

SUMMARY OF ANALYSIS (SAMPLE ID: SA32312)

Testing Location:	Customer ID: 2161	Order ID: OR10017	Sample Type: Primary
Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix: Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13133674784	Mass: 16g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 09/07/2022
License: ADH 113	License: 00065C	7007H20220701DST1	Date Received: 09/07/2022
Cultivar (Strain) or Sample Description: Key Lime Pie			Date Completed: 09/12/2022

*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 (%)

14.1

Water Activity (aw)

0.527 @ 25.1°C

PASS/FAIL

PASS

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

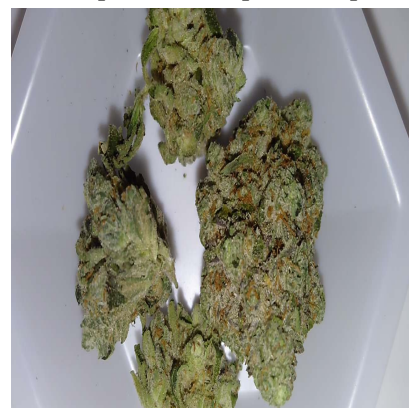
Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

Cannabinoids (Top 3)	(%)	mg/g
THCA	20.3	203
Δ9-THC	0.865	8.65
CBGA	0.612	6.12
TOTAL CBD	-	-
TOTAL THC	18.7	187
TOTAL CANNABINOIDS	21.8	218

Terpenes (Top 5)	(%)	µg/g
α-Humulene	0.366	3660
Isopulegol	0.283	2830
Eucalyptol	0.246	2460
δ-3-Carene	0.246	2460
cis-Nerolidol	0.153	1530
TOTAL TERPENES	1.58	15800

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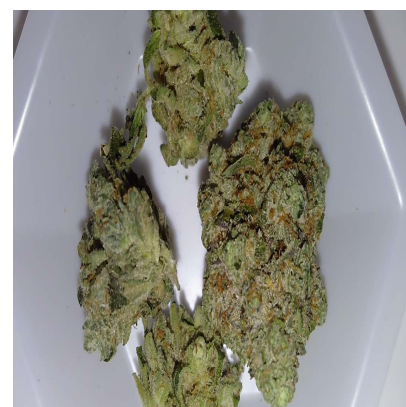
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CANNABINOID (POTENCY) PROFILE (SOP: SOP-CANN-001)

Analysis Date/Time: 9/9/2022 1607 **Method:** HPLC/DAD **Moisture Content (%):** 14.1
Analyst: PW **Instrument:** Agilent 1100 **Water Activity (aw):** 0.5272 @ 25.05°C

<u>Cannabinoid</u>	<u>Result (%)</u>	<u>UM (+/-%)</u>	<u>Result (mg/g)</u>	<u>LOQ (mg/g)</u>	<u>Result (mg/mL)</u>	<u>Per Serving (mg)</u>	<u>Per Unit (mg)</u>
CBC	-	-	-	0.491	-	-	-
CBCA	-	-	-	0.491	-	-	-
CBD	-	-	-	0.491	-	-	-
CBDA	-	-	-	0.491	-	-	-
CBDV	-	-	-	0.491	-	-	-
CBDVA	-	-	-	0.491	-	-	-
CBG	-	-	-	0.491	-	-	-
CBGA	0.612	0.0673	6.12	0.491	-	6.12	6.12
CBL	-	-	-	0.491	-	-	-
CBN	-	-	-	0.491	-	-	-
CBNA	-	-	-	0.491	-	-	-
Δ9-THC	0.865	0.147	8.65	0.491	-	8.65	8.65
Δ8-THC	-	-	-	0.491	-	-	-
THCA	20.3	2.03	203	0.491	-	203	203
THCV	-	-	-	0.491	-	-	-
THCVA	-	-	-	0.491	-	-	-
TOTAL	21.8	2.24	218		-	218	218
TOTAL CBC	-	-	-		-	-	-
TOTAL CBD	-	-	-		-	-	-
TOTAL CBDV	-	-	-		-	-	-
TOTAL CBG	0.537	0.0591	5.37		-	5.37	5.37
TOTAL CBN	-	-	-		-	-	-
TOTAL THC	18.7	1.93	187		-	187	187
TOTAL THCVA	-	-	-		-	-	-



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 THCVA = (THCVA x 0.867) + THCVA

Percentage results are reported by mass.

mg/g results are reported as mass component per mass material.

