

SUMMARY OF ANALYSIS (SAMPLE ID: SA40144)

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	M00065C13131574186	Mass: 23g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 02/05/2025
License: ADH 113	License: 00065C	1085H20241216ATS-4	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 (%)

10.4

Water Activity (aw)

0.387 @ 24.4°C

PASS/FAIL

PASS

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

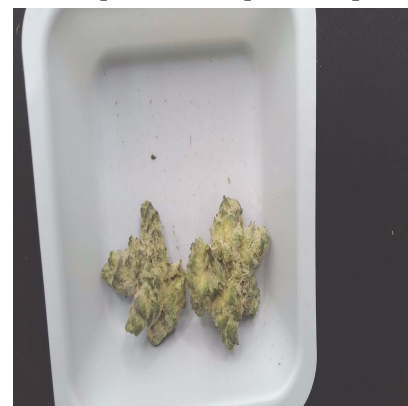
Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

Cannabinoids (Top 3)	(%)	mg/g
THCA	32.7	327
CBGA	1.52	15.2
Δ9-THC	0.819	8.19
TOTAL CBD	0.000	0.000
TOTAL THC	29.5	295
TOTAL CANNABINOIDS	35.9	359

Terpenes (Top 5)	(%)	µg/g
d-Limonene	0.952	9520
β-Caryophyllene	0.684	6840
β-Myrcene	0.319	3190
α-Humulene	0.200	2000
β-Pinene	0.188	1880
TOTAL TERPENES	3.13	31300

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



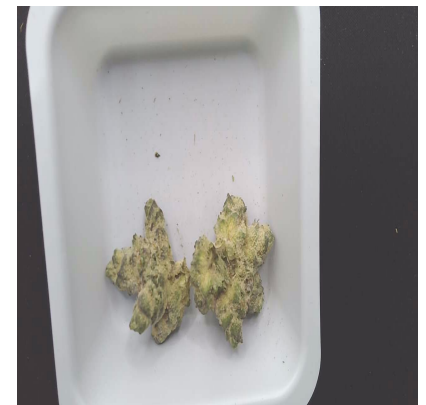
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CANNABINOID (POTENCY) PROFILE (SOP: SOP-CANN-001)

Analysis Date/Time: 02/07/2025 1542 **Method:** HPLC/DAD **Moisture Content (%):** 10.4
Analyst: PW **Instrument:** Agilent 1100 **Water Activity (aw):** 0.387 @ 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	0.0409	0.0954	-	0.000	0.000
CBCA	0.569	5.69	0.127	0.296	-	5.10	5.10
CBD	ND	ND	0.288	0.673	-	0.000	0.000
CBDV	ND	ND	0.106	0.248	-	0.000	0.000
CBDVA	ND	ND	0.0462	0.108	-	0.000	0.000
CBG	ND	ND	0.123	0.288	-	0.000	0.000
CBGA	0.0508	0.508	0.187	0.437	-	0.455	0.455
CBGB	1.52	15.2	0.265	0.313	-	13.6	13.6
CBL	ND	ND	0.216	0.505	-	0.000	0.000
CBN	ND	ND	0.0993	0.232	-	0.000	0.000
CBNA	ND	ND	0.107	0.250	-	0.000	0.000
CBT	ND	ND	0.156	0.363	-	0.000	0.000
Δ9-THC	0.819	8.19	0.119	0.277	-	7.34	7.34
Δ8-THC	ND	ND	0.186	0.433	-	0.000	0.000
THCA	32.7	327	0.0645	0.151	-	293	293
THCV	ND	ND	0.155	0.361	-	0.000	0.000
THCVA	0.279	2.79	0.0495	0.115	-	2.50	2.50
TOTAL	35.9	359			-	322	322
TOTAL CBC	0.499	4.99			-	4.47	4.47
TOTAL CBD	0.000	0.000			-	0.000	0.000
TOTAL CBDV	0.000	0.000			-	0.000	0.000
TOTAL CBG	1.38	13.8			-	12.4	12.4
TOTAL CBN	0.000	0.000			-	0.000	0.000
TOTAL THC	29.5	295			-	264	264
TOTAL THCV	0.242	2.42			-	2.17	2.17



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: 02/07/2025 1726

Method: GC/MS

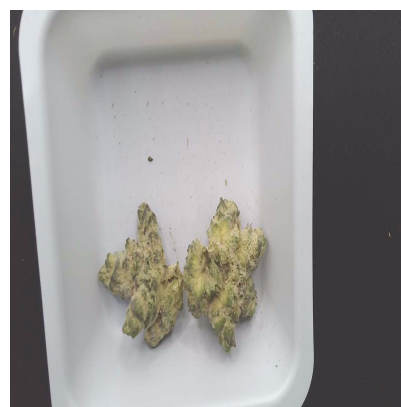
Deviations from SOP:

Analyst: KF

Instrument: Agilent 7890/5975

None

Terpene	Result (µg/g)	Result (%)
α-Bisabolol	913	0.0913
Camphene	435	0.0435
δ-3-Carene	153	0.0153
β-Caryophyllene	6840	0.684
Caryophyllene oxide	<LOQ	-
p-Cymene	133	0.0133
Eucalyptol	77.0	0.00770
Geraniol	591	0.0591
Guaiol	718	0.0718
α-Humulene	2000	0.200
Isopulegol	166	0.0166
d-Limonene	9520	0.952
Linalool	1330	0.133
β-Myrcene	3190	0.319
cis-Nerolidol	ND	-
trans-Nerolidol	627	0.0627
α-Ocimene	169	0.0169
β-Ocimene	412	0.0412
α-Pinene	1750	0.175
β-Pinene	1880	0.188
α-Terpinene	160	0.0160
γ-Terpinene	80.2	0.00802
Terpinolene	147	0.0147
TOTAL	31300	3.13



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): 44.8

"-" Not detected above LOD.

