

SUMMARY OF ANALYSIS (SAMPLE ID: SA38315)

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: OR11092 Lot Number: M00065C13137104682 Production Run: 4067H20240613KLP-6	Sample Type: Primary Matrix: Flower Mass: 16g Date Collected: 07/08/2024 Date Received: 07/08/2024 Date Completed: 07/10/2024
Cultivar (Strain) or Sample Description: 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)

0.462 @ 24.0°C

PASS/FAIL

PASS

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

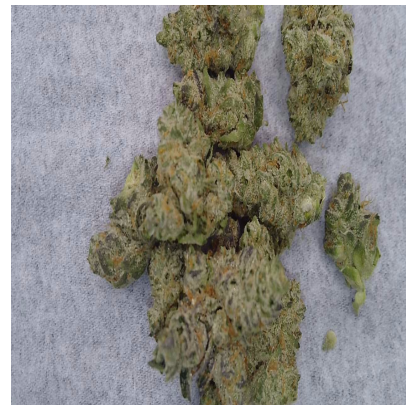
Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

Cannabinoids (Top 3)	(%)	mg/g
THCA	29.0	290
CBCA	1.55	15.5
CBGA	1.13	11.3
TOTAL CBD	-	-
TOTAL THC	25.9	259
TOTAL CANNABINOIDS	32.3	323

Terpenes (Top 5)	(%)	µg/g
β-Myrcene	0.650	6500
β-Caryophyllene	0.475	4750
d-Limonene	0.384	3840
Linalool	0.319	3190
α-Humulene	0.221	2210
TOTAL TERPENES	2.32	23200

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
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Laboratory Director

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

Analysis Date/Time: 07/09/2024 1342 **Method:** HPLC/DAD **Moisture Content (%):** 11.6
Analyst: PW **Instrument:** Agilent 1100 **Water Activity (aw):** 0.462 @ 24.0°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	0.0431	0.100	-	-	-
CBCA	1.55	15.5	0.134	0.312	-	13.7	13.7
CBD	ND	ND	0.304	0.709	-	-	-
CBDa	ND	ND	0.112	0.261	-	-	-
CBDV	ND	ND	0.0487	0.114	-	-	-
CBDVA	ND	ND	0.130	0.303	-	-	-
CBG	ND	ND	0.197	0.460	-	-	-
CBGA	1.13	11.3	0.279	0.330	-	10.0	10.0
CBL	ND	ND	0.228	0.532	-	-	-
CBN	ND	ND	0.105	0.244	-	-	-
CBNA	ND	ND	0.113	0.263	-	-	-
Δ9-THC	0.433	4.33	0.125	0.292	-	3.83	3.83
Δ8-THC	ND	ND	0.196	0.457	-	-	-
THCA	29.0	290	0.0680	0.159	-	256	256
THCV	ND	ND	0.163	0.380	-	-	-
THCVA	0.160	1.60	0.0521	0.121	-	1.41	1.41
TOTAL	32.3	323				285	285
TOTAL CBC	1.36	13.6				12.1	12.1
TOTAL CBD	-	-				-	-
TOTAL CBDV	-	-				-	-
TOTAL CBG	0.995	9.95				8.80	8.80
TOTAL CBN	-	-				-	-
TOTAL THC	25.9	259				229	229
TOTAL THCv	0.139	1.39				1.23	1.23



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 = (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, UM - Measurement Uncertainty

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

TERPENOID PROFILE

Analysis Date/Time: 07/09/2024 1436
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	590	0.0590	█
Camphene	162	0.0162	█
δ-3-Carene	ND	-	
β-Caryophyllene	4750	0.475	█
Caryophyllene oxide	110	0.0110	█
p-Cymene	ND	-	
Eucalyptol	ND	-	
Geraniol	129	0.0129	█
Guaiol	ND	-	
α-Humulene	2210	0.221	█
Isopulegol	ND	-	
d-Limonene	3840	0.384	█
Linalool	3190	0.319	█
β-Myrcene	6500	0.650	█
cis-Nerolidol	ND	-	
trans-Nerolidol	ND	-	
α-Ocimene	<LOQ	-	
β-Ocimene	114	0.0114	█
α-Pinene	536	0.0536	█
β-Pinene	1090	0.109	█
α-Terpinene	ND	-	
γ-Terpinene	ND	-	
Terpinolene	<LOQ	-	
TOTAL	23200	2.32	



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): 47.2

"-" Not detected above LOD.

