

**SUMMARY OF ANALYSIS (SAMPLE ID: SA40668)**

<b>Testing Location:</b>	<b>Customer ID:</b> 2161	<b>Order ID:</b> OR11522	<b>Sample Type:</b> Primary
Arkansas	River Valley Relief Cultivation	<b>Lot Number:</b>	<b>Matrix:</b> Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13133813814	<b>Mass:</b> 22g
Greenbrier, AR 72058	Fort Smith, AR 72903	<b>Production Run:</b>	<b>Date Collected:</b> 03/31/2025
License: ADH 113	License: 00065C	6090H20250210SDO-4	<b>Date Received:</b> 03/31/2025
<b>Cultivar (Strain) or Sample Description:</b> Sourdough			<b>Date Completed:</b> 04/01/2025

\*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 (%)**

10.9

**Water Activity (aw)**

0.359 @ 24.0°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.

<b>Cannabinoids (Top 3)</b>	<b>(%)</b>	<b>mg/g</b>
THCA	26.9	269
CBGA	1.06	10.6
CBCA	0.649	6.49
TOTAL CBD	0.000	0.000
TOTAL THC	24.1	241
TOTAL CANNABINOIDS	29.5	295

<b>Terpenes (Top 5)</b>	<b>(%)</b>	<b>µg/g</b>
β-Caryophyllene	1.07	10700
d-Limonene	0.621	6210
α-Humulene	0.451	4510
Linalool	0.222	2220
β-Myrcene	0.148	1480
TOTAL TERPENES	3.04	30400

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

**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: SA40668)**

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

**Analysis Date/Time:** 04/01/2025 1256

**Method:** HPLC/DAD

**Moisture Content (%):** 10.9

**Analyst:** PW

**Instrument:** Agilent 1100

**Water Activity (aw):** 0.359 @ 24.0°C

<b>Cannabinoid</b>	<b>Result (%)</b>	<b>Result (mg/g)</b>	<b>LOD (mg/g)</b>	<b>LOQ (mg/g)</b>	<b>Result (mg/mL)</b>	<b>Per Serving (mg)</b>	<b>Per Unit (mg)</b>
CBC	ND	ND	0.0393	0.0916	-	0.000	0.000
CBCA	0.649	6.49	0.122	0.284	-	5.78	5.78
CBD	ND	ND	0.277	0.646	-	0.000	0.000
CBDV	DET	DET	0.102	0.238	-	0.000	0.000
CBDVA	ND	ND	0.118	0.276	-	0.000	0.000
CBG	0.204	2.04	0.180	0.420	-	1.82	1.82
CBGA	1.06	10.6	0.255	0.301	-	9.48	9.48
CBL	ND	ND	0.208	0.485	-	0.000	0.000
CBN	ND	ND	0.0954	0.223	-	0.000	0.000
CBNA	ND	ND	0.103	0.240	-	0.000	0.000
Δ9-THC	0.548	5.48	0.114	0.266	-	4.88	4.88
Δ8-THC	ND	ND	0.178	0.416	-	0.000	0.000
THCA	26.9	269	0.0620	0.145	-	240	240
THCV	ND	ND	0.149	0.347	-	0.000	0.000
THCVA	0.0842	0.842	0.0475	0.111	-	0.750	0.750
<b>TOTAL</b>	<b>29.5</b>	<b>295</b>			-	<b>263</b>	<b>263</b>
<b>TOTAL CBC</b>	<b>0.569</b>	<b>5.69</b>			-	<b>5.07</b>	<b>5.07</b>
<b>TOTAL CBD</b>	<b>0.000</b>	<b>0.000</b>			-	<b>0.000</b>	<b>0.000</b>
<b>TOTAL CBDV</b>	<b>0.000</b>	<b>0.000</b>			-	<b>0.000</b>	<b>0.000</b>
<b>TOTAL CBG</b>	<b>1.13</b>	<b>11.3</b>			-	<b>10.1</b>	<b>10.1</b>
<b>TOTAL CBN</b>	<b>0.000</b>	<b>0.000</b>			-	<b>0.000</b>	<b>0.000</b>
<b>TOTAL THC</b>	<b>24.1</b>	<b>241</b>			-	<b>215</b>	<b>215</b>
<b>TOTAL THCV</b>	<b>0.0730</b>	<b>0.730</b>			-	<b>0.650</b>	<b>0.650</b>



