







SUMMARY OF ANALYSIS (SAMPLE ID: SA33586)

Order ID: OR10200 **Testing Location:** Customer ID: 2161 Sample Type: Primary Arkansas River Valley Relief Cultivation Lot Number: Matrix: Flower 232 S. Broadview St. 5601 Old Greenwood Rd Suite C M00065C13138471762 **Mass:** 15g

Greenbrier, AR 72058 Fort Smith, AR 72903 **Production Run: Date Collected:** 11/30/2022 7014H20221104KLP1 License: ADH 113 License: 00065C **Date Received:** 12/01/2022 **Date Completed:** 12/02/2022 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

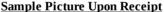
> PASS/FAIL Water Activity (aw) **Moisture Content (%)** 12.2 0.551 @ 23.8°C **PASS**

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.

<u>Cannabino</u>	oids (Top 3)	(%)	mg/g
TH	CA	17.6	176
СВ	GA	0.716	7.16
Δ9-7	ГНС	0.375	3.75
TOTA	L CBD	0.0576	0.576
TOTA	LTHC	15.8	158
TOTAL CAN	NABINOIDS	19.3	193
<u>Terpenes (Top 5)</u>		<u>(%)</u>	µg/g
β-Caryo	phyllene	0.157	1570
β-Му	rcene	0.0918	918
α-Hun	nulene	0.0653	653
Lina	alool	0.0600	600
d-Lim	onene	0.0460	460
TOTAL T	ERPENES	0.514	5140
Contaminants	PASS/FAIL	Sample Picture	e Upon Receipt

Contaminants	PASS/FAIL
Heavy Metals:	PASS
Microbiology:	PASS
Pesticides:	PASS







Scan the QR code to verify results.

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License: ADH 113







CERTIFICATE OF ANALYSIS (SAMPLE ID: SA33586)

Testing Location: Customer ID: 2161 Arkansas River Valley Relief Cultivation 232 S. Broadview St. 5601 Old Greenwood Rd Suite C Greenbrier, AR 72058

Cultivar (Strain) or Sample Description: Key Lime Pie

Fort Smith, AR 72903 License: 00065C

Order ID: OR10200 Lot Number: M00065C13138471762

Production Run: 7014H20221104KLP1 Sample Type: Primary

Matrix: Flower **Mass:** 15g

Date Collected: 11/30/2022 **Date Received:** 12/01/2022

Date Completed: 12/02/2022

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

Analysis Date/Time: 12/1/2022 1857 Method: HPLC/DAD Moisture Content (%): 12.2

Analyst: PW Instrument: Agilent 1100

<u>Cannabinoid</u>	Result (%)	<u>UM</u> (+/-%)	Result (mg/g)	LOQ (mg/g)	Result (mg/ mL)	Per Serving (mg)	Per Unit (mg)
CBC	-	-	-	0.229	-	-	-
CBCA	0.169	0.0152	1.69	0.229	-	1.69	1.69
CBD	-	-	-	0.229	-	-	-
CBDA	0.0656	0.00591	0.656	0.229	-	0.656	0.656
CBDV	-	-	-	0.229	-	-	-
CBDVA	-	-	-	0.229	-	-	-
CBG	0.112	0.0101	1.12	0.229	-	1.12	1.12
CBGA	0.716	0.0645	7.16	0.229	-	7.16	7.16
CBL	-	-	-	0.229	-	-	-
CBN	-	-	-	0.229	-	-	-
CBNA	0.0936	0.00842	0.936	0.229	-	0.936	0.936
Δ9-ΤΗС	0.375	0.0338	3.75	0.229	-	3.75	3.75
Δ8-ΤΗС	-	-	-	0.229	-	-	-
THCA	17.6	1.59	176	0.229	-	176	176
THCV	-	-	-	0.229	-	-	-
THCVA	0.118	0.0107	1.18	0.229	-	1.18	1.18
TOTAL	19.3	1.73	193		_	193	193
TOTAL CBC	0.148	0.0133	1.48		_	1.48	1.48
TOTAL CBD	0.0576	0.00518	0.576		-	0.576	0.576
TOTAL CBDV	-	-	-		-	-	-
TOTAL CBG	0.741	0.0667	7.41		-	7.41	7.41
TOTAL CBN	0.0820	0.00738	0.820		-	0.820	0.820
TOTAL THC	15.8	1.42	158		-	158	158
TOTAL THCV	0.103	0.00924	1.03		-	1.03	1.03
* CBCA, CBDVA, C	BL, CBNA,	and THCVA	are in proce	ess of being added to o	our accredi	tation scop	oe.

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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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 = $(CBCA \times 0.877) + CBC$ Total CBD = $(CBDA \times 0.877) + CBD$ Total CBDV = (CBDVA \times 0.867) + CBDV Total CBG = $(CBGA \times 0.878) + CBG$ Total CBN = $(CBNA \times 0.876) + CBN$ Total THC = (THCA x 0.877) + Δ 9-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.





