

SUMMARY OF ANALYSIS (SAMPLE ID: SA31842)

Testing Location:	Customer ID: 2161	Order ID: OR9903	Sample Type: Primary
Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix: Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13131198992	Mass: 15g
Greenbrier, AR 72058	Fort Smith, AR 72903	Batch Number:	Date Collected: 06/29/2022
License: ADH 113	License: 00065C	5005	Date Received: 06/30/2022
Cultivar (Strain) or Sample Description: Key Lime Pie			Date Completed: 07/04/2022

*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 (%)

13.2

Water Activity (aw)

0.450 @ 25.0°C

PASS/FAIL

PASS

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

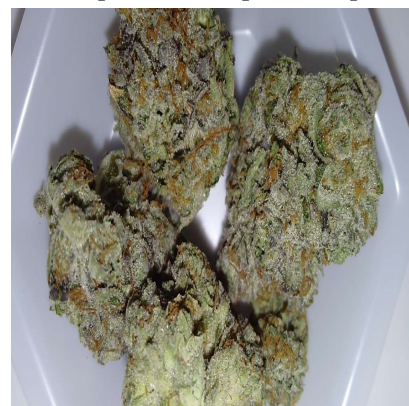
Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

Cannabinoids (Top 3)	(%)	mg/g
THCA	22.5	225
CBGA	1.01	10.1
Δ9-THC	0.887	8.87
TOTAL CBD	0.0452	0.452
TOTAL THC	20.6	206
TOTAL CANNABINOIDS	25.5	255

Terpenes (Top 5)	(%)	µg/g
Geraniol	0.560	5600
β-Pinene	0.529	5290
Terpinolene	0.312	3120
β-Caryophyllene	0.239	2390
Guaial	0.116	1160
TOTAL TERPENES	2.11	21100

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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Mandatory

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Kyle W. Felling
Kyle W. Felling, Ph.D.
Laboratory Director

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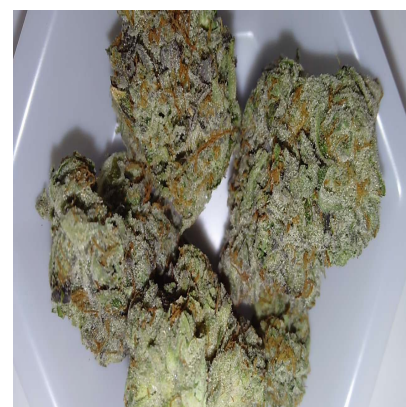
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CANNABINOID (POTENCY) PROFILE (SOP: SOP-CANN-001)

Analysis Date/Time: 07/01/2022 2016
Analyst: PW
Method: HPLC/DAD
Instrument: Agilent 1100
Moisture Content (%): 13.2
Water Activity (aw): 0.4504 @ 25.02°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	DET	-	DET	0.443	-	-	-
CBCA	0.401	0.0321	4.01	0.443	-	4.01	4.01
CBD	-	-	-	0.443	-	-	-
CBDV	0.0515	0.00515	0.515	0.443	-	0.515	0.515
CBDVA	-	-	-	0.443	-	-	-
CBDVA	0.111	0.00996	1.11	0.443	-	1.11	1.11
CBG	0.113	0.0147	1.13	0.443	-	1.13	1.13
CBGA	1.01	0.111	10.1	0.443	-	10.1	10.1
CBL	0.167	0.0234	1.67	0.443	-	1.67	1.67
CBN	-	-	-	0.443	-	-	-
CBNA	DET	-	DET	0.443	-	-	-
Δ9-THC	0.887	0.151	8.87	0.443	-	8.87	8.87
Δ8-THC	-	-	-	0.443	-	-	-
THCA	22.5	2.25	225	0.443	-	225	225
THCV	0.0658	0.00526	0.658	0.443	-	0.658	0.658
THCVA	0.163	0.00815	1.63	0.443	-	1.63	1.63
TOTAL	25.5	2.61	255		-	255	255
TOTAL CBC	0.352	0.0281	3.52		-	3.52	3.52
TOTAL CBD	0.0452	0.00452	0.452		-	0.452	0.452
TOTAL CBDV	0.0960	0.00864	0.960		-	0.960	0.960
TOTAL CBG	0.996	0.112	9.96		-	9.96	9.96
TOTAL CBN	-	-	-		-	-	-
TOTAL THC	20.6	2.13	206		-	206	206
TOTAL THC V	0.207	0.0123	2.07		-	2.07	2.07



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.

