0.0433	0.347	0.2
Dimethoate (60-51-5)	-	0.0433	0.347	0.2	Spiromesifen (283594-90-1)	-	0.0433	0.347	0.2
Ethoprophos (13194-48-4)	-	0.0433	0.347	0.2	Spirotetramat (203313-25-1)	-	0.0433	0.347	0.2
Etofenprox (80844-07-1)	-	0.0433	0.347	0.4	Spiroxamine (118134-30-8)	-	0.0433	0.347	0.4
Etoazazole (153233-91-1)	-	0.0433	0.347	0.2	Tebuconazole (80443-41-0)	-	0.0433	0.347	0.4
Fenoxycarb (72490-01-8)	-	0.0433	0.347	0.2	Thiacloprid (111988-49-9)	-	0.0433	0.347	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0433	0.347	0.4	Thiamethoxam (153719-23-4)	-	0.0433	0.347	0.2
Fipronil (120068-37-3)	-	0.0433	0.347	0.4	Trifloxystrobin (141517-21-7)	-	0.0433	0.347	0.2
Flonicamid (158062-67-0)	-	0.0433	0.347	1					
Fludioxinil (131341-86-1)	-	0.0433	0.347	0.4					
Hexythiazox (78587-05-0)	-	0.0433	0.347	1					
Imazalil (35554-44-0)	-	0.0433	0.347	0.2					
Imidacloprid (138261-41-3)	-	0.0433	0.347	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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Cultivar (Strain) or Sample Description: Animal Tsunami			Date Completed: 02/09/2025

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

Analysis Date/Time: 02/07/2025 1808

Method: ICP/MS

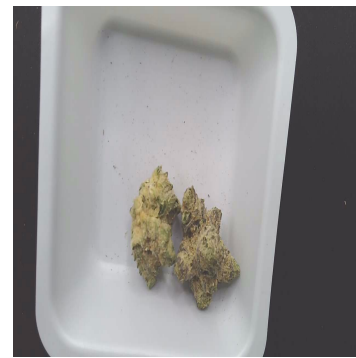
Deviations from SOP:

Instrument: Agilent 7500ce

None

Analyst: KF

Heavy Metal	Result (µg/kg)	LOD (µg/kg)	LOQ (µg/kg)	Action Level (µg/kg)
Arsenic (As)	-	58.1	92.0	200
Cadmium (Cd)	-	58.1	92.0	200
Lead (Pb)	-	58.1	92.0	500
Mercury (Hg)	-	58.1	92.0	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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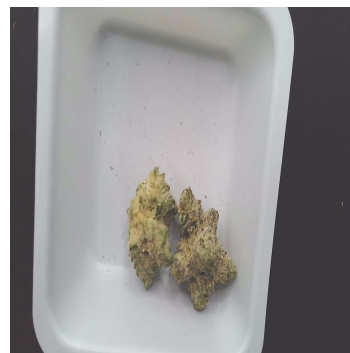
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MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 02/07/2025 1147	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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