* CBCA, CBDVA, CBL, CBNA, and THCVA are in process of being added to our accreditation scope.

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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 Kyle W. Felling, Ph.D.
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Cultivar (Strain) or Sample Description: Key Lime Pie			Date Completed: 09/12/2022

TERPENOID PROFILE

Analysis Date/Time: 09/10/2022 1549

Analyst: KF

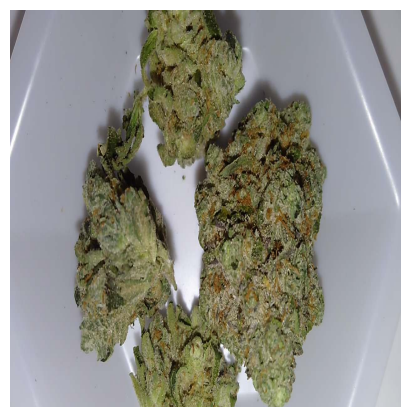
Method: GC/MS

Instrument: Agilent 7890/5975

Deviations from SOP:

None

Terpene	Result (µg/g)	Result (%)	
α-Bisabolol	-	-	
Camphene	345	0.0345	
δ-3-Carene	2460	0.246	
β-Caryophyllene	380	0.0380	
Caryophyllene oxide	226	0.0226	
p-Cymene	-	-	
Eucalyptol	2460	0.246	
Geraniol	-	-	
Guaiol	161	0.0161	
α-Humulene	3660	0.366	
Isopulegol	2830	0.283	
d-Limonene	-	-	
Linalool	95.2	0.00952	
β-Myrcene	692	0.0692	
cis-Nerolidol	1530	0.153	
trans-Nerolidol	707	0.0707	
α-Ocimene	-	-	
β-Ocimene	50.7	0.00507	
α-Pinene	-	-	
β-Pinene	106	0.0106	
α-Terpinene	-	-	
γ-Terpinene	131	0.0131	
Terpinolene	-	-	
TOTAL	15800	1.58	



Abbreviations: GC - Gas Chromatography, MS - Mass Spectrometry, RL - Reporting Limit

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"-" Not detected above RL.

Reporting Limit (µg/g): 19.6

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PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 9/9/2022 2119