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CERTIFICATE OF ANALYSIS (SAMPLE ID: SA33586)

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

> Result (%)

0.00655

0.157

0.00941

0.00816

0.0653

0.0460

0.0600

0.0918

0.0172

0.00689

0.0121

0.0252

0.00838

0.514

Fort Smith, AR 72903 License: 00065C Cultivar (Strain) or Sample Description: Key Lime Pie

Order ID: OR10200 Lot Number:

M00065C13138471762

Production Run: 7014H20221104KLP1 Sample Type: Primary

Matrix: Flower **Mass:** 15g

Date Collected: 11/30/2022 **Date Received:** 12/01/2022

Date Completed: 12/02/2022

TERPENOID PROFILE

Analysis Date/Time:12/02/2022 0011

Result

 $(\mu g/g)$

65.5

1570

94.1

81.6

653

460

600

918

172

68.9

121

252

83.8

5140

Analyst: KF

Terpene

α-Bisabolol Camphene

δ-3-Carene β-Caryophyllene

oxide p-Cymene Eucalyptol Geraniol

Guaiol

α-Humulene

Isopulegol

Linalool

β-Myrcene

cis-Nerolidol

α-Ocimene

β-Ocimene

α-Pinene

B-Pinene

TOTAL

α-Terpinene y-Terpinene Terpinolene

trans-Nerolidol

d-Limonene

Caryophyllene

Method: GC/MS

Instrument: Agilent 7890/5975

Deviations from SOP:

None



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

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the FDA.

"-" Not detected above RL

Reporting Limit (µg/g): 18.7





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Cultivar (Strain) or Sample Description: Key Lime Pie

232 S. Broadview St.

Greenbrier, AR 72058

License: ADH 113







CERTIFICATE OF ANALYSIS (SAMPLE ID: SA33586)

Testing Location: Customer ID: 2161 Arkansas River Valley Relief Cultivation Lot Number:

> 5601 Old Greenwood Rd Suite C Fort Smith, AR 72903

License: 00065C

Order ID: OR10200

M00065C13138471762

Production Run: 7014H20221104KLP1 Sample Type: Primary

Matrix: Flower

Mass: 15g

Date Collected: 11/30/2022 **Date Received:** 12/01/2022

Date Completed: 12/02/2022

PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 12/01/2022 2032 Method: LC/MS/MS **Deviations from SOP:**

Analyst: KF Instrument: Shimadzu LC-8050 None

<u>Pesticide</u>	<u>Result</u> (μg/g)	<u>LOD</u> (µg/g)	<u>LOQ</u> (µg/g)	<u>Action</u> <u>Level</u> (μg/g)	<u>Pesticide</u>	<u>Result</u> (μg/g)	<u>LOD</u> (µg/g)	<u>LOQ</u> (µg/g)	Action Level (µg/g)
Abamectin (71751-41-2)	-	0.0187	0.150	0.5	Kresoxim-methyl		0.0187	0.150	0.4
Acephate (30560-19-1)	-	0.0187	0.150	0.4	(143390-89-0)				
Acequinocyl (57960-19-7)	-	0.0187	0.150	2	Malathion (121-75-5)	-	0.0187	0.150	0.2
Acetamiprid (135410-20-7)	-	0.0187	0.150	0.2	Metalaxyl (57837-19-1) Methiocarb (2032-65-7)	-	0.0187 0.0187	0.150 0.150	0.2 0.2
Aldicarb (116-06-3)	-	0.0187	0.150	0.4	Methomyl (16752-77-5)	-	0.0187	0.150	0.4
Azoxystrobin (131860-33-8)	-	0.0187	0.150	0.2	Methyl parathion (298-0-0)	-	0.0187	0.150	0.2
Bifenazate (149877-41-8)	-	0.0187	0.150	0.2	MGK 264 (113-48-4)	-	0.0187	0.150	0.2
Bifenthrin (82657-04-3)	-	0.0187	0.150	0.2	Myclobutanil		0.0187	0.150	0.2
Boscalid (188425-85-6)	-	0.0187	0.150	0.4	(88671-89-0)				
Carbaryl (63-25-2)	-	0.0187	0.150	0.2	Naled (300-76-5)	-	0.0187	0.150	0.5
Carbofuran (1563-66-2)	-	0.0187	0.150	0.2	Oxamyl (23135-22-0)	-	0.0187	0.150	1
Chlorantraniliprole (800008-45-7)	-	0.0187	0.150	0.2	Paclobutrazol (76738-62-0)	-	0.0187	0.150	0.4
Chlorfenapyr		0.0187	0.150	1	Permethrins (52645-53-1)	-	0.0187	0.150	0.2
(122453-73-0)	_	0.0167	0.150	1	Phosmet (732-11-6)	-	0.0187	0.150	0.2
Chlorpyrifos (2921-88-2)	-	0.0187	0.150	0.2	Piperonyl butoxide	_	0.0187	0.150	2
Clofentezine (74115-24-5)	-	0.0187	0.150	0.2	(51-03-6)		0.0107	0.150	0.0
Cyfluthrin (68359-37-5)	-	0.0187	0.150	1	Prallethrins (2331-36-9)	-	0.0187	0.150	0.2
Cypermethrin (52315-07-8)	-	0.0187	0.150	1	Propiconazole (60207-90-1))	-	0.0187	0.150	0.4
Daminozide (1596-84-5)	-	0.0187	0.150	1	Propoxur (114-26-1)	-	0.0187	0.150	0.2
DDVP (62-73-7)	-	0.0187	0.150	0.1	Pyrethrins (8003-34-7)	-	0.0187	0.150	1
Diazinon (333-41-5)	-	0.0187	0.150	0.2	Pyridaben (96489-71-3)	-	0.0187	0.150	0.2
Dimethoate (60-51-5)	-	0.0187	0.150	0.2	Spinosad (168316-95-8)	-	0.0187	0.150	0.2
Ethoprophos (13194-48-4)	-	0.0187	0.150	0.2	Spiromesifen (283594-90-1)	-	0.0187	0.150	0.2
Etofenprox (80844-07-1)	-	0.0187	0.150	0.4	Spirotetramat				
Etoxazole (153233-91-1)	-	0.0187	0.150	0.2	(203313-25-1)	-	0.0187	0.150	0.2
Fenoxycarb (72490-01-8)	-	0.0187	0.150	0.2	Spiroxamine		0.0187	0.150	0.4
(E)-Fenpyroximate (134098-61-6)	-	0.0187	0.150	0.4	(118134-30-8) Tebuconazole	-		0.150	
Fipronil (120068-37-3)	-	0.0187	0.150	0.4	(80443-41-0)	-	0.0187	0.150	0.4
Flonicamid (158062-67-0)	-	0.0187	0.150	1	Thiacloprid	_	0.0187	0.150	0.2
Fludioxinil (131341-86-1)	-	0.0187	0.150	0.4	(111988-49-9)			2.200	J. <u>_</u>
Hexythiazox (78587-05-0)	-	0.0187	0.150	1	Thiamethoxam (153719-23-4)		0.0187	0.150	0.2
Imazalil (35554-44-0)	-	0.0187	0.150	0.2	Trifloxystrobin				
Imidacloprid (138261-41-3)	-	0.0187	0.150	0.4	(141517-21-7)		0.0187	0.150	0.2



