

SUMMARY OF ANALYSIS (SAMPLE ID: SA41141)

Testing Location: Arkansas 232 S. Broadview St. Greenbrier, AR 72058 License: ADH 113	Customer ID: 2161 River Valley Relief Cultivation 5601 Old Greenwood Rd Suite C Fort Smith, AR 72903 License: 00065C	Order ID: OR11604 Lot Number: M00065C13130338131 Production Run: 4095H20250401LOP-3	Sample Type: Primary Matrix: Flower Mass: 23g Date Collected: 05/19/2025 Date Received: 05/19/2025
Cultivar (Strain) or Sample Description: Lollipop			Date Completed: 05/21/2025

*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.
*Where provided, statements of conformity (e.g. Pass/Fail) are made in accordance with ILAC G8, Binary Statement for Simple Acceptance Rule (w=0, AL=TL).
PASS: when the result is within the acceptance interval. FAIL: when the result is outside the acceptance interval

Moisture Content (%)

9.90

Water Activity (aw)

0.391 @ 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.

Cannabinoids (Top 3)	(%)	mg/g
THCA	29.3	293
CBGA	0.929	9.29
Δ9-THC	0.696	6.96
TOTAL CBD	0.000	0.000
TOTAL THC	26.4	264
TOTAL CANNABINOIDS	31.2	312

Terpenes (Top 5)	(%)	ppm
d-Limonene	0.657	6570
β-Myrcene	0.452	4520
Linalool	0.396	3960
β-Caryophyllene	0.307	3070
β-Pinene	0.139	1390
TOTAL TERPENES	2.29	22900

Contaminants	PASS/FAIL
Heavy Metals:	PASS
Microbiology:	PASS
Pesticides:	PASS



Scan the QR code to verify results.

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Kyle W. Felling
Kyle W. Felling, Ph.D.
Laboratory Director



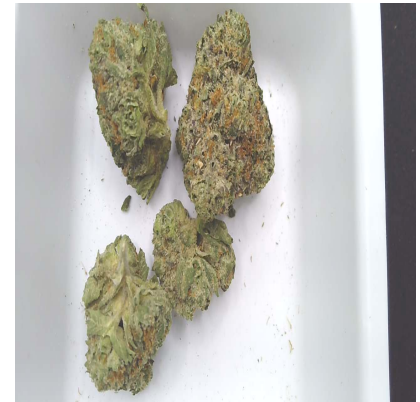
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CANNABINOID (POTENCY) PROFILE (SOP: SOP-CANN-001)

Analysis Date/Time: 05/20/2025 1311 **Method:** HPLC/DAD **Moisture Content (%):** 9.90
Analyst: PW **Instrument:** Agilent 1100 **Water Activity (aw):** 0.391 @ 24.3°C

<u>Cannabinoid</u>	<u>Result (%)</u>	<u>Result (mg/g)</u>	<u>LOD (mg/g)</u>	<u>LOQ (mg/g)</u>	<u>Result (mg/mL)</u>	<u>Per Serving (mg)</u>	<u>Per Unit (mg)</u>
CBC	ND	ND	0.0427	0.0997	-	0.000	0.000
BCA	ND	ND	0.133	0.310	-	0.000	0.000
CBD	ND	ND	0.301	0.704	-	0.000	0.000
CBDA	DET	DET	0.111	0.259	-	0.000	0.000
CBDV	ND	ND	0.0484	0.113	-	0.000	0.000
CBDVA	ND	ND	0.129	0.301	-	0.000	0.000
CBG	0.0950	0.950	0.196	0.457	-	0.856	0.856
CBGA	0.929	9.29	0.277	0.327	-	8.37	8.37
CBL	ND	ND	0.226	0.528	-	0.000	0.000
CBN	ND	ND	0.104	0.243	-	0.000	0.000
CBNA	ND	ND	0.112	0.261	-	0.000	0.000
Δ9-THC	0.696	6.96	0.124	0.290	-	6.27	6.27
Δ8-THC	ND	ND	0.194	0.453	-	0.000	0.000
THCA	29.3	293	0.0675	0.158	-	264	264
THCV	ND	ND	0.162	0.377	-	0.000	0.000
THCVA	0.112	1.12	0.0517	0.120	-	1.01	1.01
TOTAL	31.2	312				281	281
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	0.910	9.10				8.20	8.20
TOTAL CBN	0.000	0.000				0.000	0.000
TOTAL THC	26.4	264				238	238
TOTAL THC V	0.0972	0.972				0.876	0.876