* 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
Kyle W. Felling, Ph.D.
Laboratory Director



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TERPENOID PROFILE

Analysis Date/Time: 07/02/2022 0330

Method: GC/MS

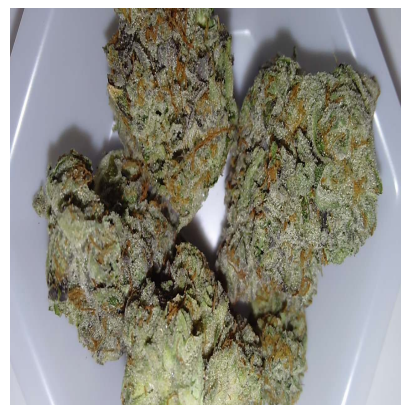
Deviations from SOP:

Analyst: KF

Instrument: Agilent 7890/5975

None

Terpene	Result (µg/g)	Result (%)	
α-Bisabolol	-	-	
Camphene	894	0.0894	
δ-3-Carene	-	-	
β-Caryophyllene	2390	0.239	
Caryophyllene oxide	-	-	
p-Cymene	-	-	
Eucalyptol	82.5	0.00825	
Geraniol	5600	0.560	
Guaiol	1160	0.116	
α-Humulene	529	0.0529	
Isopulegol	363	0.0363	
d-Limonene	538	0.0538	
Linalool	25.0	0.00250	
β-Myrcene	-	-	
cis-Nerolidol	47.8	0.00478	
trans-Nerolidol	135	0.0135	
α-Ocimene	454	0.0454	
β-Ocimene	-	-	
α-Pinene	109	0.0109	
β-Pinene	5290	0.529	
α-Terpinene	-	-	
γ-Terpinene	324	0.0324	
Terpinolene	3120	0.312	
TOTAL	21100	2.11	



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

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"-" Not detected above RL.

Reporting Limit (µg/g): 17.7

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PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 07/03/2022 0155