**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.  
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### TERPENOID PROFILE

**Analysis Date/Time:** 04/01/2025 1257

**Analyst:** KF

**Method:** GC/MS

**Instrument:** Agilent 7890/5975

**Deviations from SOP:**

None

Terpene	Result (µg/g)	Result (%)	
α-Bisabolol	507	0.0507	
Camphene	210	0.0210	
δ-3-Carene	ND	-	
β-Caryophyllene	10700	1.07	
Caryophyllene oxide	164	0.0164	
p-Cymene	<LOQ	-	
Eucalyptol	ND	-	
Geraniol	48.1	0.00481	
Guaiol	<LOQ	-	
α-Humulene	4510	0.451	
Isopulegol	ND	-	
d-Limonene	6210	0.621	
Linalool	2220	0.222	
β-Myrcene	1480	0.148	
cis-Nerolidol	ND	-	
trans-Nerolidol	1010	0.101	
α-Ocimene	70.3	0.00703	
β-Ocimene	390	0.0390	
α-Pinene	1310	0.131	
β-Pinene	1410	0.141	
α-Terpinene	ND	-	
γ-Terpinene	ND	-	
Terpinolene	82.4	0.00824	
<b>TOTAL</b>	<b>30400</b>	<b>3.04</b>	



**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):** 43.0

"-" Not detected above LOD.

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### PESTICIDES PROFILE (SOP: SOP-PEST-001)