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.
Dry percent = Wet percent / (1-(Moisture Content/100))

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) + Δ9-THC
 Total THC V = (THCVA x 0.867) + THC V

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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Cultivar (Strain) or Sample Description: Lollipop **Date Completed:** 05/21/2025

TERPENOID PROFILE

Analysis Date/Time: 05/20/2025 1312
Analyst: KF

Method: GC/MS
Instrument: Agilent 7890/5975

Deviations from SOP:
None

<u>Terpene</u>	<u>Result (ppm)</u>	<u>Result (%)</u>	
α-Bisabolol	71.4	0.00714	
Camphene	204	0.0204	
δ-3-Carene	ND	-	
β-Caryophyllene	3070	0.307	■
Caryophyllene oxide	55.3	0.00553	
p-Cymene	<LOQ	-	
Eucalyptol	<LOQ	-	
Geraniol	ND	-	
Guaiol	ND	-	
α-Humulene	852	0.0852	■
Isopulegol	ND	-	
d-Limonene	6570	0.657	■
Linalool	3960	0.396	■
β-Myrcene	4520	0.452	■
cis-Nerolidol	ND	-	
trans-Nerolidol	1370	0.137	■
α-Ocimene	56.9	0.00569	
β-Ocimene	47.7	0.00477	
α-Pinene	682	0.0682	■
β-Pinene	1390	0.139	■
α-Terpinene	ND	-	
γ-Terpinene	ND	-	
Terpinolene	81.7	0.00817	
TOTAL	22900	2.29	



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 (ppm): 46.9

"-" Not detected above LOD.

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Cultivar (Strain) or Sample Description: Lollipop **Date Completed:** 05/21/2025

PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 05/20/2025 1313
Analyst: KF

