

SUMMARY OF ANALYSIS (SAMPLE ID: SA42459)

Testing Location:	Customer ID: 2161	Order ID: OR11861	Sample Type: Primary
Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix: Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13132021084	Mass: 23g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 10/23/2025
License: ADH 113	License: 00065C	6111H20250915KLP-3	Date Received: 10/23/2025
Cultivar (Strain) or Sample Description: Key Lime Pie			Date Completed: 10/27/2025

*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 (%)

11.6

Water Activity (aw)

0.431 @ 24.5°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.

<u>Cannabinoids (Top 3)</u>	<u>(%)</u>	<u>mg/g</u>
THCA	32.8	328
CBGA	1.66	16.6
CBCA	0.620	6.20
TOTAL CBD	0.000	0.000
TOTAL THC	29.2	292
TOTAL CANNABINOIDS	35.6	356

<u>Terpenes (Top 5)</u>	<u>(%)</u>	<u>ppm</u>
β-Myrcene	0.473	4730
β-Caryophyllene	0.335	3350
Linalool	0.321	3210
d-Limonene	0.295	2950
α-Humulene	0.146	1460
TOTAL TERPENES	2.13	21300

<u>Contaminants</u>	<u>PASS/FAIL</u>
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



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA42459)

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License: ADH 113	License: 00065C	6111H20250915KLP-3	Date Received: 10/23/2025
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CANNABINOID (POTENCY) PROFILE (SOP: SOP-CANN-001)

Analysis Date/Time: 10/24/2025 1502 **Method:** HPLC/DAD **Moisture Content (%):** 11.6
Analyst: PW **Instrument:** Agilent 1100 **Water Activity (aw):** 0.431 @ 24.5°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	0.0408	0.0951	-	0.000	0.000
CBCA	0.620	6.20	0.127	0.295	-	5.48	5.48
CBD	ND	ND	0.288	0.671	-	0.000	0.000
CBDA	ND	ND	0.106	0.247	-	0.000	0.000
CBDV	ND	ND	0.0461	0.108	-	0.000	0.000
CBDVA	ND	ND	0.123	0.287	-	0.000	0.000
CBG	ND	ND	0.187	0.436	-	0.000	0.000
CBGA	1.66	16.6	0.265	0.312	-	14.7	14.7
CBL	ND	ND	0.216	0.504	-	0.000	0.000
CBN	ND	ND	0.0991	0.231	-	0.000	0.000
CBNA	ND	ND	0.107	0.249	-	0.000	0.000
Δ9-THC	0.362	3.62	0.119	0.277	-	3.20	3.20
Δ8-THC	ND	ND	0.185	0.432	-	0.000	0.000
THCA	32.8	328	0.0644	0.151	-	290	290
THCV	ND	ND	0.155	0.360	-	0.000	0.000
THCVA	0.147	1.47	0.0494	0.115	-	1.30	1.30
TOTAL	35.6	356			-	315	315
TOTAL CBC	0.544	5.44			-	4.81	4.81
TOTAL CBD	0.000	0.000			-	0.000	0.000
TOTAL CBDV	0.000	0.000			-	0.000	0.000
TOTAL CBG	1.46	14.6			-	12.9	12.9
TOTAL CBN	0.000	0.000			-	0.000	0.000
TOTAL THC	29.2	292			-	258	258
TOTAL THCV	0.128	1.28			-	1.13	1.13



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 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
 Kyle W. Felling, Ph.D.
 Laboratory Director



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License: ADH 113	License: 00065C	6111H20250915KLP-3	Date Received: 10/23/2025
Cultivar (Strain) or Sample Description: Key Lime Pie			Date Completed: 10/27/2025

TERPENOID PROFILE

Analysis Date/Time: 10/24/2025 2025

Method: GC/MS

Deviations from SOP:

