

**SUMMARY OF ANALYSIS (SAMPLE ID: SA38320)**

<b>Testing Location:</b> Arkansas 232 S. Broadview St. Greenbrier, AR 72058 License: ADH 113	<b>Customer ID:</b> 2161 River Valley Relief Cultivation 5601 Old Greenwood Rd Suite C Fort Smith, AR 72903 License: 00065C	<b>Order ID:</b> OR11092 <b>Lot Number:</b> M00065C13135904551 <b>Production Run:</b> 4067H20240613KLP-1	<b>Sample Type:</b> Primary <b>Matrix:</b> Flower <b>Mass:</b> 23g <b>Date Collected:</b> 07/08/2024 <b>Date Received:</b> 07/08/2024 <b>Date Completed:</b> 07/10/2024
<b>Cultivar (Strain) or Sample Description:</b> Key Lime Pie			

\*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 (%)**

11.6

**Water Activity (aw)**

0.461 @ 24.2°C

**PASS/FAIL**

**PASS**

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

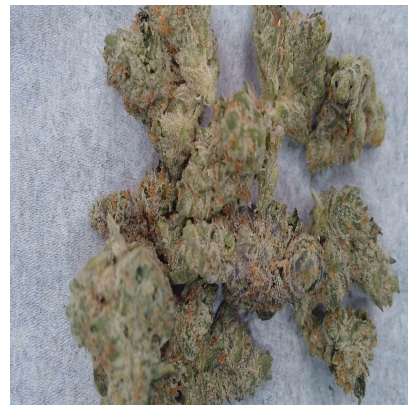
Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

<b>Cannabinoids (Top 3)</b>	<b>(%)</b>	<b>mg/g</b>
THCA	29.5	295
CBGA	1.40	14.0
CBCA	0.801	8.01
TOTAL CBD	-	-
TOTAL THC	26.4	264
TOTAL CANNABINOIDS	32.5	325

<b>Terpenes (Top 5)</b>	<b>(%)</b>	<b>µg/g</b>
β-Myrcene	0.766	7660
β-Caryophyllene	0.624	6240
d-Limonene	0.469	4690
Linalool	0.356	3560
α-Humulene	0.259	2590
TOTAL TERPENES	2.95	29500

<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



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<b>Cultivar (Strain) or Sample Description:</b> Key Lime Pie			<b>Date Completed:</b> 07/10/2024

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

**Analysis Date/Time:** 07/09/2024 1500      **Method:** HPLC/DAD      **Moisture Content (%):** 11.6  
**Analyst:** PW      **Instrument:** Agilent 1100      **Water Activity (aw):** 0.461 @ 24.2°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	0.0423	0.0987	-	-	-
CBCA	0.801	8.01	0.131	0.306	-	7.08	7.08
CBD	ND	ND	0.298	0.696	-	-	-
CBDV	ND	ND	0.0479	0.112	-	-	-
CBDVA	ND	ND	0.128	0.298	-	-	-
CBG	0.0965	0.965	0.194	0.452	-	0.853	0.853
CBGA	1.40	14.0	0.275	0.324	-	12.4	12.4
CBL	ND	ND	0.224	0.522	-	-	-
CBN	ND	ND	0.103	0.240	-	-	-
CBNA	ND	ND	0.111	0.259	-	-	-
Δ9-THC	0.475	4.75	0.123	0.287	-	4.20	4.20
Δ8-THC	ND	ND	0.192	0.449	-	-	-
THCA	29.5	295	0.0668	0.156	-	261	261
THCV	ND	ND	0.160	0.374	-	-	-
THCVA	0.153	1.53	0.0512	0.119	-	1.35	1.35
<b>TOTAL</b>	<b>32.5</b>	<b>325</b>				<b>287</b>	<b>287</b>
<b>TOTAL CBC</b>	<b>0.703</b>	<b>7.03</b>				<b>6.21</b>	<b>6.21</b>
<b>TOTAL CBD</b>	<b>-</b>	<b>-</b>				<b>-</b>	<b>-</b>
<b>TOTAL CBDV</b>	<b>-</b>	<b>-</b>				<b>-</b>	<b>-</b>
<b>TOTAL CBG</b>	<b>1.33</b>	<b>13.3</b>				<b>11.7</b>	<b>11.7</b>
<b>TOTAL CBN</b>	<b>-</b>	<b>-</b>				<b>-</b>	<b>-</b>
<b>TOTAL THC</b>	<b>26.4</b>	<b>264</b>				<b>233</b>	<b>233</b>
<b>TOTAL THCV</b>	<b>0.133</b>	<b>1.33</b>				<b>1.17</b>	<b>1.17</b>



**SERVING MASS (g):** 1.00  
**SERVINGS/UNIT:** 1

"-" Not detected above LOD.