Method: LC/MS/MS
Instrument: Shimadzu LC-8050

Deviations from SOP:
None

Pesticide	Result (ppm)	LOD (ppm)	LOQ (ppm)	Action Level (ppm)	Pesticide	Result (ppm)	LOD (ppm)	LOQ (ppm)	Action Level (ppm)
Abamectin (71751-41-2)	-	0.0467	0.374	0.5	Kresoxim-methyl (143390-89-0)	-	0.0467	0.374	0.4
Acephate (30560-19-1)	-	0.0467	0.374	0.4	Malathion (121-75-5)	-	0.0467	0.374	0.2
Acetamiprid (135410-20-7)	-	0.0467	0.374	0.2	Metalaxyl (57837-19-1)	-	0.0467	0.374	0.2
Aldicarb (116-06-3)	-	0.0467	0.374	0.4	Methiocarb (2032-65-7)	-	0.0467	0.374	0.2
Azoxystrobin (131860-33-8)	-	0.0467	0.374	0.2	Methomyl (16752-77-5)	-	0.0467	0.374	0.4
Bifenazate (149877-41-8)	-	0.0467	0.374	0.2	Methyl parathion (298-0-0)	-	0.0467	0.374	0.2
Bifenthrin (82657-04-3)	-	0.0467	0.374	0.2	MGK 264 (113-48-4)	-	0.0467	0.374	0.2
Boscalid (188425-85-6)	-	0.0467	0.374	0.4	Myclobutanil (88671-89-0)	-	0.0467	0.374	0.2
Carbaryl (63-25-2)	-	0.0467	0.374	0.2	Naled (300-76-5)	-	0.0467	0.374	0.5
Carbofuran (1563-66-2)	-	0.0467	0.374	0.2	Oxamyl (23135-22-0)	-	0.0467	0.374	1
Chlorantraniliprole (800008-45-7)	-	0.0467	0.374	0.2	Pacllobutrazol (76738-62-0)	-	0.0467	0.374	0.4
Chlorfenapyr (122453-73-0)	-	0.0467	0.374	1	Permethrins (52645-53-1)	-	0.0467	0.374	0.2
Chlorpyrifos (2921-88-2)	-	0.0467	0.374	0.2	Phosmet (732-11-6)	-	0.0467	0.374	0.2
Clofentezine (74115-24-5)	-	0.0467	0.374	0.2	Piperonyl butoxide (51-03-6)	-	0.0467	0.374	2
Cyfluthrin (68359-37-5)	-	0.0467	0.374	1	Prallethrins (2331-36-9)	-	0.0467	0.374	0.2
Cypermethrin (52315-07-8)	-	0.0467	0.374	1	Propiconazole (60207-90-1)	-	0.0467	0.374	0.4
Daminozide (1596-84-5)	-	0.0467	0.374	1	Propoxur (114-26-1)	-	0.0467	0.374	0.2
DDVP (62-73-7)	-	0.0467	0.374	0.1	Pyrethrins (8003-34-7)	-	0.0467	0.374	1
Diazinon (333-41-5)	-	0.0467	0.374	0.2	Pyridaben (96489-71-3)	-	0.0467	0.374	0.2
Dimethoate (60-51-5)	-	0.0467	0.374	0.2	Spinosad (168316-95-8)	-	0.0467	0.374	0.2
Ethoprophos (13194-48-4)	-	0.0467	0.374	0.2	Spiromesifen (283594-90-1)	-	0.0467	0.374	0.2
Etofenprox (80844-07-1)	-	0.0467	0.374	0.4	Spirotetramat (203313-25-1)	-	0.0467	0.374	0.2
Etoxazole (153233-91-1)	-	0.0467	0.374	0.2	Spiroxamine (118134-30-8)	-	0.0467	0.374	0.4
Fenoxycarb (72490-01-8)	-	0.0467	0.374	0.2	Tebuconazole (80443-41-0)	-	0.0467	0.374	0.4
(E)-Fenpyroximate (134098-61-6)	-	0.0467	0.374	0.4	Thiacloprid (111988-49-9)	-	0.0467	0.374	0.2
Fipronil (120068-37-3)	-	0.0467	0.374	0.4	Thiamethoxam (153719-23-4)	-	0.0467	0.374	0.2
Fonicamid (158062-67-0)	-	0.0467	0.374	1	Trifloxystrobin (141517-21-7)	-	0.0467	0.374	0.2
Fludioxinil (131341-86-1)	-	0.0467	0.374	0.4					
Hexythiazox (78587-05-0)	-	0.0467	0.374	1					
Imazalil (35554-44-0)	-	0.0467	0.374	0.2					
Imidacloprid (138261-41-3)	-	0.0467	0.374	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	Sythane	Propiconazole	Tilt
DDVP	Dichlorvos	Naled	Dibrom	Propoxur	Baygon
Ethoprophos	Prophos	Phosmet	Imidan		

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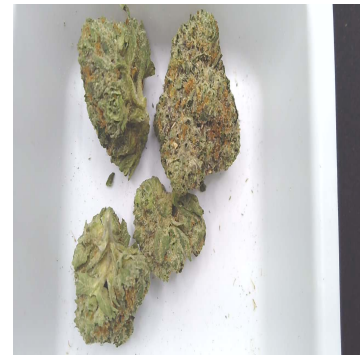
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HEAVY METAL PROFILE (SOP: SOP-ICP-200.6)

Analysis Date/Time: 05/20/2025 1515 **Method:** ICP/MS **Deviations from SOP:** None
Analyst: KF **Instrument:** Agilent 7700x

<u>Heavy Metal</u>	<u>Result (ppb)</u>	<u>LOD (ppb)</u>	<u>LOQ (ppb)</u>	<u>Action Level (ppb)</u>
Arsenic (As)	ND	56.9	90.1	200
Cadmium (Cd)	ND	56.9	90.1	200
Lead (Pb)	ND	56.9	90.1	500
Mercury (Hg)	ND	56.9	90.1	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

RESULT < AL
RESULT > AL

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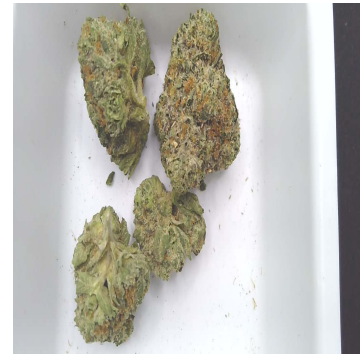
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MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 05/20/2025 1317 **Method:** Hardy Diagnostics CompactDry **Deviations from SOP:**
Analyst: PW **Instrument:** Thermo Incubator None

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