

SUMMARY OF ANALYSIS (SAMPLE ID: SA32941)

Testing Location:	Customer ID: 2161	Order ID: OR10124	Sample Type: Primary
Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix: Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13137605527	Mass: 22g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 10/25/2022
License: ADH 113	License: 00065C	4011H20220906KLP1	Date Received: 10/26/2022
Cultivar (Strain) or Sample Description: Key Lime Pie			Date Completed: 10/29/2022

*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 (%)

10.9

Water Activity (aw)

0.483 @ 24.5°C

PASS/FAIL

PASS

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

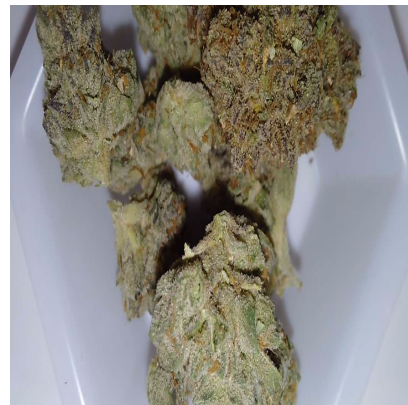
Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

Cannabinoids (Top 3)	(%)	mg/g
THCA	23.5	235
CBGA	0.677	6.77
Δ9-THC	0.515	5.15
TOTAL CBD	-	-
TOTAL THC	21.1	211
TOTAL CANNABINOIDS	25.0	250

Terpenes (Top 5)	(%)	µg/g
β-Caryophyllene	0.229	2290
β-Myrcene	0.202	2020
β-Ocimene	0.129	1290
α-Humulene	0.0919	919
Linalool	0.0620	620
TOTAL TERPENES	0.926	9260

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

www.FASTLaboratories.com



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

Analysis Date/Time: 10/26/2022 1634

Analyst: PW

Method: HPLC/DAD

Instrument: Agilent 1100

Moisture Content (%): 10.9

Water Activity (aw): 0.483 @ 24.52°C

<u>Cannabinoid</u>	<u>Result</u> (%)	<u>UM</u> (+/-%)	<u>Result</u> (mg/g)	<u>LOQ</u> (mg/g)	<u>Result</u> (mg/mL)	<u>Per</u> <u>Serving</u> (mg)	<u>Per</u> <u>Unit</u> (mg)
CBC	-	-	-	0.205	-	-	-
CBCA	0.235	0.0211	2.35	0.205	-	2.35	2.35
CBD	-	-	-	0.205	-	-	-
CBDA	-	-	-	0.205	-	-	-
CBDV	-	-	-	0.205	-	-	-
CBDVA	-	-	-	0.205	-	-	-
CBG	0.0698	0.00628	0.698	0.205	-	0.698	0.698
CBGA	0.677	0.0609	6.77	0.205	-	6.77	6.77
CBL	-	-	-	0.205	-	-	-
CBN	-	-	-	0.205	-	-	-
CBNA	-	-	-	0.205	-	-	-
Δ9-THC	0.515	0.0463	5.15	0.205	-	5.15	5.15
Δ8-THC	-	-	-	0.205	-	-	-
THCA	23.5	2.11	235	0.205	-	235	235
THCV	-	-	-	0.205	-	-	-
THCVA	DET	-	DET	0.205	-	-	-
TOTAL	25.0	2.25	250	-	-	250	250
TOTAL CBC	0.206	0.0185	2.06	-	-	2.06	2.06
TOTAL CBD	-	-	-	-	-	-	-
TOTAL CBDV	-	-	-	-	-	-	-
TOTAL CBG	0.664	0.0598	6.64	-	-	6.64	6.64
TOTAL CBN	-	-	-	-	-	-	-
TOTAL THC	21.1	1.90	211	-	-	211	211
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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Cultivar (Strain) or Sample Description: Key Lime Pie			Date Completed: 10/29/2022

TERPENOID PROFILE

Analysis Date/Time: 10/29/2022 0015

Method: GC/MS

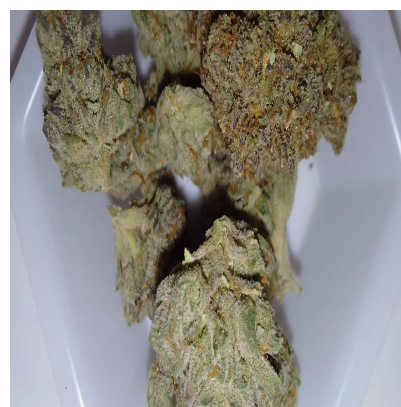
Deviations from SOP:

Analyst: KF

Instrument: Agilent 7890/5975

None

Terpene	Result (µg/g)	Result (%)	
α-Bisabolol	148	0.0148	
Camphene	56.6	0.00566	
δ-3-Carene	-	-	
β-Caryophyllene	2290	0.229	
Caryophyllene oxide	92.8	0.00928	
p-Cymene	-	-	
Eucalyptol	-	-	
Geraniol	69.9	0.00699	
Guaiol	-	-	
α-Humulene	919	0.0919	
Isopulegol	-	-	
d-Limonene	493	0.0493	
Linalool	620	0.0620	
β-Myrcene	2020	0.202	
cis-Nerolidol	-	-	
trans-Nerolidol	228	0.0228	
α-Ocimene	39.6	0.00396	
β-Ocimene	1290	0.129	
α-Pinene	614	0.0614	
β-Pinene	287	0.0287	
α-Terpinene	-	-	
γ-Terpinene	-	-	
Terpinolene	91.5	0.00915	
TOTAL	9260	0.926	



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

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"-" Not detected above RL.