Analyst: KF

Instrument: Agilent 7890/5975

None

<u>Terpene</u>	<u>Result (ppm)</u>	<u>Result (%)</u>	<u>Terpene</u>	<u>Result (ppm)</u>	<u>Result (%)</u>
α-Bisabolol	628	0.0628	d-Limonene	2950	0.295
L-Borneol	ND	-	Linalool	3210	0.321
D-Borneol	107	0.0107	l-Menthone	ND	-
Camphene	121	0.0121	Menthol	93.8	0.00938
Camphor	ND	-	β-Myrcene	4730	0.473
δ-3-Carene	<LOQ	-	Nerol	90.2	0.00902
Carvacrol	ND	-	cis-Nerolidol	ND	-
Carvone	ND	-	trans-Nerolidol	338	0.0338
β-Caryophyllene	3350	0.335	Nootkatone	ND	-
Caryophyllene oxide	132	0.0132	cis-β-Ocimene	<LOQ	-
Cedrene	ND	-	trans-β-Ocimene	<LOQ	-
Cedrol	54.5	0.00545	Octyl acetate	ND	-
cis-Citral	ND	-	α-Phellandrene	<LOQ	-
trans-Citral	ND	-	Phytane	ND	-
Citronellol	ND	-	α-Pinene	399	0.0399
o-Cymene	ND	-	β-Pinene	542	0.0542
m-Cymene	ND	-	Piperitone	ND	-
p-Cymene	ND	-	Pulegone	ND	-
Eucalyptol	ND	-	Sabinene	294	0.0294
trans-β-Farnesene	117	0.0117	Sabinene hydrate	<LOQ	-
Farnesol 1	ND	-	Safranal	ND	-
Farnesol 2	609	0.0609	Squalene	128	0.0128
Fenchone	<LOQ	-	Terpinen-4-ol	<LOQ	-
Fenchyl alcohol	563	0.0563	α-Terpinene	<LOQ	-
Geraniol	147	0.0147	γ-Terpinene	<LOQ	-
Geranyl acetate	94.8	0.00948	α-Terpineol	531	0.0531
Guaiol	79.9	0.00799	Terpinolene	<LOQ	-
α-Humulene	1460	0.146	α-Thujone	385	0.0385
Isoborneol	<LOQ	-	Thymol	ND	-
Isobornyl acetate	ND	-	Valencene	97.8	0.00978
d-Isomenthone	ND	-	d-Valerolactam	ND	-
Isopulegol	80.1	0.00801	Verbenone	ND	-



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) 21300 (%) 2.13 **Reporting Limit (ppm):** 44.7

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Kyle W. Felling, Ph.D.
Laboratory Director



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA42459)

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: OR11861 Lot Number: M00065C13132021084 Production Run: 6111H20250915KLP-3	Sample Type: Primary Matrix: Flower Mass: 23g Date Collected: 10/23/2025 Date Received: 10/23/2025
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Cultivar (Strain) or Sample Description: Key Lime Pie