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)	-	0.0177	0.142	0.5	Kresoxim-methyl (143390-89-0)	-	0.0177	0.142	0.4
Acephate (30560-19-1)	-	0.0177	0.142	0.4	Malathion (121-75-5)	-	0.0177	0.142	0.2
Acetaminophen (57960-19-7)	-	0.0177	0.142	2	Metalaxyl (57837-19-1)	-	0.0177	0.142	0.2
Acetamiprid (135410-20-7)	-	0.0177	0.142	0.2	Methiocarb (2032-65-7)	-	0.0177	0.142	0.2
Aldicarb (116-06-3)	-	0.0177	0.142	0.4	Methomyl (16752-77-5)	-	0.0177	0.142	0.4
Azoxystrobin (131860-33-8)	-	0.0177	0.142	0.2	Methyl parathion (298-0-0)	-	0.0177	0.142	0.2
Bifenazate (149877-41-8)	-	0.0177	0.142	0.2	MGK 264 (113-48-4)	-	0.0177	0.142	0.2
Bifenthrin (82657-04-3)	-	0.0177	0.142	0.2	Myclobutanil (88671-89-0)	-	0.0177	0.142	0.2
Boscalid (188425-85-6)	-	0.0177	0.142	0.4	Naled (300-76-5)	-	0.0177	0.142	0.5
Carbaryl (63-25-2)	-	0.0177	0.142	0.2	Oxamyl (23135-22-0)	-	0.0177	0.142	1
Carbofuran (1563-66-2)	-	0.0177	0.142	0.2	Paclobutrazol (76738-62-0)	-	0.0177	0.142	0.4
Chlorantraniliprole (800008-45-7)	-	0.0177	0.142	0.2	Permethrins (52645-53-1)	-	0.0177	0.142	0.2
Chlorfenapyr (122453-73-0)	-	0.0177	0.142	1	Phosmet (732-11-6)	-	0.0177	0.142	0.2
Chlorpyrifos (2921-88-2)	-	0.0177	0.142	0.2	Piperonyl butoxide (51-03-6)	-	0.0177	0.142	2
Clofentezine (74115-24-5)	-	0.0177	0.142	0.2	Prallethrin (2331-36-9)	-	0.0177	0.142	0.2
Cyfluthrin (68359-37-5)	-	0.0177	0.142	1	Propiconazole (60207-90-1)	-	0.0177	0.142	0.4
Cypermethrin (52315-07-8)	-	0.0177	0.142	1	Propoxur (114-26-1)	-	0.0177	0.142	0.2
Daminozide (1596-84-5)	-	0.0177	0.142	1	Pyrethrins (8003-34-7)	-	0.0177	0.142	1
DDVP (62-73-7)	-	0.0177	0.142	0.1	Pyridaben (96489-71-3)	-	0.0177	0.142	0.2
Diazinon (333-41-5)	-	0.0177	0.142	0.2	Spinosad (168316-95-8)	-	0.0177	0.142	0.2
Dimethoate (60-51-5)	-	0.0177	0.142	0.2	Spiromesifen (283594-90-1)	-	0.0177	0.142	0.2
Ethoprophos (13194-48-4)	-	0.0177	0.142	0.2	Spirotetramat (203313-25-1)	-	0.0177	0.142	0.2
Etofenprox (80844-07-1)	-	0.0177	0.142	0.4	Spiroxamine (118134-30-8)	-	0.0177	0.142	0.4
Etozazole (153233-91-1)	-	0.0177	0.142	0.2	Tebuconazole (80443-41-0)	-	0.0177	0.142	0.4
Fenoxycarb (72490-01-8)	-	0.0177	0.142	0.2	Thiacloprid (111988-49-9)	-	0.0177	0.142	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0177	0.142	0.4	Thiamethoxam (153719-23-4)	-	0.0177	0.142	0.2
Fipronil (120068-37-3)	-	0.0177	0.142	0.4	Trifloxystrobin (141517-21-7)	-	0.0177	0.142	0.2
Flonicamid (158062-67-0)	-	0.0177	0.142	1					
Fludioxinil (131341-86-1)	-	0.0177	0.142	0.4					
Hexythiazox (78587-05-0)	-	0.0177	0.142	1					
Imazalil (35554-44-0)	-	0.0177	0.142	0.2					
Imidacloprid (138261-41-3)	-	0.0177	0.142	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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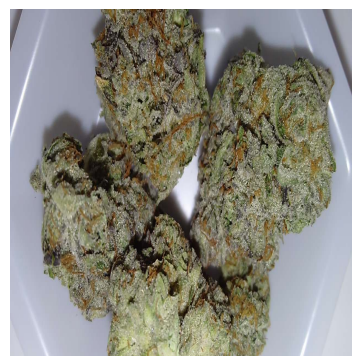
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HEAVY METAL PROFILE (SOP: SOP-ICP-200.7)

Analysis Date/Time: 07/02/2022 1322 (ICP/OES)	Method: ICP/OES	Deviations from SOP:
Analysis Date/Time: - (DMA)	Instrument: Agilent 720-ES	None
Analyst: KF		

<u>Heavy Metal</u>	<u>Result</u> (µg/kg)	<u>LOD</u> (µg/kg)	<u>LOQ</u> (µg/kg)	<u>Action Level</u> (µg/kg)
Arsenic (As)	-	50.1	95.1	200
Cadmium (Cd)	-	50.1	95.1	200
Lead (Pb)	-	50.1	95.1	500
Mercury (Hg)	-	50.1	95.1	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: 07/01/2022 1125	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	-
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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