

SUMMARY OF ANALYSIS (SAMPLE ID: SA40246)

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	M00065C13130121058	Mass: 10g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 02/13/2025
License: ADH 113	License: 00065C	3087H20250109ATS-6	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 (%)

11.7

Water Activity (aw)

0.317 @ 24.4°C

PASS/FAIL

PASS

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

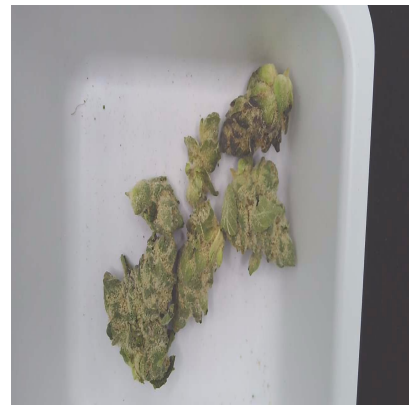
Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

<u>Cannabinoids (Top 3)</u>	<u>(%)</u>	<u>mg/g</u>
THCA	33.2	332
CBGA	1.17	11.7
Δ9-THC	0.593	5.93
TOTAL CBD	0.000	0.000
TOTAL THC	29.7	297
TOTAL CANNABINOIDS	35.3	353

<u>Terpenes (Top 5)</u>	<u>(%)</u>	<u>µg/g</u>
d-Limonene	0.735	7350
β-Caryophyllene	0.517	5170
β-Myrcene	0.313	3130
β-Pinene	0.176	1760
α-Pinene	0.171	1710
TOTAL TERPENES	2.59	25900

<u>Contaminants</u>	<u>PASS/FAIL</u>
Heavy Metals:	PASS
Microbiology:	PASS
Pesticides:	PASS

Sample Picture Upon Receipt



Scan the QR code to verify results.

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Felling Analytical Services and Technology (F.A.S.T.), LLC

Kyle W. Felling
Laboratory Director

www.FASTLaboratories.com



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

Analysis Date/Time: 02/14/2025 1409 **Method:** HPLC/DAD **Moisture Content (%):** 11.7
Analyst: PW **Instrument:** Agilent 1100 **Water Activity (aw):** 0.317 @ 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	0.0414	0.0965	-	0.000	0.000
CBCA	ND	ND	0.128	0.300	-	0.000	0.000
CBD	ND	ND	0.292	0.681	-	0.000	0.000
CBDV	ND	ND	0.107	0.251	-	0.000	0.000
CBDVA	ND	ND	0.0468	0.109	-	0.000	0.000
CBG	ND	ND	0.125	0.291	-	0.000	0.000
CBGA	0.139	1.39	0.189	0.442	-	1.23	1.23
CBL	1.17	11.7	0.269	0.317	-	10.3	10.3
CBN	ND	ND	0.219	0.511	-	0.000	0.000
CBNA	ND	ND	0.101	0.235	-	0.000	0.000
CBT	ND	ND	0.108	0.253	-	0.000	0.000
Δ9-THC	ND	ND	0.157	0.367	-	0.000	0.000
Δ8-THC	0.593	5.93	0.120	0.281	-	5.24	5.24
THCA	ND	ND	0.188	0.439	-	0.000	0.000
THCV	33.2	332	0.0653	0.153	-	293	293
THCVA	ND	ND	0.157	0.365	-	0.000	0.000
	0.256	2.56	0.0501	0.116	-	2.26	2.26
TOTAL	35.3	353			-	312	312
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	1.17	11.7			-	10.3	10.3
TOTAL CBN	0.000	0.000			-	0.000	0.000
TOTAL THC	29.7	297			-	262	262
TOTAL THCV	0.222	2.22			-	1.96	1.96



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, Ph.D.
 Laboratory Director



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TERPENOID PROFILE

Analysis Date/Time: 02/14/2025 1739

Method: GC/MS

Deviations from SOP:

Analyst: KF

Instrument: Agilent 7890/5975

None

Terpene	Result (µg/g)	Result (%)
α-Bisabolol	570	0.0570
Camphene	424	0.0424
δ-3-Carene	155	0.0155
β-Caryophyllene	5170	0.517
Caryophyllene oxide	<LOQ	-
p-Cymene	128	0.0128
Eucalyptol	78.5	0.00785
Geraniol	565	0.0565
Guaiol	624	0.0624
α-Humulene	1470	0.147
Isopulegol	150	0.0150
d-Limonene	7350	0.735
Linalool	1140	0.114
β-Myrcene	3130	0.313
cis-Nerolidol	ND	-
trans-Nerolidol	495	0.0495
α-Ocimene	154	0.0154
β-Ocimene	446	0.0446
α-Pinene	1710	0.171
β-Pinene	1760	0.176
α-Terpinene	162	0.0162
γ-Terpinene	81.1	0.00811
Terpinolene	133	0.0133
TOTAL	25900	2.59



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): 45.4

"-" Not detected above LOD.

