







## **SUMMARY OF ANALYSIS (SAMPLE ID: SA35144)**

Testing Location:Customer ID: 2161Order ID: OR10438Sample Type: PrimaryArkansasRiver Valley Relief CultivationLot Number:Matrix: Flower232 S. Broadview St.5601 Old Greenwood Rd Suite CM00065C13135592389Mass: 23g

Greenbrier, AR 72058 Fort Smith, AR 72903 **Production Run: Date Collected:** 05/08/2023 License: ADH 113 License: 00065C 3031H20230328GP2-2 **Date Received:** 05/08/2023 **Cultivar (Strain) or Sample Description:** Grape Pie #2 **Date Completed:** 05/11/2023

\*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 (%)
 Water Activity (aw)
 PASS/FAIL

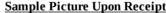
 12.2
 0.506 @ 24.4°C
 PASS

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>	ids (Top 3)	<u>(%)</u>	mg/g
TH	CA	28.4	284
CBG	GA	1,21	12.1
Δ9-7	THC	0.479	4.79
TOTAL	CBD	-	-
TOTAL	TOTAL THC		254
TOTAL CAN	NABINOIDS	30.3	303
<u>Terpene</u>	Terpenes (Top 5)		<u>µg/g</u>
d-Lim	d-Limonene		4370
α-Pir	α-Pinene		1880
β-Caryop	β-Caryophyllene		1570
β-Piı	β-Pinene		1420
Gua	Guaiol		932
TOTAL TI	ERPENES	1.59	15900
Contaminants	PASS/FAII	Sample Dictur	e Unon Receipt

<b>Contaminants</b>	PASS/FAIL
Heavy Metals:	PASS
Microbiology:	PASS
Pesticides:	PASS







Scan the QR code to verify results.

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Greenbrier, AR 72058

License: ADH 113







## **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35144)**

Testing Location:Customer ID: 2161ArkansasRiver Valley Relief Cultivation232 S. Broadview St.5601 Old Greenwood Rd Suite Company

Cultivar (Strain) or Sample Description: Grape Pie #2

5601 Old Greenwood Rd Suite C Fort Smith, AR 72903

License: 00065C

Order ID: OR10438 Lot Number:

M00065C13135592389

**Production Run:** 3031H20230328GP2-2

**Sample Type:** Primary

**Matrix:** Flower **Mass:** 23g

**Date Collected:** 05/08/2023 **Date Received:** 05/08/2023

**Date Completed:** 05/11/2023

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

Analysis Date/Time: 05/10/2023 1415 Method: HPLC/DAD Moisture Content (%): 12.2

Analyst: PW Instrument: Agilent 1100 Water Activity (aw): 0.506 @ 24.45°C

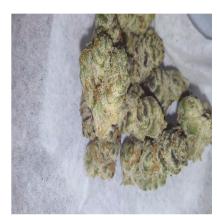
<u>Cannabinoid</u>	Result (%)	Result (mg/g)	LOD (mg/g)	LOQ (mg/g)	Result (mg/ mL)	Per Serving (mg)	Per Unit (mg)
CBC	ND	ND	0.188	0.440	-	-	-
CBCA	ND	ND	0.585	1.37	-	-	-
CBD	ND	ND	1.33	3.10	-	-	-
CBDA	ND	ND	0.489	1.14	-	-	-
CBDV	ND	ND	0.213	0.498	-	-	-
CBDVA	ND	ND	0.569	1.33	-	-	-
CBG	<loq< td=""><td><loq< td=""><td>0.863</td><td>2.02</td><td>-</td><td>-</td><td>-</td></loq<></td></loq<>	<loq< td=""><td>0.863</td><td>2.02</td><td>-</td><td>-</td><td>-</td></loq<>	0.863	2.02	-	-	-
CBGA	1.21	12.1	0.618	1.44	-	12.1	12.1
CBL	ND	ND	0.997	2.33	-	-	-
CBN	ND	ND	0.458	1.07	-	-	-
CBNA	ND	ND	0.494	1.15	-	-	-
Δ9-ΤΗС	0.479	4.79	0.549	1.28	-	4.79	4.79
Δ8-ΤΗС	ND	ND	0.856	2.00	-	-	-
THCA	28.4	284	0.298	0.696	-	284	284
THCV	ND	ND	0.714	1.66	-	-	-
THCVA	0.171	1.71	0.228	0.531	-	1.71	1.71
TOTAL	30.3	303			-	303	303
TOTAL CBC	-	-		•	-	-	-
TOTAL CBD	-	-			-	-	-
TOTAL CBDV	-	-			-	-	-
TOTAL CBG	1.07	10.7			-	10.7	10.7
TOTAL CBN	-	-			-	-	-
TOTAL THC	25.4	254			-	254	254
TOTAL THCV	0.148	1.48		11 1	-	1.48	1.48

<sup>\*</sup> 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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SERVING MASS (g): 1.00 SERVINGS/UNIT: 1

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) +  $\Delta$ 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.





<sup>&</sup>quot;-" Not detected above LOD.









## **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35144)**

**Testing Location:** 

Arkansas 232 S. Broadview St.

