

SUMMARY OF ANALYSIS (SAMPLE ID: SA42458)

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	M00065C13134278319	Mass: 18g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 10/23/2025
License: ADH 113	License: 00065C	6111H20250915KLP-2	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 (%)

11.4

Water Activity (aw)

0.434 @ 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.

Cannabinoids (Top 3)	(%)	mg/g
THCA	30.4	304
CBGA	1.55	15.5
CBCA	0.556	5.56
TOTAL CBD	0.000	0.000
TOTAL THC	27.0	270
TOTAL CANNABINOIDS	33.0	330
Terpenes (Top 5)	(%)	ppm
β-Myrcene	0.451	4510
d-Limonene	0.344	3440
Linalool	0.324	3240
β-Caryophyllene	0.203	2030
α-Humulene	0.0910	910
TOTAL TERPENES	1.97	19700

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

Analysis Date/Time: 10/24/2025 1449
Analyst: PW
Method: HPLC/DAD
Instrument: Agilent 1100
Moisture Content (%): 11.4
Water Activity (aw): 0.434 @ 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	0.0398	0.0929	-	0.000	0.000
CBCA	0.556	5.56	0.124	0.289	-	4.93	4.93
CBD	ND	ND	0.281	0.656	-	0.000	0.000
CBDV	ND	ND	0.103	0.241	-	0.000	0.000
CBDVA	ND	ND	0.0451	0.105	-	0.000	0.000
CBDVA	ND	ND	0.120	0.280	-	0.000	0.000
CBG	DET	DET	0.182	0.426	-	0.000	0.000
CBGA	1.55	15.5	0.258	0.305	-	13.7	13.7
CBL	ND	ND	0.211	0.492	-	0.000	0.000
CBN	ND	ND	0.0967	0.226	-	0.000	0.000
CBNA	ND	ND	0.104	0.243	-	0.000	0.000
Δ9-THC	0.384	3.84	0.116	0.270	-	3.40	3.40
Δ8-THC	ND	ND	0.181	0.422	-	0.000	0.000
THCA	30.4	304	0.0629	0.147	-	269	269
THCV	ND	ND	0.151	0.352	-	0.000	0.000
THCVA	0.139	1.39	0.0482	0.112	-	1.23	1.23
TOTAL	33.0	330			-	292	292
TOTAL CBC	0.488	4.88			-	4.32	4.32
TOTAL CBD	0.000	0.000			-	0.000	0.000
TOTAL CBDV	0.000	0.000			-	0.000	0.000
TOTAL CBG	1.35	13.5			-	12.0	12.0
TOTAL CBN	0.000	0.000			-	0.000	0.000
TOTAL THC	27.0	270			-	239	239
TOTAL THCV	0.121	1.21			-	1.07	1.07



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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TERPENOID PROFILE

Analysis Date/Time: 10/24/2025 1926

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	415	0.0415	d-Limonene	3440	0.344
L-Borneol	ND	-	Linalool	3240	0.324
D-Borneol	109	0.0109	l-Menthone	ND	-
Camphene	140	0.0140	Menthol	91.8	0.00918
Camphor	ND	-	β-Myrcene	4510	0.451
δ-3-Carene	<LOQ	-	Nerol	85.2	0.00852
Carvacrol	ND	-	cis-Nerolidol	ND	-
Carvone	ND	-	trans-Nerolidol	233	0.0233
β-Caryophyllene	2030	0.203	Nootkatone	ND	-
Caryophyllene oxide	103	0.0103	cis-β-Ocimene	<LOQ	-
Cedrene	ND	-	trans-β-Ocimene	<LOQ	-
Cedrol	52.3	0.00523	Octyl acetate	ND	-
cis-Citral	ND	-	α-Phellandrene	<LOQ	-
trans-Citral	ND	-	Phytane	ND	-
Citronellol	ND	-	α-Pinene	455	0.0455
o-Cymene	ND	-	β-Pinene	629	0.0629
m-Cymene	ND	-	Piperitone	ND	-
p-Cymene	ND	-	Pulegone	ND	-
Eucalyptol	ND	-	Sabinene	338	0.0338
trans-β-Farnesene	100	0.0100	Sabinene hydrate	<LOQ	-
Farnesol 1	ND	-	Safranal	ND	-
Farnesol 2	525	0.0525	Squalene	116	0.0116
Fenchone	<LOQ	-	Terpinen-4-ol	<LOQ	-
Fenchyl alcohol	627	0.0627	α-Terpinene	<LOQ	-
Geraniol	183	0.0183	γ-Terpinene	<LOQ	-
Geranyl acetate	99.9	0.00999	α-Terpineol	555	0.0555
Guaiol	78.8	0.00788	Terpinolene	48.6	0.00486
α-Humulene	910	0.0910	α-Thujone	386	0.0386
Isoborneol	<LOQ	-	Thymol	ND	-
Isobornyl acetate	ND	-	Valencene	77.0	0.00770
d-Isomenthone	ND	-	d-Valerolactam	ND	-
Isopulegol	85.0	0.00850	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) 19700 (%) 1.97 **Reporting Limit (ppm):** 43.7