**Analysis Date/Time:** 04/01/2025 1335

**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)	-	0.0428	0.343	0.5	Kresoxim-methyl (143390-89-0)	-	0.0428	0.343	0.4
Acephate (30560-19-1)	-	0.0428	0.343	0.4	Malathion (121-75-5)	-	0.0428	0.343	0.2
Acetaminophen (57960-19-7)	-	0.0428	0.343	2	Metalaxyl (57837-19-1)	-	0.0428	0.343	0.2
Acetamiprid (135410-20-7)	-	0.0428	0.343	0.2	Methiocarb (2032-65-7)	-	0.0428	0.343	0.2
Aldicarb (116-06-3)	-	0.0428	0.343	0.4	Methomyl (16752-77-5)	-	0.0428	0.343	0.4
Azoxystrobin (131860-33-8)	-	0.0428	0.343	0.2	Methyl parathion (298-0-0)	-	0.0428	0.343	0.2
Bifenazate (149877-41-8)	-	0.0428	0.343	0.2	MGK 264 (113-48-4)	-	0.0428	0.343	0.2
Bifenthrin (82657-04-3)	-	0.0428	0.343	0.2	Myclobutanil (88671-89-0)	-	0.0428	0.343	0.2
Boscalid (188425-85-6)	-	0.0428	0.343	0.4	Naled (300-76-5)	-	0.0428	0.343	0.5
Carbaryl (63-25-2)	-	0.0428	0.343	0.2	Oxamyl (23135-22-0)	-	0.0428	0.343	1
Carbofuran (1563-66-2)	-	0.0428	0.343	0.2	Paclobutrazol (76738-62-0)	-	0.0428	0.343	0.4
Chlorantraniliprole (800008-45-7)	-	0.0428	0.343	0.2	Permethrins (52645-53-1)	-	0.0428	0.343	0.2
Chlorfenapyr (122453-73-0)	-	0.0428	0.343	1	Phosmet (732-11-6)	-	0.0428	0.343	0.2
Chlorpyrifos (2921-88-2)	-	0.0428	0.343	0.2	Piperonyl butoxide (51-03-6)	-	0.0428	0.343	2
Clofentezine (74115-24-5)	-	0.0428	0.343	0.2	Prallethrin (2331-36-9)	-	0.0428	0.343	0.2
Cyfluthrin (68359-37-5)	-	0.0428	0.343	1	Propiconazole (60207-90-1)	-	0.0428	0.343	0.4
Cypermethrin (52315-07-8)	-	0.0428	0.343	1	Propoxur (114-26-1)	-	0.0428	0.343	0.2
Daminozide (1596-84-5)	-	0.0428	0.343	1	Pyrethrins (8003-34-7)	-	0.0428	0.343	1
DDVP (62-73-7)	-	0.0428	0.343	0.1	Pyridaben (96489-71-3)	-	0.0428	0.343	0.2
Diazinon (333-41-5)	-	0.0428	0.343	0.2	Spinosad (168316-95-8)	-	0.0428	0.343	0.2
Dimethoate (60-51-5)	-	0.0428	0.343	0.2	Spiromesifen (283594-90-1)	-	0.0428	0.343	0.2
Ethoprophos (13194-48-4)	-	0.0428	0.343	0.2	Spirotetramat (203313-25-1)	-	0.0428	0.343	0.2
Etofenprox (80844-07-1)	-	0.0428	0.343	0.4	Spiroxamine (118134-30-8)	-	0.0428	0.343	0.4
Etoazazole (153233-91-1)	-	0.0428	0.343	0.2	Tebuconazole (80443-41-0)	-	0.0428	0.343	0.4
Fenoxycarb (72490-01-8)	-	0.0428	0.343	0.2	Thiacloprid (111988-49-9)	-	0.0428	0.343	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0428	0.343	0.4	Thiamethoxam (153719-23-4)	-	0.0428	0.343	0.2
Fipronil (120068-37-3)	-	0.0428	0.343	0.4	Trifloxystrobin (141517-21-7)	-	0.0428	0.343	0.2
Flonicamid (158062-67-0)	-	0.0428	0.343	1					
Fludioxinil (131341-86-1)	-	0.0428	0.343	0.4					
Hexythiazox (78587-05-0)	-	0.0428	0.343	1					
Imazalil (35554-44-0)	-	0.0428	0.343	0.2					
Imidacloprid (138261-41-3)	-	0.0428	0.343	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)**

<b>Analysis Date/Time:</b> 04/01/2025 1321	<b>Method:</b> ICP/MS	<b>Deviations from SOP:</b>
	<b>Instrument:</b> Agilent 7700x	None
<b>Analyst:</b> KF		

<b>Heavy Metal</b>	<b>Result (µg/kg)</b>	<b>LOD (µg/kg)</b>	<b>LOQ (µg/kg)</b>	<b>Action Level (µg/kg)</b>
Arsenic (As)	ND	56.5	89.4	200
Cadmium (Cd)	ND	56.5	89.4	200
Lead (Pb)	ND	56.5	89.4	500
Mercury (Hg)	ND	56.5	89.4	100



Abbreviations: ICP - Inductively-Coupled Plasma, MS - Mass Spectrometry,  
RL - Reporting Limit, AL - Action Level, LOD - Limit of Detection, LOQ - Limit of Quantitation

**Color Key**

<b>RESULT &lt; AL</b>
<b>RESULT &gt; AL</b>

"DET" detected less than LOQ

"ND" not detected above LOD

Reporting limit is 1/2 the action level of each analyte.

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:** 04/01/2025 1155  
**Analyst:** PW  
**Method:** Hardy Diagnostics CompactDry  
**Instrument:** Thermo Incubator  
**Deviations from SOP:** None

<b>Bacteria/Microbe</b>	<b>Result (CFU/g)</b>	<b>Action Level (CFU/g)</b>
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

Action levels for microbiology are referenced from the State of Arkansas MMJ testing guidelines.  
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