Date Completed: 10/27/2025

PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 10/24/2025 1556

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)	-	0.0446	0.357	0.5	Kresoxim-methyl (143390-89-0)	-	0.0446	0.357	0.4
Acephate (30560-19-1)	-	0.0446	0.357	0.4	Malathion (121-75-5)	-	0.0446	0.357	0.2
Acetaminophen (57960-19-7)	-	0.0446	0.357	2	Metalaxyl (57837-19-1)	-	0.0446	0.357	0.2
Acetamiprid (135410-20-7)	-	0.0446	0.357	0.2	Methiocarb (2032-65-7)	-	0.0446	0.357	0.2
Aldicarb (116-06-3)	-	0.0446	0.357	0.4	Methomyl (16752-77-5)	-	0.0446	0.357	0.4
Azoxystrobin (131860-33-8)	-	0.0446	0.357	0.2	Methyl parathion (298-0-0)	-	0.0446	0.357	0.2
Bifenazate (149877-41-8)	-	0.0446	0.357	0.2	MGK 264 (113-48-4)	-	0.0446	0.357	0.2
Bifenthrin (82657-04-3)	-	0.0446	0.357	0.2	Myclobutanil (88671-89-0)	-	0.0446	0.357	0.2
Boscalid (188425-85-6)	-	0.0446	0.357	0.4	Naled (300-76-5)	-	0.0446	0.357	0.5
Carbaryl (63-25-2)	-	0.0446	0.357	0.2	Oxamyl (23135-22-0)	-	0.0446	0.357	1
Carbofuran (1563-66-2)	-	0.0446	0.357	0.2	Paclobutrazol (76738-62-0)	-	0.0446	0.357	0.4
Chlorantraniliprole (800008-45-7)	-	0.0446	0.357	0.2	Permethrins (52645-53-1)	-	0.0446	0.357	0.2
Chlorfenapyr (122453-73-0)	-	0.0446	0.357	1	Phosmet (732-11-6)	-	0.0446	0.357	0.2
Chlorpyrifos (2921-88-2)	-	0.0446	0.357	0.2	Piperonyl butoxide (51-03-6)	-	0.0446	0.357	2
Clofentezine (74115-24-5)	-	0.0446	0.357	0.2	Prallethrin (2331-36-9)	-	0.0446	0.357	0.2
Cyfluthrin (68359-37-5)	-	0.0446	0.357	1	Propiconazole (60207-90-1)	-	0.0446	0.357	0.4
Cypermethrin (52315-07-8)	-	0.0446	0.357	1	Propoxur (114-26-1)	-	0.0446	0.357	0.2
Daminozide (1596-84-5)	-	0.0446	0.357	1	Pyrethrins (8003-34-7)	-	0.0446	0.357	1
DDVP (62-73-7)	-	0.0446	0.357	0.1	Pyridaben (96489-71-3)	-	0.0446	0.357	0.2
Diazinon (333-41-5)	-	0.0446	0.357	0.2	Spinosad (168316-95-8)	-	0.0446	0.357	0.2
Dimethoate (60-51-5)	-	0.0446	0.357	0.2	Spiromesifen (283594-90-1)	-	0.0446	0.357	0.2
Ethoprophos (13194-48-4)	-	0.0446	0.357	0.2	Spirotetramat (203313-25-1)	-	0.0446	0.357	0.2
Etofenprox (80844-07-1)	-	0.0446	0.357	0.4	Spiroxamine (118134-30-8)	-	0.0446	0.357	0.4
Etoxazole (153233-91-1)	-	0.0446	0.357	0.2	Tebuconazole (80443-41-0)	-	0.0446	0.357	0.4
Fenoxycarb (72490-01-8)	-	0.0446	0.357	0.2	Thiacloprid (111988-49-9)	-	0.0446	0.357	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0446	0.357	0.4	Thiamethoxam (153719-23-4)	-	0.0446	0.357	0.2
Fipronil (120068-37-3)	-	0.0446	0.357	0.4	Trifloxystrobin (141517-21-7)	-	0.0446	0.357	0.2
Flonicamid (158062-67-0)	-	0.0446	0.357	1					
Fludioxinil (131341-86-1)	-	0.0446	0.357	0.4					
Hexythiazox (78587-05-0)	-	0.0446	0.357	1					
Imazalil (35554-44-0)	-	0.0446	0.357	0.2					
Imidacloprid (138261-41-3)	-	0.0446	0.357	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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License: ADH 113	License: 00065C	6111H20250915KLP-3	Date Received: 10/23/2025
Cultivar (Strain) or Sample Description: Key Lime Pie			Date Completed: 10/27/2025

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

Analysis Date/Time: 10/24/2025 1629

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	57.9	91.7	200
Cadmium (Cd)	ND	57.9	91.7	200
Lead (Pb)	ND	57.9	91.7	500
Mercury (Hg)	ND	57.9	91.7	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: 10/24/2025 1502	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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