*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) + THCVA

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, UM - Measurement Uncertainty

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<b>Cultivar (Strain) or Sample Description:</b> Key Lime Pie			<b>Date Completed:</b> 07/10/2024

**TERPENOID PROFILE**

**Analysis Date/Time:** 07/09/2024 1655  
**Analyst:** KF

**Method:** GC/MS  
**Instrument:** Agilent 7890/5975

**Deviations from SOP:**  
None

<u>Terpene</u>	<u>Result (µg/g)</u>	<u>Result (%)</u>	
α-Bisabolol	687	0.0687	█
Camphene	181	0.0181	█
δ-3-Carene	ND	-	
β-Caryophyllene	6240	0.624	█
Caryophyllene oxide	188	0.0188	█
p-Cymene	ND	-	
Eucalyptol	ND	-	
Geraniol	175	0.0175	█
Guaiol	ND	-	
α-Humulene	2590	0.259	█
Isopulegol	ND	-	
d-Limonene	4690	0.469	█
Linalool	3560	0.356	█
β-Myrcene	7660	0.766	█
cis-Nerolidol	ND	-	
trans-Nerolidol	1570	0.157	█
α-Ocimene	57.5	0.00575	█
β-Ocimene	124	0.0124	█
α-Pinene	583	0.0583	█
β-Pinene	1170	0.117	█
α-Terpinene	ND	-	
γ-Terpinene	ND	-	
Terpinolene	62.5	0.00625	█
<b>TOTAL</b>	<b>29500</b>	<b>2.95</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): 46.4**

"-" Not detected above LOD.

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<b>Cultivar (Strain) or Sample Description:</b> Key Lime Pie			<b>Date Completed:</b> 07/10/2024