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PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 10/24/2025 1541

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)	-	0.0435	0.348	0.5	Kresoxim-methyl (143390-89-0)	-	0.0435	0.348	0.4
Acephate (30560-19-1)	-	0.0435	0.348	0.4	Malathion (121-75-5)	-	0.0435	0.348	0.2
Acetaminophen (57960-19-7)	-	0.0435	0.348	2	Metalaxyl (57837-19-1)	-	0.0435	0.348	0.2
Acetamiprid (135410-20-7)	-	0.0435	0.348	0.2	Methiocarb (2032-65-7)	-	0.0435	0.348	0.2
Aldicarb (116-06-3)	-	0.0435	0.348	0.4	Methomyl (16752-77-5)	-	0.0435	0.348	0.4
Azoxystrobin (131860-33-8)	-	0.0435	0.348	0.2	Methyl parathion (298-0-0)	-	0.0435	0.348	0.2
Bifenazate (149877-41-8)	-	0.0435	0.348	0.2	MGK 264 (113-48-4)	-	0.0435	0.348	0.2
Bifenthrin (82657-04-3)	-	0.0435	0.348	0.2	Myclobutanil (88671-89-0)	-	0.0435	0.348	0.2
Boscalid (188425-85-6)	-	0.0435	0.348	0.4	Naled (300-76-5)	-	0.0435	0.348	0.5
Carbaryl (63-25-2)	-	0.0435	0.348	0.2	Oxamyl (23135-22-0)	-	0.0435	0.348	1
Carbofuran (1563-66-2)	-	0.0435	0.348	0.2	Paclobutrazol (76738-62-0)	-	0.0435	0.348	0.4
Chlorantraniliprole (800008-45-7)	-	0.0435	0.348	0.2	Permethrins (52645-53-1)	-	0.0435	0.348	0.2
Chlorfenapyr (122453-73-0)	-	0.0435	0.348	1	Phosmet (732-11-6)	-	0.0435	0.348	0.2
Chlorpyrifos (2921-88-2)	-	0.0435	0.348	0.2	Piperonyl butoxide (51-03-6)	-	0.0435	0.348	2
Clofentezine (74115-24-5)	-	0.0435	0.348	0.2	Prallethrin (2331-36-9)	-	0.0435	0.348	0.2
Cyfluthrin (68359-37-5)	-	0.0435	0.348	1	Propiconazole (60207-90-1)	-	0.0435	0.348	0.4
Cypermethrin (52315-07-8)	-	0.0435	0.348	1	Propoxur (114-26-1)	-	0.0435	0.348	0.2
Daminozide (1596-84-5)	-	0.0435	0.348	1	Pyrethrins (8003-34-7)	-	0.0435	0.348	1
DDVP (62-73-7)	-	0.0435	0.348	0.1	Pyridaben (96489-71-3)	-	0.0435	0.348	0.2
Diazinon (333-41-5)	-	0.0435	0.348	0.2	Spinosad (168316-95-8)	-	0.0435	0.348	0.2
Dimethoate (60-51-5)	-	0.0435	0.348	0.2	Spiromesifen (283594-90-1)	-	0.0435	0.348	0.2
Ethoprophos (13194-48-4)	-	0.0435	0.348	0.2	Spirotetramat (203313-25-1)	-	0.0435	0.348	0.2
Etofenprox (80844-07-1)	-	0.0435	0.348	0.4	Spiroxamine (118134-30-8)	-	0.0435	0.348	0.4
Etoxazole (153233-91-1)	-	0.0435	0.348	0.2	Tebuconazole (80443-41-0)	-	0.0435	0.348	0.4
Fenoxycarb (72490-01-8)	-	0.0435	0.348	0.2	Thiacloprid (111988-49-9)	-	0.0435	0.348	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0435	0.348	0.4	Thiamethoxam (153719-23-4)	-	0.0435	0.348	0.2
Fipronil (120068-37-3)	-	0.0435	0.348	0.4	Trifloxystrobin (141517-21-7)	-	0.0435	0.348	0.2
Flonicamid (158062-67-0)	-	0.0435	0.348	1					
Fludioxinil (131341-86-1)	-	0.0435	0.348	0.4					
Hexythiazox (78587-05-0)	-	0.0435	0.348	1					
Imazalil (35554-44-0)	-	0.0435	0.348	0.2					
Imidacloprid (138261-41-3)	-	0.0435	0.348	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: 10/24/2025 1625

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	58.8	93.2	200
Cadmium (Cd)	ND	58.8	93.2	200
Lead (Pb)	ND	58.8	93.2	500
Mercury (Hg)	ND	58.8	93.2	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	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

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