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)	-	0.0196	0.157	0.5	Kresoxim-methyl (143390-89-0)	-	0.0196	0.157	0.4
Acephate (30560-19-1)	-	0.0196	0.157	0.4	Malathion (121-75-5)	-	0.0196	0.157	0.2
Acetaminophen (57960-19-7)	-	0.0196	0.157	2	Metalaxyl (57837-19-1)	-	0.0196	0.157	0.2
Acetamiprid (135410-20-7)	-	0.0196	0.157	0.2	Methiocarb (2032-65-7)	-	0.0196	0.157	0.2
Aldicarb (116-06-3)	-	0.0196	0.157	0.4	Methomyl (16752-77-5)	-	0.0196	0.157	0.4
Azoxystrobin (131860-33-8)	-	0.0196	0.157	0.2	Methyl parathion (298-0-0)	-	0.0196	0.157	0.2
Bifenazate (149877-41-8)	-	0.0196	0.157	0.2	MGK 264 (113-48-4)	-	0.0196	0.157	0.2
Bifenthrin (82657-04-3)	-	0.0196	0.157	0.2	Myclobutanil (88671-89-0)	-	0.0196	0.157	0.2
Boscalid (188425-85-6)	-	0.0196	0.157	0.4	Naled (300-76-5)	-	0.0196	0.157	0.5
Carbaryl (63-25-2)	-	0.0196	0.157	0.2	Oxamyl (23135-22-0)	-	0.0196	0.157	1
Carbofuran (1563-66-2)	-	0.0196	0.157	0.2	Paclobutrazol (76738-62-0)	-	0.0196	0.157	0.4
Chlorantraniliprole (800008-45-7)	-	0.0196	0.157	0.2	Permethrins (52645-53-1)	-	0.0196	0.157	0.2
Chlorfenapyr (122453-73-0)	-	0.0196	0.157	1	Phosmet (732-11-6)	-	0.0196	0.157	0.2
Chlorpyrifos (2921-88-2)	-	0.0196	0.157	0.2	Piperonyl butoxide (51-03-6)	-	0.0196	0.157	2
Clofentezine (74115-24-5)	-	0.0196	0.157	0.2	Prallethrin (2331-36-9)	-	0.0196	0.157	0.2
Cyfluthrin (68359-37-5)	-	0.0196	0.157	1	Propiconazole (60207-90-1))	-	0.0196	0.157	0.4
Cypermethrin (52315-07-8)	-	0.0196	0.157	1	Propoxur (114-26-1)	-	0.0196	0.157	0.2
Daminozide (1596-84-5)	-	0.0196	0.157	1	Pyrethrins (8003-34-7)	-	0.0196	0.157	1
DDVP (62-73-7)	-	0.0196	0.157	0.1	Pyridaben (96489-71-3)	-	0.0196	0.157	0.2
Diazinon (333-41-5)	-	0.0196	0.157	0.2	Spinosad (168316-95-8)	-	0.0196	0.157	0.2
Dimethoate (60-51-5)	-	0.0196	0.157	0.2	Spiromesifen (283594-90-1)	-	0.0196	0.157	0.2
Ethoprophos (13194-48-4)	-	0.0196	0.157	0.2	Spirotetramat (203313-25-1)	-	0.0196	0.157	0.2
Etofenprox (80844-07-1)	-	0.0196	0.157	0.4	Spiroxamine (118134-30-8)	-	0.0196	0.157	0.4
Etoazoxole (153233-91-1)	-	0.0196	0.157	0.2	Tebuconazole (80443-41-0)	-	0.0196	0.157	0.4
Fenoxycarb (72490-01-8)	-	0.0196	0.157	0.2	Thiacloprid (111988-49-9)	-	0.0196	0.157	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0196	0.157	0.4	Thiamethoxam (153719-23-4)	-	0.0196	0.157	0.2
Fipronil (120068-37-3)	-	0.0196	0.157	0.4	Trifloxystrobin (141517-21-7)	-	0.0196	0.157	0.2
Flonicamid (158062-67-0)	-	0.0196	0.157	1					
Fludioxinil (131341-86-1)	-	0.0196	0.157	0.4					
Hexythiazox (78587-05-0)	-	0.0196	0.157	1					
Imazalil (35554-44-0)	-	0.0196	0.157	0.2					
Imidacloprid (138261-41-3)	-	0.0196	0.157	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
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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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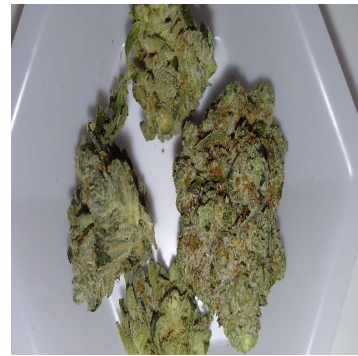
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HEAVY METAL PROFILE (SOP: SOP-ICP-200.7)

Analysis Date/Time: 09/09/2022 1657 (ICP/OES)	Method: ICP/OES	Deviations from SOP:
Analysis Date/Time: - (DMA)	Instrument: Agilent 720-ES	None
Analyst: KF		

Heavy Metal	Result (µg/kg)	LOD (µg/kg)	LOQ (µg/kg)	Action Level (µg/kg)
Arsenic (As)	-	55.2	87.4	200
Cadmium (Cd)	-	55.2	87.4	200
Lead (Pb)	-	55.2	87.4	500
Mercury (Hg)	-	55.2	87.4	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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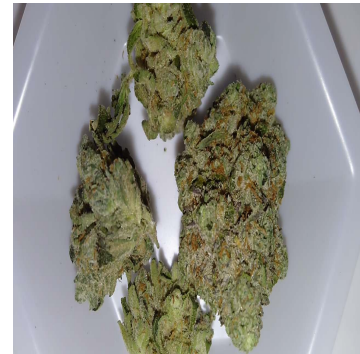
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MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 20220909 1446	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	1
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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