

SUMMARY OF ANALYSIS (SAMPLE ID: SA37145)

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: OR10871 Lot Number: M00065C13130010569 Production Run: 4053H20240103KLP-1	Sample Type: Primary Matrix: Flower Mass: 19g Date Collected: 02/19/2024 Date Received: 02/19/2024 Date Completed: 02/20/2024
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 (%)

11.0

Water Activity (aw)

0.366 @ 24.3°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
CBGA	1.51	15.1
Δ9-THC	0.297	2.97
TOTAL CBD	-	-
TOTAL THC	25.7	257
TOTAL CANNABINOIDS	31.0	310

Terpenes (Top 5)	(%)	µg/g
β-Myrcene	0.463	4630
d-Limonene	0.430	4300
Linalool	0.152	1520
β-Pinene	0.0959	959
α-Pinene	0.0681	681
TOTAL TERPENES	1.30	13000

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



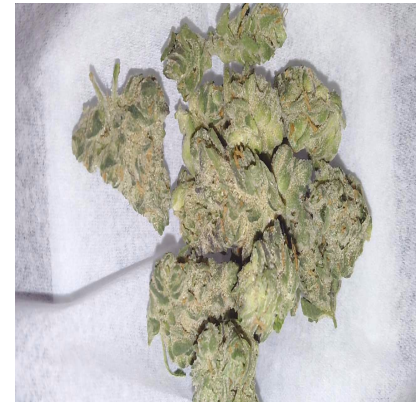
CERTIFICATE OF ANALYSIS (SAMPLE ID: SA37145)

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

Analysis Date/Time: 02/20/2024 1432 **Method:** HPLC/DAD **Moisture Content (%):** 11.0
Analyst: PW **Instrument:** Agilent 1100 **Water Activity (aw):** 0.366 @ 24.3°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	0.0447	0.104	-	-	-
CBCA	ND	ND	0.139	0.324	-	-	-
CBD	ND	ND	0.315	0.735	-	-	-
CBDV	ND	ND	0.116	0.271	-	-	-
CBDVA	ND	ND	0.135	0.315	-	-	-
CBG	0.0555	0.555	0.204	0.477	-	0.494	0.494
CBGA	1.51	15.1	0.290	0.342	-	13.4	13.4
CBL	ND	ND	0.236	0.551	-	-	-
CBN	ND	ND	0.108	0.253	-	-	-
CBNA	ND	ND	0.117	0.273	-	-	-
Δ9-THC	0.297	2.97	0.130	0.303	-	2.64	2.64
Δ8-THC	ND	ND	0.203	0.474	-	-	-
THCA	29.0	290	0.0705	0.165	-	258	258
THCV	ND	ND	0.169	0.394	-	-	-
THCVA	0.120	1.20	0.0541	0.126	-	1.07	1.07
TOTAL	31.0	310				276	276
TOTAL CBC	-	-				-	-
TOTAL CBD	-	-				-	-
TOTAL CBDV	-	-				-	-
TOTAL CBG	1.38	13.8				12.3	12.3
TOTAL CBN	-	-				-	-
TOTAL THC	25.7	257				229	229
TOTAL THC V	0.104	1.04				0.925	0.925



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 THC V = (THCVA x 0.867) + THC V

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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Laboratory Director



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Cultivar (Strain) or Sample Description: Key Lime Pie			Date Completed: 02/20/2024

TERPENOID PROFILE

Analysis Date/Time: 02/20/2024 0539
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	18.7	0.00187	
Camphene	179	0.0179	
δ-3-Carene	ND	-	
β-Caryophyllene	353	0.0353	
Caryophyllene oxide	15.4	0.00154	
p-Cymene	23.6	0.00236	
Eucalyptol	ND	-	
Geraniol	ND	-	
Guaiol	6.59	0.000659	
α-Humulene	145	0.0145	
Isopulegol	ND	-	
d-Limonene	4300	0.430	
Linalool	1520	0.152	
β-Myrcene	4630	0.463	
cis-Nerolidol	ND	-	
trans-Nerolidol	24.7	0.00247	
α-Ocimene	ND	-	
β-Ocimene	93.4	0.00934	
α-Pinene	681	0.0681	
β-Pinene	959	0.0959	
α-Terpinene	ND	-	
γ-Terpinene	ND	-	
Terpinolene	47.3	0.00473	
TOTAL	13000	1.30	



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): 1.37

"-" Not detected above LOD.

