







# **SUMMARY OF ANALYSIS (SAMPLE ID: SA39729)**

Testing Location:Customer ID: 2161Order ID: OR11352Sample Type: PrimaryArkansasRiver Valley Relief CultivationLot Number:Matrix: Flower232 S. Broadview St.5601 Old Greenwood Rd Suite CM00065C13137146276Mass: 23g

Greenbrier, AR 72058 Fort Smith, AR 72903 **Production Run: Date Collected:** 12/23/2024 License: ADH 113 License: 00065C 5082H20241121SDO-3 **Date Received:** 12/24/2024 **Cultivar (Strain) or Sample Description:** Sourdough **Date Completed:** 12/27/2024

\*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.

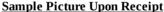
Moisture Content (%)Water Activity (aw)PASS/FAIL13.90.450 @ 24.4°CPASS

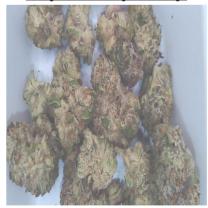
Moisture content/water activity action levels are referenced from the State of Arkansas MMJ testing guidelines.

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

<u>Cannabin</u>	oids (Top 3)	<u>(%)</u>	<u>mg</u> /g
TH	ICA	25.7	257
CE	BCA	1.24	12.4
CE	BGA	1.14	11.4
TOTA	L CBD	0.000	0.000
TOTA	L THC	23.6	236
TOTAL CAN	NABINOIDS	29.3	293
<u>Terpene</u>	<u>es (Top 5)</u>	<u>(%)</u>	µg/g
β-Caryo	phyllene	0.796	7960
d-Lin	nonene	0.488	4880
α-Hur	nulene	0.388	3880
т.	1 1	0.170	1730
Lin	alool	0.173	1/30
	nene	0.173	1180
β-Pi			

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







Scan the QR code to verify results.

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# **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA39729)**

Testing Location:Customer ID: 2161Order ID: OR11352Sample Type: PrimaryArkansasRiver Valley Relief CultivationLot Number:Matrix: Flower232 S. Broadview St.5601 Old Greenwood Rd Suite CM00065C13137146276Mass: 23g

Greenbrier, AR 72058 Fort Smith, AR 72903 **Production Run: Date Collected:** 12/23/2024 License: ADH 113 License: 00065C 5082H20241121SDO-3 **Date Received:** 12/24/2024

Cultivar (Strain) or Sample Description: Sourdough

Date Completed: 12/27/2024

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

Analysis Date/Time: 12/26/2024 1703 Method: HPLC/DAD Moisture Content (%): 13.9

Analyst: PW Instrument: Agilent 1100 Water Activity (aw): 0.450 @ 24.4°C

<u>Cannabinoid</u>	Result (%)	Result (mg/g)	LOD (mg/g)	LOQ (mg/g)	Result (mg/ mL)	Per Serving (mg)	Per Unit (mg)
CBC	ND	ND	0.0356	0.0831	-	0.000	0.000
CBCA	1.24	12.4	0.111	0.258	-	10.7	10.7
CBD	ND	ND	0.251	0.587	-	0.000	0.000
CBDA	ND	ND	0.0925	0.216	-	0.000	0.000
CBDV	ND	ND	0.0403	0.0941	-	0.000	0.000
CBDVA	ND	ND	0.108	0.251	-	0.000	0.000
CBG	0.148	1.48	0.163	0.381	-	1.27	1.27
CBGA	1.14	11.4	0.231	0.273	-	9.79	9.79
CBL	ND	ND	0.188	0.440	-	0.000	0.000
CBN	ND	ND	0.0866	0.202	-	0.000	0.000
CBNA	ND	ND	0.0934	0.218	-	0.000	0.000
CBT	ND	ND	0.136	0.316	-	0.000	0.000
Δ9-ΤΗС	1.04	10.4	0.104	0.242	-	8.95	8.95
Δ8-ΤΗС	ND	ND	0.162	0.378	-	0.000	0.000
THCA	25.7	257	0.0563	0.132	-	221	221
THCV	ND	ND	0.135	0.315	-	0.000	0.000
THCVA	0.0221	0.221	0.0431	0.100		0.190	0.190
TOTAL	29.3	293				252	252
TOTAL CBC	1.09	10.9		,		9.38	9.38
TOTAL CBD	0.000	0.000			-	0.000	0.000
TOTAL CBDV	0.000	0.000			-	0.000	0.000
TOTAL CBG	1.15	11.5			-	9.87	9.87
TOTAL CBN	0.000	0.000			-	0.000	0.000
TOTAL THC	23.6	236			-	203	203
TOTAL THCV	0.0192	0.192			-	0.165	0.165

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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SERVING MASS (g): 1.00 SERVINGS/UNIT: 1

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 = (CBDA 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) +  $\Delta$ 9-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.