Color Key

"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

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

<u>Pesticide</u>	Synonym(s)	<u>Pesticide</u>	Synonym(s)	<u>Pesticide</u>	Synonym(s)
Cyfluthrin	Baythroid	Myclobutanil	Systhane	Propiconazole	Tilt
DDVP	Dichlorvos	Naled	Dibrom	Propoxur	Baygon
Ethoprophos	Prophos	Phosmet	Imidan		













CERTIFICATE OF ANALYSIS (SAMPLE ID: SA33586)

Testing Location:Customer ID: 2161Order ID: OR10200Sample Type: PrimaryArkansasRiver Valley Relief CultivationLot Number:Matrix: Flower

232 S. Broadview St. 5601 Old Greenwood Rd Suite C M00065C13138471762 Mass: 15g

Greenbrier, AR 72058 Fort Smith, AR 72903 **Production Run: Date Collected:** 11/30/2022 License: ADH 113 License: 00065C 7014H20221104KLP1 **Date Received:** 12/01/2022 **Cultivar (Strain) or Sample Description:** Key Lime Pie **Date Completed:** 12/02/2022

HEAVY METAL PROFILE (SOP: SOP-ICP-200.7)

Analysis Date/Time: 12/02/2022 0548 (ICP/OES) Method: ICP/OES Deviations from SOP:

Analysis Date/Time: - (DMA) Instrument: Agilent 720-ES None

Analyst: KF

Heavy Metal	<u>Result</u> (μg/kg)	<u>LOD</u> (μg/kg)	LOQ (µg/kg)	<u>Action Level</u> (μg/kg)
Arsenic (As)	-	59.0	93.3	200
Cadmium (Cd)	-	59.0	93.3	200
Lead (Pb)	-	59.0	93.3	500
Mercury (Hg)	-	59.0	93.3	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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CERTIFICATE OF ANALYSIS (SAMPLE ID: SA33586)

Testing Location:Customer ID: 2161Sample ID: SA33586Sample Type: PrimaryArkansasRiver Valley Relief CultivationLot Number:Matrix: Flower232 S. Broadview St.5601 Old Greenwood Rd Suite CM00065C13138471762Mass: 15g

 Greenbrier, AR 72058
 Fort Smith, AR 72903
 Production Run:
 Date Collected: 11/30/2022

 License: ADA 05_H273
 License: 00065C
 7014H20221104KLP1
 Date Received: 12/01/2022

Cultivar (Strain) or Sample Description: Key Lime Pie

Date Completed: 12/02/2022

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 12/2/2022 0631 **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

Reporting Limit (CFU/g)

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