Reporting Limit (µg/g): 18.7

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PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 10/28/2022 1741
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)	-	0.0187	0.149	0.5	Kresoxim-methyl (143390-89-0)	-	0.0187	0.149	0.4
Acephate (30560-19-1)	-	0.0187	0.149	0.4	Malathion (121-75-5)	-	0.0187	0.149	0.2
Acetaminophen (57960-19-7)	-	0.0187	0.149	2	Metalaxyl (57837-19-1)	-	0.0187	0.149	0.2
Acetamiprid (135410-20-7)	-	0.0187	0.149	0.2	Methiocarb (2032-65-7)	-	0.0187	0.149	0.2
Aldicarb (116-06-3)	-	0.0187	0.149	0.4	Methomyl (16752-77-5)	-	0.0187	0.149	0.4
Azoxystrobin (131860-33-8)	-	0.0187	0.149	0.2	Methyl parathion (298-0-0)	-	0.0187	0.149	0.2
Bifenazate (149877-41-8)	-	0.0187	0.149	0.2	MGK 264 (113-48-4)	-	0.0187	0.149	0.2
Bifenthrin (82657-04-3)	-	0.0187	0.149	0.2	Myclobutanil (88671-89-0)	-	0.0187	0.149	0.2
Boscalid (188425-85-6)	-	0.0187	0.149	0.4	Naled (300-76-5)	-	0.0187	0.149	0.5
Carbaryl (63-25-2)	-	0.0187	0.149	0.2	Oxamyl (23135-22-0)	-	0.0187	0.149	1
Carbofuran (1563-66-2)	-	0.0187	0.149	0.2	Paclobutrazol (76738-62-0)	-	0.0187	0.149	0.4
Chlorantraniliprole (800008-45-7)	-	0.0187	0.149	0.2	Permethrins (52645-53-1)	-	0.0187	0.149	0.2
Chlorfenapyr (122453-73-0)	-	0.0187	0.149	1	Phosmet (732-11-6)	-	0.0187	0.149	0.2
Chlorpyrifos (2921-88-2)	-	0.0187	0.149	0.2	Piperonyl butoxide (51-03-6)	-	0.0187	0.149	2
Clofentezine (74115-24-5)	-	0.0187	0.149	0.2	Prallethrin (2331-36-9)	-	0.0187	0.149	0.2
Cyfluthrin (68359-37-5)	-	0.0187	0.149	1	Propiconazole (60207-90-1)	-	0.0187	0.149	0.4
Cypermethrin (52315-07-8)	-	0.0187	0.149	1	Propoxur (114-26-1)	-	0.0187	0.149	0.2
Daminozide (1596-84-5)	-	0.0187	0.149	1	Pyrethrins (8003-34-7)	-	0.0187	0.149	1
DDVP (62-73-7)	-	0.0187	0.149	0.1	Pyridaben (96489-71-3)	-	0.0187	0.149	0.2
Diazinon (333-41-5)	-	0.0187	0.149	0.2	Spinosad (168316-95-8)	-	0.0187	0.149	0.2
Dimethoate (60-51-5)	-	0.0187	0.149	0.2	Spiromesifen (283594-90-1)	-	0.0187	0.149	0.2
Ethoprophos (13194-48-4)	-	0.0187	0.149	0.2	Spirotetramat (203313-25-1)	-	0.0187	0.149	0.2
Etofenprox (80844-07-1)	-	0.0187	0.149	0.4	Spiroxamine (118134-30-8)	-	0.0187	0.149	0.4
Etazoxole (153233-91-1)	-	0.0187	0.149	0.2	Tebuconazole (80443-41-0)	-	0.0187	0.149	0.4
Fenoxycarb (72490-01-8)	-	0.0187	0.149	0.2	Thiacloprid (111988-49-9)	-	0.0187	0.149	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0187	0.149	0.4	Thiamethoxam (153719-23-4)	-	0.0187	0.149	0.2
Fipronil (120068-37-3)	-	0.0187	0.149	0.4	Trifloxystrobin (141517-21-7)	-	0.0187	0.149	0.2
Flonicamid (158062-67-0)	-	0.0187	0.149	1					
Fludioxinil (131341-86-1)	-	0.0187	0.149	0.4					
Hexythiazox (78587-05-0)	-	0.0187	0.149	1					
Imazalil (35554-44-0)	-	0.0187	0.149	0.2					
Imidacloprid (138261-41-3)	-	0.0187	0.149	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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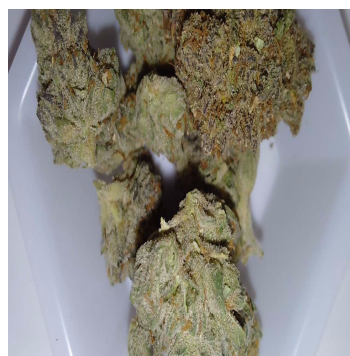
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HEAVY METAL PROFILE (SOP: SOP-ICP-200.7)

Analysis Date/Time: 10/27/2022 1211 (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)	-	55.6	88.0	200
Cadmium (Cd)	-	55.6	88.0	200
Lead (Pb)	-	55.6	88.0	500
Mercury (Hg)	-	55.6	88.0	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

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"-" 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: 10/27/2022 1235	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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