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<sup>&</sup>quot;-" Not reported for this sample.



License: ADH 113







## **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA39729)**

Testing Location: Customer ID: 2161
Arkansas River Valley Relief Cultivation
232 S. Broadview St. 5601 Old Greenwood Rd Suite C
Greenbrier, AR 72058 Fort Smith, AR 72903

Cultivar (Strain) or Sample Description: Sourdough

Fort Smith, AR 72903 License: 00065C Order ID: OR11352 Lot Number: M00065C13137146276 Production Run:

5082H20241121SDO-3

**Sample Type:** Primary **Matrix:** Flower **Mass:** 23g

Date Collected: 12/23/2024 Date Received: 12/24/2024

Date Completed: 12/27/2024

#### TERPENOID PROFILE

Analysis Date/Time:12/27/2024 0039Method: GC/MSDeviations from SOP:Analyst: KFInstrument: Agilent 7890/5975None

<u>Terpene</u>	<u>Result</u> (μg/g)	Result (%)	
$\alpha$ -Bisabolol	293	0.0293	
Camphene	243	0.0243	
δ-3-Carene	46.0	0.00460	
β-Caryophyllene	7960	0.796	
Caryophyllene oxide	174	0.0174	
p-Cymene	ND	-	
Eucalyptol	ND	-	
Geraniol	<loq< td=""><td>-</td><td></td></loq<>	-	
Guaiol	ND	-	
α-Humulene	3880	0.388	
Isopulegol	206	0.0206	
d-Limonene	4880	0.488	
Linalool	1730	0.173	
β-Myrcene	823	0.0823	
cis-Nerolidol	ND	-	
trans-Nerolidol	437	0.0437	
α-Ocimene	112	0.0112	
β-Ocimene	464	0.0464	
α-Pinene	1030	0.103	
β-Pinene	1180	0.118	
α-Terpinene	81.2	0.00812	
γ-Terpinene	53.8	0.00538	
Terpinolene	172	0.0172	
TOTAL	23800	2.38	



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): 39.1

"-" Not detected above LOD.





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# **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA39729)**

Testing Location:Customer ID: 2161Order ID: OR11352Sample Type: PrimaryArkansasRiver Valley Relief CultivationLot Number:Matrix: Flower

232 S. Broadview St. 5601 Old Greenwood Rd Suite C M00065C13137146276 Mass: 23g
Greenbrier, AR 72058 Fort Smith, AR 72903 Production Run: Date Collected: 12/23/2024

License: ADH 113 License: 00065C 5082H20241121SDO-3 **Date Received:** 12/24/2024 **Cultivar (Strain) or Sample Description:** Sourdough **Date Completed:** 12/27/2024

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

Analysis Date/Time: 12/26/2024 1651 Method: LC/MS/MS Deviations from SOP:

Analyst: KF Instrument: Shimadzu LC-8050 None

<u>Pesticide</u>	<u>Result</u> (μg/g)	<u>LOD</u> (µg/g)	LOQ (µg/g)	Action Level (µg/g)	<u>Pesticide</u>	Result (µg/g)	<u>LOD</u> (µg/g)	LOQ (µg/g)	<u>Action</u> <u>Level</u> (μg/g)
Abamectin (71751-41-2)	-	0.0387	0.309	0.5	Kresoxim-methyl	_	0.0387	0.309	0.4
Acephate (30560-19-1)	-	0.0387	0.309	0.4	(143390-89-0)				
Acequinocyl (57960-19-7)	-	0.0387	0.309	2	Malathion (121-75-5)	-	0.0387	0.309	0.2
Acetamiprid (135410-20-7)	-	0.0387	0.309	0.2	Metalaxyl (57837-19-1) Methiocarb (2032-65-7)	-	0.0387 0.0387	0.309 0.309	0.2 0.2
Aldicarb (116-06-3)	-	0.0387	0.309	0.4	Methomyl (16752-77-5)	-	0.0387	0.309	0.4
Azoxystrobin (131860-33-8)	-	0.0387	0.309	0.2	Methyl parathion (298-0-0)	-	0.0387	0.309	0.2
Bifenazate (149877-41-8)	-	0.0387	0.309	0.2	MGK 264 (113-48-4)	-	0.0387	0.309	0.2
Bifenthrin (82657-04-3)	-	0.0387	0.309	0.2	Myclobutanil		0.0387	0.309	0.2
Boscalid (188425-85-6)	-	0.0387	0.309	0.4	(88671-89-0)				
Carbaryl (63-25-2)	-	0.0387	0.309	0.2	Naled (300-76-5)	-	0.0387	0.309	0.5
Carbofuran (1563-66-2)	-	0.0387	0.309	0.2	Oxamyl (23135-22-0)	-	0.0387	0.309	1
Chlorantraniliprole (800008-45-7)	-	0.0387	0.309	0.2	Paclobutrazol (76738-62-0)	-	0.0387	0.309	0.4
Chlorfenapyr		0.0387	0.309	1	Permethrins (52645-53-1)	-	0.0387	0.309	0.2
(122453-73-0)	_	0.0367	0.309	1	Phosmet (732-11-6)	-	0.0387	0.309	0.2
Chlorpyrifos (2921-88-2)	-	0.0387	0.309	0.2	Piperonyl butoxide	_	0.0387	0.309	2
Clofentezine (74115-24-5)	-	0.0387	0.309	0.2	(51-03-6)		0.0207	0.200	0.2
Cyfluthrin (68359-37-5)	-	0.0387	0.309	1	Prallethrins (2331-36-9)	-	0.0387	0.309	0.2
Cypermethrin (52315-07-8)	-	0.0387	0.309	1	Propiconazole (60207-90-1))	-	0.0387	0.309	0.4
Daminozide (1596-84-5)	-	0.0387	0.309	1	Propoxur (114-26-1)	-	0.0387	0.309	0.2
DDVP (62-73-7)	-	0.0387	0.309	0.1	Pyrethrins (8003-34-7)	-	0.0387	0.309	1
Diazinon (333-41-5)	-	0.0387	0.309	0.2	Pyridaben (96489-71-3)	-	0.0387	0.309	0.2
Dimethoate (60-51-5)	-	0.0387	0.309	0.2	Spinosad (168316-95-8)	-	0.0387	0.309	0.2
Ethoprophos (13194-48-4)	-	0.0387	0.309	0.2	Spiromesifen (283594-90-1)	-	0.0387	0.309	0.2
Etofenprox (80844-07-1)	-	0.0387	0.309	0.4	Spirotetramat				
Etoxazole (153233-91-1)	-	0.0387	0.309	0.2	(203313-25-1)	-	0.0387	0.309	0.2
Fenoxycarb (72490-01-8)	-	0.0387	0.309	0.2	Spiroxamine	_	0.0387	0.309	0.4
(E)-Fenpyroximate (134098-61-6)	-	0.0387	0.309	0.4	(118134-30-8) Tebuconazole		0.0387	0.309	0.4
Fipronil (120068-37-3)	-	0.0387	0.309	0.4	(80443-41-0)		0.0307	0.303	0.4
Flonicamid (158062-67-0)	-	0.0387	0.309	1	Thiacloprid	_	0.0387	0.309	0.2
Fludioxinil (131341-86-1)	-	0.0387	0.309	0.4	(111988-49-9)				
Hexythiazox (78587-05-0)	-	0.0387	0.309	1	Thiamethoxam (153719-23-4)	-	0.0387	0.309	0.2
Imazalil (35554-44-0)	-	0.0387	0.309	0.2	Trifloxystrobin				
Imidacloprid (138261-41-3)	-	0.0387	0.309	0.4	(141517-21-7)		0.0387	0.309	0.2



Color Key

# 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

<u>Pesticide</u>	Synonym(s)	<u>Pesticide</u>	Synonym(s)	<u>Pesticide</u>	Synonym(s)
Cyfluthrin	Baythroid	Myclobutanil	Systhane	Propiconazole	Tilt
DDVP	Dichlorvos	Naled	Dibrom	Propoxur	Baygon
Ethoprophos	Prophos	Phosmet	Imidan		













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Testing Location:Customer ID: 2161Order ID: OR11352Sample Type: PrimaryArkansasRiver Valley Relief CultivationLot Number:Matrix: Flower

 232 S. Broadview St.
 5601 Old Greenwood Rd Suite C
 M00065C13137146276
 Mass: 23g

 Greenbrier, AR 72058
 Fort Smith, AR 72903
 Production Run:
 Date Collected: 12/23/2024

 License: ADH 113
 License: 00065C
 5082H20241121SDO-3
 Date Received: 12/24/2024

Cultivar (Strain) or Sample Description: Sourdough

Date Completed: 12/27/2024

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

Analysis Date/Time: 12/26/2024 1615 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)	-	54.4	86.2	200
Cadmium (Cd)	-	54.4	86.2	200
Lead (Pb)	-	54.4	86.2	500
Mercury (Hg)	_	54.4	86.2	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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License: ADA 05 H273





5082H20241121SDO-3



**Date Received:** 12/24/2024

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Testing Location:Customer ID: 2161Sample ID: SA39729Sample Type: PrimaryArkansasRiver Valley Relief CultivationLot Number:Matrix: Flower

232 S. Broadview St. 5601 Old Greenwood Rd Suite C M00065C13137146276 Mass: 23g
Greenbrier, AR 72058 Fort Smith, AR 72903 Production Run: Date Collected: 12/23/2024

Cultivar (Strain) or Sample Description: Sourdough

Date Completed: 12/27/2024

## MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

**Analysis Date/Time:** 12/27/2024 0748 **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	-

License: 00065C



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)

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