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PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 07/09/2024 1317
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)	-	0.0471	0.377	0.5	Kresoxim-methyl (143390-89-0)	-	0.0471	0.377	0.4
Acephate (30560-19-1)	-	0.0471	0.377	0.4	Malathion (121-75-5)	-	0.0471	0.377	0.2
Acetamiprid (135410-20-7)	-	0.0471	0.377	0.2	Metalaxyl (57837-19-1)	-	0.0471	0.377	0.2
Aldicarb (116-06-3)	-	0.0471	0.377	0.4	Methiocarb (2032-65-7)	-	0.0471	0.377	0.2
Azoxystrobin (131860-33-8)	-	0.0471	0.377	0.2	Methomyl (16752-77-5)	-	0.0471	0.377	0.4
Bifenazate (149877-41-8)	-	0.0471	0.377	0.2	Methyl parathion (298-0-0)	-	0.0471	0.377	0.2
Bifenthrin (82657-04-3)	-	0.0471	0.377	0.2	MGK 264 (113-48-4)	-	0.0471	0.377	0.2
Boscalid (188425-85-6)	-	0.0471	0.377	0.4	Myclobutanil (88671-89-0)	-	0.0471	0.377	0.2
Carbaryl (63-25-2)	-	0.0471	0.377	0.2	Naled (300-76-5)	-	0.0471	0.377	0.5
Carbofuran (1563-66-2)	-	0.0471	0.377	0.2	Oxamyl (23135-22-0)	-	0.0471	0.377	1
Chlorantraniliprole (800008-45-7)	-	0.0471	0.377	0.2	Pacllobutrazol (76738-62-0)	-	0.0471	0.377	0.4
Chlorfenapyr (122453-73-0)	-	0.0471	0.377	1	Permethrins (52645-53-1)	-	0.0471	0.377	0.2
Chlorpyrifos (2921-88-2)	-	0.0471	0.377	0.2	Phosmet (732-11-6)	-	0.0471	0.377	0.2
Clofentezine (74115-24-5)	-	0.0471	0.377	0.2	Piperonyl butoxide (51-03-6)	-	0.0471	0.377	2
Cyfluthrin (68359-37-5)	-	0.0471	0.377	1	Prallethrins (2331-36-9)	-	0.0471	0.377	0.2
Cypermethrin (52315-07-8)	-	0.0471	0.377	1	Propiconazole (60207-90-1)	-	0.0471	0.377	0.4
Daminozide (1596-84-5)	-	0.0471	0.377	1	Propoxur (114-26-1)	-	0.0471	0.377	0.2
DDVP (62-73-7)	-	0.0471	0.377	0.1	Pyrethrins (8003-34-7)	-	0.0471	0.377	1
Diazinon (333-41-5)	-	0.0471	0.377	0.2	Pyridaben (96489-71-3)	-	0.0471	0.377	0.2
Dimethoate (60-51-5)	-	0.0471	0.377	0.2	Spinosad (168316-95-8)	-	0.0471	0.377	0.2
Ethoprophos (13194-48-4)	-	0.0471	0.377	0.2	Spiromesifen (283594-90-1)	-	0.0471	0.377	0.2
Etofenprox (80844-07-1)	-	0.0471	0.377	0.4	Spirotetramat (203313-25-1)	-	0.0471	0.377	0.2
Etoxazole (153233-91-1)	-	0.0471	0.377	0.2	Spiroxamine (118134-30-8)	-	0.0471	0.377	0.4
Fenoxycarb (72490-01-8)	-	0.0471	0.377	0.2	Tebuconazole (80443-41-0)	-	0.0471	0.377	0.4
(E)-Fenpyroximate (134098-61-6)	-	0.0471	0.377	0.4	Thiacloprid (111988-49-9)	-	0.0471	0.377	0.2
Fipronil (120068-37-3)	-	0.0471	0.377	0.4	Thiamethoxam (153719-23-4)	-	0.0471	0.377	0.2
Fonicamid (158062-67-0)	-	0.0471	0.377	1	Trifloxystrobin (141517-21-7)	-	0.0471	0.377	0.2
Fludioxinil (131341-86-1)	-	0.0471	0.377	0.4					
Hexythiazox (78587-05-0)	-	0.0471	0.377	1					
Imazalil (35554-44-0)	-	0.0471	0.377	0.2					
Imidacloprid (138261-41-3)	-	0.0471	0.377	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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Cultivar (Strain) or Sample Description: Key Lime Pie			Date Completed: 07/10/2024

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

Analysis Date/Time: 07/09/2024 1459	Method: ICP/MS Instrument: Agilent 7500ce	Deviations from SOP: None
Analyst: 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)	-	57.6	91.2	200
Cadmium (Cd)	-	57.6	91.2	200
Lead (Pb)	-	57.6	91.2	500
Mercury (Hg)	-	57.6	91.2	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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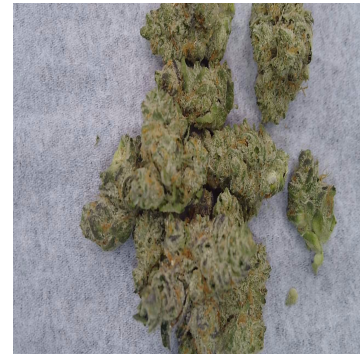
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MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

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

RESULT > AL

Reporting Limit (CFU/g)
1

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