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PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 02/07/2025 1537

Method: LC/MS/MS

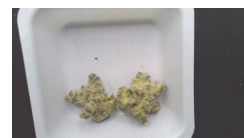
Deviations from SOP:

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)	-	0.0445	0.356	0.5	Kresoxim-methyl (143390-89-0)	-	0.0445	0.356	0.4
Acephate (30560-19-1)	-	0.0445	0.356	0.4	Malathion (121-75-5)	-	0.0445	0.356	0.2
Acetaminophen (57960-19-7)	-	0.0445	0.356	2	Metalaxyl (57837-19-1)	-	0.0445	0.356	0.2
Acetamiprid (135410-20-7)	-	0.0445	0.356	0.2	Methiocarb (2032-65-7)	-	0.0445	0.356	0.2
Aldicarb (116-06-3)	-	0.0445	0.356	0.4	Methomyl (16752-77-5)	-	0.0445	0.356	0.4
Azoxystrobin (131860-33-8)	-	0.0445	0.356	0.2	Methyl parathion (298-0-0)	-	0.0445	0.356	0.2
Bifenazate (149877-41-8)	-	0.0445	0.356	0.2	MGK 264 (113-48-4)	-	0.0445	0.356	0.2
Bifenthrin (82657-04-3)	-	0.0445	0.356	0.2	Myclobutanil (88671-89-0)	-	0.0445	0.356	0.2
Boscalid (188425-85-6)	-	0.0445	0.356	0.4	Naled (300-76-5)	-	0.0445	0.356	0.5
Carbaryl (63-25-2)	-	0.0445	0.356	0.2	Oxamyl (23135-22-0)	-	0.0445	0.356	1
Carbofuran (1563-66-2)	-	0.0445	0.356	0.2	Paclobutrazol (76738-62-0)	-	0.0445	0.356	0.4
Chlorantraniliprole (800008-45-7)	-	0.0445	0.356	0.2	Permethrins (52645-53-1)	-	0.0445	0.356	0.2
Chlorfenapyr (122453-73-0)	-	0.0445	0.356	1	Phosmet (732-11-6)	-	0.0445	0.356	0.2
Chlorpyrifos (2921-88-2)	-	0.0445	0.356	0.2	Piperonyl butoxide (51-03-6)	-	0.0445	0.356	2
Clofentezine (74115-24-5)	-	0.0445	0.356	0.2	Prallethrin (2331-36-9)	-	0.0445	0.356	0.2
Cyfluthrin (68359-37-5)	-	0.0445	0.356	1	Propiconazole (60207-90-1)	-	0.0445	0.356	0.4
Cypermethrin (52315-07-8)	-	0.0445	0.356	1	Propoxur (114-26-1)	-	0.0445	0.356	0.2
Daminozide (1596-84-5)	-	0.0445	0.356	1	Pyrethrins (8003-34-7)	-	0.0445	0.356	1
DDVP (62-73-7)	-	0.0445	0.356	0.1	Pyridaben (96489-71-3)	-	0.0445	0.356	0.2
Diazinon (333-41-5)	-	0.0445	0.356	0.2	Spinosad (168316-95-8)	-	0.0445	0.356	0.2
Dimethoate (60-51-5)	-	0.0445	0.356	0.2	Spiromesifen (283594-90-1)	-	0.0445	0.356	0.2
Ethoprophos (13194-48-4)	-	0.0445	0.356	0.2	Spirotetramat (203313-25-1)	-	0.0445	0.356	0.2
Etofenprox (80844-07-1)	-	0.0445	0.356	0.4	Spiroxamine (118134-30-8)	-	0.0445	0.356	0.4
Etoxazole (153233-91-1)	-	0.0445	0.356	0.2	Tebuconazole (80443-41-0)	-	0.0445	0.356	0.4
Fenoxycarb (72490-01-8)	-	0.0445	0.356	0.2	Thiacloprid (111988-49-9)	-	0.0445	0.356	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0445	0.356	0.4	Thiamethoxam (153719-23-4)	-	0.0445	0.356	0.2
Fipronil (120068-37-3)	-	0.0445	0.356	0.4	Trifloxystrobin (141517-21-7)	-	0.0445	0.356	0.2
Flonicamid (158062-67-0)	-	0.0445	0.356	1					
Fludioxinil (131341-86-1)	-	0.0445	0.356	0.4					
Hexythiazox (78587-05-0)	-	0.0445	0.356	1					
Imazalil (35554-44-0)	-	0.0445	0.356	0.2					
Imidacloprid (138261-41-3)	-	0.0445	0.356	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: 02/07/2025 1752	Method: ICP/MS	Deviations from SOP:
	Instrument: Agilent 7500ce	None
Analyst: KF		

<u>Heavy Metal</u>	<u>Result</u> (µg/kg)	<u>LOD</u> (µg/kg)	<u>LOQ</u> (µg/kg)	<u>Action Level</u> (µg/kg)
Arsenic (As)	-	59.4	94.1	200
Cadmium (Cd)	-	59.4	94.1	200
Lead (Pb)	-	59.4	94.1	500
Mercury (Hg)	-	59.4	94.1	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

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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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