

**SUMMARY OF ANALYSIS (SAMPLE ID: SA40424)**

<b>Testing Location:</b>	<b>Customer ID:</b> 2161	<b>Order ID:</b> OR11476	<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	M00065C13134922032	<b>Mass:</b> 23g
Greenbrier, AR 72058	Fort Smith, AR 72903	<b>Production Run:</b>	<b>Date Collected:</b> 03/06/2025
License: ADH 113	License: 00065C	4088H20250117LOP-3	<b>Date Received:</b> 03/06/2025
<b>Cultivar (Strain) or Sample Description:</b> Lollipop			<b>Date Completed:</b> 03/09/2025

\*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)**

0.381 @ 24.3°C

**PASS/FAIL**

**PASS**

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

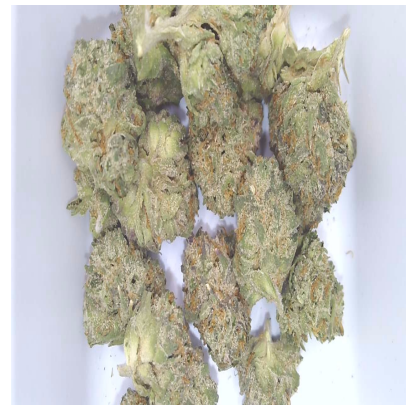
Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

<b>Cannabinoids (Top 3)</b>	<b>(%)</b>	<b>mg/g</b>
THCA	26.7	267
Δ9-THC	0.926	9.26
CBGA	0.757	7.57
TOTAL CBD	0.000	0.000
TOTAL THC	24.3	243
TOTAL CANNABINOIDS	28.6	286

<b>Terpenes (Top 5)</b>	<b>(%)</b>	<b>µg/g</b>
d-Limonene	0.596	5960
Linalool	0.399	3990
β-Myrcene	0.384	3840
β-Caryophyllene	0.334	3340
α-Humulene	0.117	1170
TOTAL TERPENES	2.13	21300

<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: SA40424)**

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

**Analysis Date/Time:** 03/07/2025 1458

**Method:** HPLC/DAD

**Moisture Content (%):** 10.4

**Analyst:** PW

**Instrument:** Agilent 1100

**Water Activity (aw):** 0.381 @ 24.3°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	0.0434	0.101	-	0.000	0.000
CBCA	ND	ND	0.135	0.314	-	0.000	0.000
CBD	ND	ND	0.306	0.714	-	0.000	0.000
CBDV	DET	DET	0.113	0.263	-	0.000	0.000
CBDVA	ND	ND	0.131	0.306	-	0.000	0.000
CBG	0.0606	0.606	0.199	0.464	-	0.543	0.543
CBGA	0.757	7.57	0.282	0.332	-	6.78	6.78
CBL	ND	ND	0.230	0.536	-	0.000	0.000
CBN	ND	ND	0.105	0.246	-	0.000	0.000
CBNA	ND	ND	0.114	0.265	-	0.000	0.000
Δ9-THC	0.926	9.26	0.126	0.295	-	8.30	8.30
Δ8-THC	ND	ND	0.197	0.460	-	0.000	0.000
THCA	26.7	267	0.0685	0.160	-	239	239
THCV	ND	ND	0.164	0.383	-	0.000	0.000
THCVA	0.117	1.17	0.0525	0.122	-	1.05	1.05
<b>TOTAL</b>	<b>28.6</b>	<b>286</b>			-	<b>256</b>	<b>256</b>
<b>TOTAL CBC</b>	<b>0.000</b>	<b>0.000</b>			-	<b>0.000</b>	<b>0.000</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>0.725</b>	<b>7.25</b>			-	<b>6.50</b>	<b>6.50</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>24.3</b>	<b>243</b>			-	<b>218</b>	<b>218</b>
<b>TOTAL THCV</b>	<b>0.102</b>	<b>1.02</b>			-	<b>0.910</b>	<b>0.910</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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### TERPENOID PROFILE

**Analysis Date/Time:** 03/07/2025 1545

**Analyst:** KF

**Method:** GC/MS

**Instrument:** Agilent 7890/5975

**Deviations from SOP:**

None

<u>Terpene</u>	<u>Result</u> <u>(µg/g)</u>	<u>Result</u> <u>(%)</u>	
α-Bisabolol	48.6	0.00486	
Camphene	174	0.0174	
δ-3-Carene	ND	-	
β-Caryophyllene	3340	0.334	■
Caryophyllene oxide	<LOQ	-	
p-Cymene	<LOQ	-	
Eucalyptol	ND	-	
Geraniol	ND	-	
Guaiol	ND	-	
α-Humulene	1170	0.117	■
Isopulegol	ND	-	
d-Limonene	5960	0.596	■
Linalool	3990	0.399	■
β-Myrcene	3840	0.384	■
cis-Nerolidol	ND	-	
trans-Nerolidol	990	0.0990	■
α-Ocimene	ND	-	
β-Ocimene	54.6	0.00546	
α-Pinene	557	0.0557	
β-Pinene	1040	0.104	■
α-Terpinene	ND	-	
γ-Terpinene	ND	-	
Terpinolene	81.0	0.00810	
<b>TOTAL</b>	<b>21300</b>	<b>2.13</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): 47.6**

"-" Not detected above LOD.