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

**Analysis Date/Time:** 07/09/2024 1450  
**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)	-	0.0461	0.369	0.5	Kresoxim-methyl (143390-89-0)	-	0.0461	0.369	0.4
Acephate (30560-19-1)	-	0.0461	0.369	0.4	Malathion (121-75-5)	-	0.0461	0.369	0.2
Acetamiprid (135410-20-7)	-	0.0461	0.369	0.2	Metalaxyl (57837-19-1)	-	0.0461	0.369	0.2
Aldicarb (116-06-3)	-	0.0461	0.369	0.4	Methiocarb (2032-65-7)	-	0.0461	0.369	0.2
Azoxystrobin (131860-33-8)	-	0.0461	0.369	0.2	Methomyl (16752-77-5)	-	0.0461	0.369	0.4
Bifenazate (149877-41-8)	-	0.0461	0.369	0.2	Methyl parathion (298-0-0)	-	0.0461	0.369	0.2
Bifenthrin (82657-04-3)	-	0.0461	0.369	0.2	MGK 264 (113-48-4)	-	0.0461	0.369	0.2
Boscalid (188425-85-6)	-	0.0461	0.369	0.4	Myclobutanil (88671-89-0)	-	0.0461	0.369	0.2
Carbaryl (63-25-2)	-	0.0461	0.369	0.2	Naled (300-76-5)	-	0.0461	0.369	0.5
Carbofuran (1563-66-2)	-	0.0461	0.369	0.2	Oxamyl (23135-22-0)	-	0.0461	0.369	1
Chlorantraniliprole (800008-45-7)	-	0.0461	0.369	0.2	Pacllobutrazol (76738-62-0)	-	0.0461	0.369	0.4
Chlorfenapyr (122453-73-0)	-	0.0461	0.369	1	Permethrins (52645-53-1)	-	0.0461	0.369	0.2
Chlorpyrifos (2921-88-2)	-	0.0461	0.369	0.2	Phosmet (732-11-6)	-	0.0461	0.369	0.2
Clofentezine (74115-24-5)	-	0.0461	0.369	0.2	Piperonyl butoxide (51-03-6)	-	0.0461	0.369	2
Cyfluthrin (68359-37-5)	-	0.0461	0.369	1	Prallethrins (2331-36-9)	-	0.0461	0.369	0.2
Cypermethrin (52315-07-8)	-	0.0461	0.369	1	Propiconazole (60207-90-1))	-	0.0461	0.369	0.4
Daminozide (1596-84-5)	-	0.0461	0.369	1	Propoxur (114-26-1)	-	0.0461	0.369	0.2
DDVP (62-73-7)	-	0.0461	0.369	0.1	Pyrethrins (8003-34-7)	-	0.0461	0.369	1
Diazinon (333-41-5)	-	0.0461	0.369	0.2	Pyridaben (96489-71-3)	-	0.0461	0.369	0.2
Dimethoate (60-51-5)	-	0.0461	0.369	0.2	Spinosad (168316-95-8)	-	0.0461	0.369	0.2
Ethoprophos (13194-48-4)	-	0.0461	0.369	0.2	Spiromesifen (283594-90-1)	-	0.0461	0.369	0.2
Etofenprox (80844-07-1)	-	0.0461	0.369	0.4	Spirotetramat (203313-25-1)	-	0.0461	0.369	0.2
Etoxazole (153233-91-1)	-	0.0461	0.369	0.2	Spiroxamine (118134-30-8)	-	0.0461	0.369	0.4
Fenoxycarb (72490-01-8)	-	0.0461	0.369	0.2	Tebuconazole (80443-41-0)	-	0.0461	0.369	0.4
(E)-Fenpyroximate (134098-61-6)	-	0.0461	0.369	0.4	Thiacloprid (111988-49-9)	-	0.0461	0.369	0.2
Fipronil (120068-37-3)	-	0.0461	0.369	0.4	Thiamethoxam (153719-23-4)	-	0.0461	0.369	0.2
Fonicamid (158062-67-0)	-	0.0461	0.369	1	Trifloxystrobin (141517-21-7)	-	0.0461	0.369	0.2
Fludioxinil (131341-86-1)	-	0.0461	0.369	0.4					
Hexythiazox (78587-05-0)	-	0.0461	0.369	1					
Imazalil (35554-44-0)	-	0.0461	0.369	0.2					
Imidacloprid (138261-41-3)	-	0.0461	0.369	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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<b>Cultivar (Strain) or Sample Description:</b> Key Lime Pie			<b>Date Completed:</b> 07/10/2024

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

<b>Analysis Date/Time:</b> 07/09/2024 1544	<b>Method:</b> ICP/MS <b>Instrument:</b> Agilent 7500ce	<b>Deviations from SOP:</b> None
<b>Analyst:</b> KF		

<u>Heavy Metal</u>	<u>Result (µg/kg)</u>	<u>LOD (µg/kg)</u>	<u>LOQ (µg/kg)</u>	<u>Action Level (µg/kg)</u>
Arsenic (As)	-	58.0	91.8	200
Cadmium (Cd)	-	58.0	91.8	200
Lead (Pb)	-	58.0	91.8	500
Mercury (Hg)	-	58.0	91.8	100



Abbreviations: ICP - Inductively-Coupled Plasma, OES - Optical Emission Spectroscopy, DMA - Direct Mercury Analyzer, 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

"-" not detected above LOD

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

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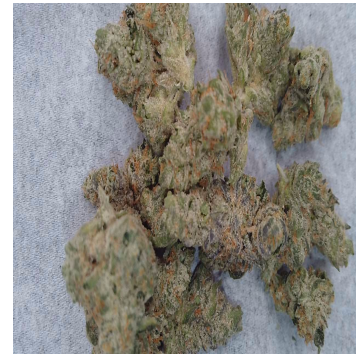
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<b>Cultivar (Strain) or Sample Description:</b> Key Lime Pie			

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

**Analysis Date/Time:** 07/09/2024 1424      **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** (Green background)

**RESULT > AL** (Red background)

**Reporting Limit (CFU/g)**  
1

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