

SUMMARY OF ANALYSIS (SAMPLE ID: SA42278)

Testing Location:	Customer ID: 2161	Order ID: OR11818	Sample Type: Primary
Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix: Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13131221572	Mass: 23g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 09/25/2025
License: ADH 113	License: 00065C	3108H20250818KLP-2	Date Received: 09/25/2025
Cultivar (Strain) or Sample Description: Key Lime Pie			Date Completed: 09/29/2025

*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 (%)

11.9

Water Activity (aw)

0.472 @ 24.8°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	31.0	310
CBGA	1.61	16.1
CBCA	0.219	2.19
TOTAL CBD	0.000	0.000
TOTAL THC	27.4	274
TOTAL CANNABINOIDS	33.1	331

Terpenes (Top 5)	(%)	ppm
β-Myrcene	0.485	4850
d-Limonene	0.463	4630
Linalool	0.393	3930
β-Caryophyllene	0.312	3120
α-Humulene	0.135	1350
TOTAL TERPENES	2.40	24000

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

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



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License: ADH 113	License: 00065C	3108H20250818KLP-2	Date Received: 09/25/2025
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CANNABINOID (POTENCY) PROFILE (SOP: SOP-CANN-001)

Analysis Date/Time: 09/28/2025 1432

Method: HPLC/DAD

Moisture Content (%): 11.9

Analyst: PW

Instrument: Agilent 1100

Water Activity (aw): 0.472 @ 24.8°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	0.0443	0.103	-	0.000	0.000
CBCA	0.219	2.19	0.138	0.321	-	1.93	1.93
CBD	ND	ND	0.313	0.730	-	0.000	0.000
CBDV	ND	ND	0.115	0.269	-	0.000	0.000
CBDVA	ND	ND	0.0502	0.117	-	0.000	0.000
CBDVA	ND	ND	0.134	0.312	-	0.000	0.000
CBG	ND	ND	0.203	0.474	-	0.000	0.000
CBGA	1.61	16.1	0.288	0.339	-	14.2	14.2
CBL	ND	ND	0.234	0.547	-	0.000	0.000
CBN	ND	ND	0.108	0.252	-	0.000	0.000
CBNA	ND	ND	0.116	0.271	-	0.000	0.000
Δ9-THC	0.123	1.23	0.129	0.301	-	1.08	1.08
Δ8-THC	ND	ND	0.201	0.470	-	0.000	0.000
THCA	31.0	310	0.0700	0.164	-	273	273
THCV	ND	ND	0.168	0.392	-	0.000	0.000
THCVA	0.154	1.54	0.0537	0.125	-	1.36	1.36
TOTAL	33.1	331			-	292	292
TOTAL CBC	0.192	1.92			-	1.69	1.69
TOTAL CBD	0.000	0.000			-	0.000	0.000
TOTAL CBDV	0.000	0.000			-	0.000	0.000
TOTAL CBG	1.42	14.2			-	12.5	12.5
TOTAL CBN	0.000	0.000			-	0.000	0.000
TOTAL THC	27.4	274			-	241	241
TOTAL THCV	0.134	1.34			-	1.18	1.18



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 = (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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License: ADH 113	License: 00065C	3108H20250818KLP-2	Date Received: 09/25/2025
Cultivar (Strain) or Sample Description: Key Lime Pie			Date Completed: 09/29/2025

TERPENOID PROFILE

Analysis Date/Time: 09/28/2025 2046

Method: GC/MS

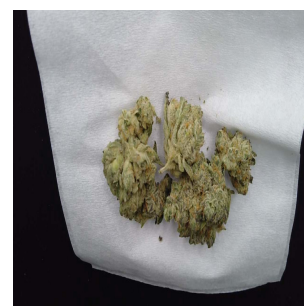
Deviations from SOP:

Analyst: KF

Instrument: Agilent 7890/5975

None

Terpene	Result (ppm)	Result (%)	Terpene	Result (ppm)	Result (%)
α-Bisabolol	446	0.0446	d-Limonene	4630	0.463
L-Borneol	ND	-	Linalool	3930	0.393
D-Borneol	122	0.0122	l-Menthone	ND	-
Camphene	163	0.0163	Menthol	104	0.0104
Camphor	ND	-	β-Myrcene	4850	0.485
δ-3-Carene	<LOQ	-	Nerol	98.8	0.00988
Carvacrol	ND	-	cis-Nerolidol	ND	-
Carvone	ND	-	trans-Nerolidol	310	0.0310
β-Caryophyllene	3120	0.312	Nootkatone	ND	-
Caryophyllene oxide	120	0.0120	cis-β-Ocimene	54.5	0.00545
Cedrene	ND	-	trans-β-Ocimene	<LOQ	-
Cedrol	ND	-	Octyl acetate	ND	-
cis-Citral	ND	-	α-Phellandrene	<LOQ	-
trans-Citral	ND	-	Phytane	ND	-
Citronellol	ND	-	α-Pinene	538	0.0538
o-Cymene	ND	-	β-Pinene	744	0.0744
m-Cymene	ND	-	Piperitone	ND	-
p-Cymene	ND	-	Pulegone	ND	-
Eucalyptol	ND	-	Sabinene	ND	-
trans-β-Farnesene	115	0.0115	Sabinene hydrate	<LOQ	-
Farnesol 1	ND	-	Safranal	ND	-
Farnesol 2	662	0.0662	Squalene	130	0.0130
Fenchone	<LOQ	-	Terpinen-4-ol	<LOQ	-
Fenchyl alcohol	755	0.0755	α-Terpinene	<LOQ	-
Geraniol	237	0.0237	γ-Terpinene	<LOQ	-
Geranyl acetate	124	0.0124	α-Terpineol	698	0.0698
Guaiol	ND	-	Terpinolene	57.0	0.00570
α-Humulene	1350	0.135	α-Thujone	468	0.0468
Isoborneol	<LOQ	-	Thymol	ND	-
Isobornyl acetate	ND	-	Valencene	92.0	0.00920
d-Isomenthone	ND	-	d-Valerolactam	ND	-
Isopulegol	99.6	0.00996	Verbenone	<LOQ	-



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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"-" Not detected above LOD.

TOTAL (ppm) 24000 (%) 2.40 **Reporting Limit (ppm):** 48.6

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Laboratory Director



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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: OR11818 Lot Number: M00065C13131221572 Production Run: 3108H20250818KLP-2	Sample Type: Primary Matrix: Flower Mass: 23g Date Collected: 09/25/2025 Date Received: 09/25/2025
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Cultivar (Strain) or Sample Description: Key Lime Pie

Date Completed: 09/29/2025

PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 09/28/2025 1420

Method: LC/MS/MS

Deviations from SOP:

Analyst: KF

Instrument: Shimadzu LC-8050

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)	-	0.0478	0.383	0.5	Kresoxim-methyl (143390-89-0)	-	0.0478	0.383	0.4
Acephate (30560-19-1)	-	0.0478	0.383	0.4	Malathion (121-75-5)	-	0.0478	0.383	0.2
Acetaminocyl (57960-19-7)	-	0.0478	0.383	2	Metalaxyl (57837-19-1)	-	0.0478	0.383	0.2
Acetamiprid (135410-20-7)	-	0.0478	0.383	0.2	Methiocarb (2032-65-7)	-	0.0478	0.383	0.2
Aldicarb (116-06-3)	-	0.0478	0.383	0.4	Methomyl (16752-77-5)	-	0.0478	0.383	0.4
Azoxystrobin (131860-33-8)	-	0.0478	0.383	0.2	Methyl parathion (298-0-0)	-	0.0478	0.383	0.2
Bifenazate (149877-41-8)	-	0.0478	0.383	0.2	MGK 264 (113-48-4)	-	0.0478	0.383	0.2
Bifenthrin (82657-04-3)	-	0.0478	0.383	0.2	Myclobutanil (88671-89-0)	-	0.0478	0.383	0.2
Boscalid (188425-85-6)	-	0.0478	0.383	0.4	Naled (300-76-5)	-	0.0478	0.383	0.5
Carbaryl (63-25-2)	-	0.0478	0.383	0.2	Oxamyl (23135-22-0)	-	0.0478	0.383	1
Carbofuran (1563-66-2)	-	0.0478	0.383	0.2	Paclobutrazol (76738-62-0)	-	0.0478	0.383	0.4
Chlorantraniliprole (800008-45-7)	-	0.0478	0.383	0.2	Permethrins (52645-53-1)	-	0.0478	0.383	0.2
Chlorfenapyr (122453-73-0)	-	0.0478	0.383	1	Phosmet (732-11-6)	-	0.0478	0.383	0.2
Chlorpyrifos (2921-88-2)	-	0.0478	0.383	0.2	Piperonyl butoxide (51-03-6)	-	0.0478	0.383	2
Clofentezine (74115-24-5)	-	0.0478	0.383	0.2	Prallethrins (2331-36-9)	-	0.0478	0.383	0.2
Cyfluthrin (68359-37-5)	-	0.0478	0.383	1	Propiconazole (60207-90-1))	-	0.0478	0.383	0.4
Cypermethrin (52315-07-8)	-	0.0478	0.383	1	Propoxur (114-26-1)	-	0.0478	0.383	0.2
Daminozide (1596-84-5)	-	0.0478	0.383	1	Pyrethrins (8003-34-7)	-	0.0478	0.383	1
DDVP (62-73-7)	-	0.0478	0.383	0.1	Pyridaben (96489-71-3)	-	0.0478	0.383	0.2
Diazinon (333-41-5)	-	0.0478	0.383	0.2	Spinosad (168316-95-8)	-	0.0478	0.383	0.2
Dimethoate (60-51-5)	-	0.0478	0.383	0.2	Spiromesifen (283594-90-1)	-	0.0478	0.383	0.2
Ethoprophos (13194-48-4)	-	0.0478	0.383	0.2	Spirotetramat (203313-25-1)	-	0.0478	0.383	0.2
Etofenprox (80844-07-1)	-	0.0478	0.383	0.4	Spiroxamine (118134-30-8)	-	0.0478	0.383	0.4
Etoxazole (153233-91-1)	-	0.0478	0.383	0.2	Tebuconazole (80443-41-0)	-	0.0478	0.383	0.4
Fenoxycarb (72490-01-8)	-	0.0478	0.383	0.2	Thiacloprid (111988-49-9)	-	0.0478	0.383	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0478	0.383	0.4	Thiamethoxam (153719-23-4)	-	0.0478	0.383	0.2
Fipronil (120068-37-3)	-	0.0478	0.383	0.4	Trifloxystrobin (141517-21-7)	-	0.0478	0.383	0.2
Flonicamid (158062-67-0)	-	0.0478	0.383	1					
Fludioxinil (131341-86-1)	-	0.0478	0.383	0.4					
Hexythiazox (78587-05-0)	-	0.0478	0.383	1					
Imazalil (35554-44-0)	-	0.0478	0.383	0.2					
Imidacloprid (138261-41-3)	-	0.0478	0.383	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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Cultivar (Strain) or Sample Description: Key Lime Pie			Date Completed: 09/29/2025

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

Analysis Date/Time: 09/28/2025 1732

Method: ICP/MS

Deviations from SOP:

Instrument: Agilent 7700x

None

Analyst: KF

Heavy Metal	Result (ppb)	LOD (ppb)	LOQ (ppb)	Action Level (ppb)
Arsenic (As)	ND	59.9	94.9	200
Cadmium (Cd)	ND	59.9	94.9	200
Lead (Pb)	ND	59.9	94.9	500
Mercury (Hg)	ND	59.9	94.9	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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MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 09/28/2025 1101	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

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