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PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 02/20/2024 1423
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)	-	0.0486	0.389	0.5	Kresoxim-methyl (143390-89-0)	-	0.0486	0.389	0.4
Acephate (30560-19-1)	-	0.0486	0.389	0.4	Malathion (121-75-5)	-	0.0486	0.389	0.2
Acetamiprid (135410-20-7)	-	0.0486	0.389	0.2	Metalaxyl (57837-19-1)	-	0.0486	0.389	0.2
Aldicarb (116-06-3)	-	0.0486	0.389	0.4	Methiocarb (2032-65-7)	-	0.0486	0.389	0.2
Azoxystrobin (131860-33-8)	-	0.0486	0.389	0.2	Methomyl (16752-77-5)	-	0.0486	0.389	0.4
Bifenazate (149877-41-8)	-	0.0486	0.389	0.2	Methyl parathion (298-0-0)	-	0.0486	0.389	0.2
Bifenthrin (82657-04-3)	-	0.0486	0.389	0.2	MGK 264 (113-48-4)	-	0.0486	0.389	0.2
Boscalid (188425-85-6)	-	0.0486	0.389	0.4	Myclobutanil (88671-89-0)	-	0.0486	0.389	0.2
Carbaryl (63-25-2)	-	0.0486	0.389	0.2	Naled (300-76-5)	-	0.0486	0.389	0.5
Carbofuran (1563-66-2)	-	0.0486	0.389	0.2	Oxamyl (23135-22-0)	-	0.0486	0.389	1
Chlorantraniliprole (800008-45-7)	-	0.0486	0.389	0.2	Paclobutrazol (76738-62-0)	-	0.0486	0.389	0.4
Chlorfenapyr (122453-73-0)	-	0.0486	0.389	1	Permethrins (52645-53-1)	-	0.0486	0.389	0.2
Chlorpyrifos (2921-88-2)	-	0.0486	0.389	0.2	Phosmet (732-11-6)	-	0.0486	0.389	0.2
Clofentezine (74115-24-5)	-	0.0486	0.389	0.2	Piperonyl butoxide (51-03-6)	-	0.0486	0.389	2
Cyfluthrin (68359-37-5)	-	0.0486	0.389	1	Prallethrins (2331-36-9)	-	0.0486	0.389	0.2
Cypermethrin (52315-07-8)	-	0.0486	0.389	1	Propiconazole (60207-90-1))	-	0.0486	0.389	0.4
Daminozide (1596-84-5)	-	0.0486	0.389	1	Propoxur (114-26-1)	-	0.0486	0.389	0.2
DDVP (62-73-7)	-	0.0486	0.389	0.1	Pyrethrins (8003-34-7)	-	0.0486	0.389	1
Diazinon (333-41-5)	-	0.0486	0.389	0.2	Pyridaben (96489-71-3)	-	0.0486	0.389	0.2
Dimethoate (60-51-5)	-	0.0486	0.389	0.2	Spinosad (168316-95-8)	-	0.0486	0.389	0.2
Ethoprophos (13194-48-4)	-	0.0486	0.389	0.2	Spiromesifen (283594-90-1)	-	0.0486	0.389	0.2
Etofenprox (80844-07-1)	-	0.0486	0.389	0.4	Spirotetramat (203313-25-1)	-	0.0486	0.389	0.2
Etoxazole (153233-91-1)	-	0.0486	0.389	0.2	Spiroxamine (118134-30-8)	-	0.0486	0.389	0.4
Fenoxycarb (72490-01-8)	-	0.0486	0.389	0.2	Tebuconazole (80443-41-0)	-	0.0486	0.389	0.4
(E)-Fenpyroximate (134098-61-6)	-	0.0486	0.389	0.4	Thiacloprid (111988-49-9)	-	0.0486	0.389	0.2
Fipronil (120068-37-3)	-	0.0486	0.389	0.4	Thiamethoxam (153719-23-4)	-	0.0486	0.389	0.2
Fonicamid (158062-67-0)	-	0.0486	0.389	1	Trifloxystrobin (141517-21-7)	-	0.0486	0.389	0.2
Fludioxinil (131341-86-1)	-	0.0486	0.389	0.4					
Hexythiazox (78587-05-0)	-	0.0486	0.389	1					
Imazalil (35554-44-0)	-	0.0486	0.389	0.2					
Imidacloprid (138261-41-3)	-	0.0486	0.389	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			

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

Analysis Date/Time: 02/20/2024 1845 (ICP/OES) **Method:** ICP/MS **Deviations from SOP:**
Analysis Date/Time: - (DMA) **Instrument:** Agilent 7500ce 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)	-	58.7	93.0	200
Cadmium (Cd)	-	58.7	93.0	200
Lead (Pb)	-	58.7	93.0	500
Mercury (Hg)	-	58.7	93.0	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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MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 02/20/2024 1431 **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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