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PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 02/14/2025 1422

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)	-	0.0449	0.360	0.5	Kresoxim-methyl (143390-89-0)	-	0.0449	0.360	0.4
Acephate (30560-19-1)	-	0.0449	0.360	0.4	Malathion (121-75-5)	-	0.0449	0.360	0.2
Acetaminophen (57960-19-7)	-	0.0449	0.360	2	Metalaxyl (57837-19-1)	-	0.0449	0.360	0.2
Acetamiprid (135410-20-7)	-	0.0449	0.360	0.2	Methiocarb (2032-65-7)	-	0.0449	0.360	0.2
Aldicarb (116-06-3)	-	0.0449	0.360	0.4	Methomyl (16752-77-5)	-	0.0449	0.360	0.4
Azoxystrobin (131860-33-8)	-	0.0449	0.360	0.2	Methyl parathion (298-0-0)	-	0.0449	0.360	0.2
Bifenazate (149877-41-8)	-	0.0449	0.360	0.2	MGK 264 (113-48-4)	-	0.0449	0.360	0.2
Bifenthrin (82657-04-3)	-	0.0449	0.360	0.2	Myclobutanil (88671-89-0)	-	0.0449	0.360	0.2
Boscalid (188425-85-6)	-	0.0449	0.360	0.4	Naled (300-76-5)	-	0.0449	0.360	0.5
Carbaryl (63-25-2)	-	0.0449	0.360	0.2	Oxamyl (23135-22-0)	-	0.0449	0.360	1
Carbofuran (1563-66-2)	-	0.0449	0.360	0.2	Paclobutrazol (76738-62-0)	-	0.0449	0.360	0.4
Chlorantraniliprole (800008-45-7)	-	0.0449	0.360	0.2	Permethrins (52645-53-1)	-	0.0449	0.360	0.2
Chlorfenapyr (122453-73-0)	-	0.0449	0.360	1	Phosmet (732-11-6)	-	0.0449	0.360	0.2
Chlorpyrifos (2921-88-2)	-	0.0449	0.360	0.2	Piperonyl butoxide (51-03-6)	-	0.0449	0.360	2
Clofentezine (74115-24-5)	-	0.0449	0.360	0.2	Prallethrin (2331-36-9)	-	0.0449	0.360	0.2
Cyfluthrin (68359-37-5)	-	0.0449	0.360	1	Propiconazole (60207-90-1))	-	0.0449	0.360	0.4
Cypermethrin (52315-07-8)	-	0.0449	0.360	1	Propoxur (114-26-1)	-	0.0449	0.360	0.2
Daminozide (1596-84-5)	-	0.0449	0.360	1	Pyrethrins (8003-34-7)	-	0.0449	0.360	1
DDVP (62-73-7)	-	0.0449	0.360	0.1	Pyridaben (96489-71-3)	-	0.0449	0.360	0.2
Diazinon (333-41-5)	-	0.0449	0.360	0.2	Spinosad (168316-95-8)	-	0.0449	0.360	0.2
Dimethoate (60-51-5)	-	0.0449	0.360	0.2	Spiromesifen (283594-90-1)	-	0.0449	0.360	0.2
Ethoprophos (13194-48-4)	-	0.0449	0.360	0.2	Spirotetramat (203313-25-1)	-	0.0449	0.360	0.2
Etofenprox (80844-07-1)	-	0.0449	0.360	0.4	Spiroxamine (118134-30-8)	-	0.0449	0.360	0.4
Etoxazole (153233-91-1)	-	0.0449	0.360	0.2	Tebuconazole (80443-41-0)	-	0.0449	0.360	0.4
Fenoxycarb (72490-01-8)	-	0.0449	0.360	0.2	Thiacloprid (111988-49-9)	-	0.0449	0.360	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0449	0.360	0.4	Thiamethoxam (153719-23-4)	-	0.0449	0.360	0.2
Fipronil (120068-37-3)	-	0.0449	0.360	0.4	Trifloxystrobin (141517-21-7)	-	0.0449	0.360	0.2
Flonicamid (158062-67-0)	-	0.0449	0.360	1					
Fludioxinil (131341-86-1)	-	0.0449	0.360	0.4					
Hexythiazox (78587-05-0)	-	0.0449	0.360	1					
Imazalil (35554-44-0)	-	0.0449	0.360	0.2					
Imidacloprid (138261-41-3)	-	0.0449	0.360	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 2241	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)	-	58.8	93.1	200
Cadmium (Cd)	-	58.8	93.1	200
Lead (Pb)	-	58.8	93.1	500
Mercury (Hg)	-	58.8	93.1	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

"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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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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