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

**Analysis Date/Time:** 03/07/2025 1501

**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)	-	0.0472	0.378	0.5	Kresoxim-methyl (143390-89-0)	-	0.0472	0.378	0.4
Acephate (30560-19-1)	-	0.0472	0.378	0.4	Malathion (121-75-5)	-	0.0472	0.378	0.2
Acetaminocyl (57960-19-7)	-	0.0472	0.378	2	Metalaxyl (57837-19-1)	-	0.0472	0.378	0.2
Acetamiprid (135410-20-7)	-	0.0472	0.378	0.2	Methiocarb (2032-65-7)	-	0.0472	0.378	0.2
Aldicarb (116-06-3)	-	0.0472	0.378	0.4	Methomyl (16752-77-5)	-	0.0472	0.378	0.4
Azoxystrobin (131860-33-8)	-	0.0472	0.378	0.2	Methyl parathion (298-0-0)	-	0.0472	0.378	0.2
Bifenazate (149877-41-8)	-	0.0472	0.378	0.2	MGK 264 (113-48-4)	-	0.0472	0.378	0.2
Bifenthrin (82657-04-3)	-	0.0472	0.378	0.2	Myclobutanil (88671-89-0)	-	0.0472	0.378	0.2
Boscalid (188425-85-6)	-	0.0472	0.378	0.4	Naled (300-76-5)	-	0.0472	0.378	0.5
Carbaryl (63-25-2)	-	0.0472	0.378	0.2	Oxamyl (23135-22-0)	-	0.0472	0.378	1
Carbofuran (1563-66-2)	-	0.0472	0.378	0.2	Paclobutrazol (76738-62-0)	-	0.0472	0.378	0.4
Chlorantraniliprole (800008-45-7)	-	0.0472	0.378	0.2	Permethrins (52645-53-1)	-	0.0472	0.378	0.2
Chlorfenapyr (122453-73-0)	-	0.0472	0.378	1	Phosmet (732-11-6)	-	0.0472	0.378	0.2
Chlorpyrifos (2921-88-2)	-	0.0472	0.378	0.2	Piperonyl butoxide (51-03-6)	-	0.0472	0.378	2
Clofentezine (74115-24-5)	-	0.0472	0.378	0.2	Prallethrins (2331-36-9)	-	0.0472	0.378	0.2
Cyfluthrin (68359-37-5)	-	0.0472	0.378	1	Propiconazole (60207-90-1))	-	0.0472	0.378	0.4
Cypermethrin (52315-07-8)	-	0.0472	0.378	1	Propoxur (114-26-1)	-	0.0472	0.378	0.2
Daminozide (1596-84-5)	-	0.0472	0.378	1	Pyrethrins (8003-34-7)	-	0.0472	0.378	1
DDVP (62-73-7)	-	0.0472	0.378	0.1	Pyridaben (96489-71-3)	-	0.0472	0.378	0.2
Diazinon (333-41-5)	-	0.0472	0.378	0.2	Spinosad (168316-95-8)	-	0.0472	0.378	0.2
Dimethoate (60-51-5)	-	0.0472	0.378	0.2	Spiromesifen (283594-90-1)	-	0.0472	0.378	0.2
Ethoprophos (13194-48-4)	-	0.0472	0.378	0.2	Spirotetramat (203313-25-1)	-	0.0472	0.378	0.2
Etofenprox (80844-07-1)	-	0.0472	0.378	0.4	Spiroxamine (118134-30-8)	-	0.0472	0.378	0.4
Etoxazole (153233-91-1)	-	0.0472	0.378	0.2	Tebuconazole (80443-41-0)	-	0.0472	0.378	0.4
Fenoxycarb (72490-01-8)	-	0.0472	0.378	0.2	Thiacloprid (111988-49-9)	-	0.0472	0.378	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0472	0.378	0.4	Thiamethoxam (153719-23-4)	-	0.0472	0.378	0.2
Fipronil (120068-37-3)	-	0.0472	0.378	0.4	Trifloxystrobin (141517-21-7)	-	0.0472	0.378	0.2
Flonicamid (158062-67-0)	-	0.0472	0.378	1					
Fludioxinil (131341-86-1)	-	0.0472	0.378	0.4					
Hexythiazox (78587-05-0)	-	0.0472	0.378	1					
Imazalil (35554-44-0)	-	0.0472	0.378	0.2					
Imidacloprid (138261-41-3)	-	0.0472	0.378	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:** 03/07/2025 1433

**Method:** ICP/MS

**Deviations from SOP:**

**Instrument:** Agilent 7700x

None

**Analyst:** 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	59.5	94.3	200
Cadmium (Cd)	ND	59.5	94.3	200
Lead (Pb)	ND	59.5	94.3	500
Mercury (Hg)	ND	59.5	94.3	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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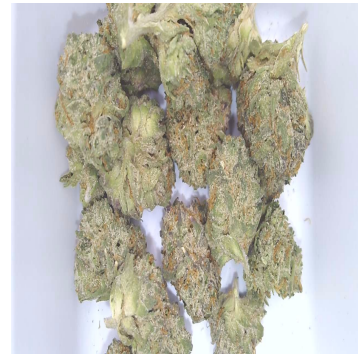
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License: ADA 05_H273	License: 00065C	4088H20250117L0P-3	<b>Date Received:</b> 03/06/2025
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**MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)**

**Analysis Date/Time:** 03/09/2025 1753  
**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	Present	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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