Greenbrier, AR 72058 License: ADH 113

**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

Customer ID: 2161

River Valley Relief Cultivation 5601 Old Greenwood Rd Suite C

> Result <u>(%)</u>

0.0696

0.0549

0.157

0.0458

0.0932

0.0870

0.437

0.0690

0.0736

0.0385

0.0801

0.188

0.142

0.0509

1.59

Fort Smith, AR 72903 License: 00065C

Order ID: OR10438 Lot Number:

M00065C13135592389

**Production Run:** 3031H20230328GP2-2 Sample Type: Primary

Matrix: Flower **Mass:** 23g

**Date Collected:** 05/08/2023 **Date Received:** 05/08/2023

**Date Completed:** 05/11/2023

#### TERPENOID PROFILE

**Analysis Date/Time:**05/11/2023 0653

Cultivar (Strain) or Sample Description: Grape Pie #2

Result

 $(\mu g/g)$ 

696

549

1570

458

932

870

4370

690

736

385

801

1880

1420

509

15900

**Analyst: KF** 

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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"-" Not detected above RL

Reporting Limit (µg/g): 41.3





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05/11/2023









## **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35144)**

**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: OR10438

Lot Number:

M00065C13135592389

**Production Run:** 3031H20230328GP2-2

Sample Type: Primary

Matrix: Flower

**Mass:** 23g

**Date Collected:** 05/08/2023 **Date Received:** 05/08/2023

**Date Completed:** 05/11/2023

## PESTICIDES PROFILE (SOP: SOP-PEST-001)

**Analysis Date/Time:** 05/10/2023 1558

Cultivar (Strain) or Sample Description: Grape Pie #2

**Analyst: KF** 

Method: LC/MS/MS

Instrument: Shimadzu LC-8050

**Deviations from SOP:** 

None

<u>Pesticide</u>	Result (μg/g)	<u>LOD</u> (µg/g)	<u>LOQ</u> (µg/g)	Action Level (µg/g)	<u>Pesticide</u>	Result (μg/g)	<u>LOD</u> (µg/g)	LOQ (µg/g)	<u>Action</u> <u>Level</u> (μg/g)
Abamectin (71751-41-2)	-	0.0413	0.330	0.5	Kresoxim-methyl	_	0.0413	0.330	0.4
Acephate (30560-19-1)	-	0.0413	0.330	0.4	(143390-89-0)				
Acequinocyl (57960-19-7)	-	0.0413	0.330	2	Malathion (121-75-5)	-	0.0413	0.330	0.2
Acetamiprid (135410-20-7)	-	0.0413	0.330	0.2	Metalaxyl (57837-19-1) Methiocarb (2032-65-7)	-	0.0413 0.0413	0.330 0.330	0.2 0.2
Aldicarb (116-06-3)	-	0.0413	0.330	0.4	Methomyl (16752-77-5)	-	0.0413	0.330	0.4
Azoxystrobin (131860-33-8)	-	0.0413	0.330	0.2	Methyl parathion (298-0-0)	-	0.0413	0.330	0.2
Bifenazate (149877-41-8)	-	0.0413	0.330	0.2	MGK 264 (113-48-4)	-	0.0413	0.330	0.2
Bifenthrin (82657-04-3)	-	0.0413	0.330	0.2	Myclobutanil		0.0413	0.330	0.2
Boscalid (188425-85-6)	-	0.0413	0.330	0.4	(88671-89-0)		0.0413	0.330	0.2
Carbaryl (63-25-2)	-	0.0413	0.330	0.2	Naled (300-76-5)	-	0.0413	0.330	0.5
Carbofuran (1563-66-2)	-	0.0413	0.330	0.2	Oxamyl (23135-22-0)	-	0.0413	0.330	1
Chlorantraniliprole (800008-45-7)	-	0.0413	0.330	0.2	Paclobutrazol (76738-62-0)	-	0.0413	0.330	0.4
Chlorfenapyr		0.0440	0.000		Permethrins (52645-53-1)	-	0.0413	0.330	0.2
(122453-73-0)	-	0.0413	0.330	1	Phosmet (732-11-6)	-	0.0413	0.330	0.2
Chlorpyrifos (2921-88-2)	-	0.0413	0.330	0.2	Piperonyl butoxide	_	0.0413	0.330	2
Clofentezine (74115-24-5)	-	0.0413	0.330	0.2	(51-03-6)				
Cyfluthrin (68359-37-5)	-	0.0413	0.330	1	Prallethrins (2331-36-9)	-	0.0413	0.330	0.2
Cypermethrin (52315-07-8)	-	0.0413	0.330	1	Propiconazole (60207-90-1))	-	0.0413	0.330	0.4
Daminozide (1596-84-5)	-	0.0413	0.330	1	Propoxur (114-26-1)	-	0.0413	0.330	0.2
DDVP (62-73-7)	-	0.0413	0.330	0.1	Pyrethrins (8003-34-7)	-	0.0413	0.330	1
Diazinon (333-41-5)	-	0.0413	0.330	0.2	Pyridaben (96489-71-3)	-	0.0413	0.330	0.2
Dimethoate (60-51-5)	-	0.0413	0.330	0.2	Spinosad (168316-95-8)	-	0.0413	0.330	0.2
Ethoprophos (13194-48-4)	-	0.0413	0.330	0.2	Spiromesifen (283594-90-1)	-	0.0413	0.330	0.2
Etofenprox (80844-07-1)	-	0.0413	0.330	0.4	Spirotetramat				
Etoxazole (153233-91-1)	-	0.0413	0.330	0.2	(203313-25-1)	-	0.0413	0.330	0.2
Fenoxycarb (72490-01-8)	-	0.0413	0.330	0.2	Spiroxamine		0.0413	0.330	0.4
(E)-Fenpyroximate (134098-61-6)	-	0.0413	0.330	0.4	(118134-30-8) Tebuconazole	-			
Fipronil (120068-37-3)	-	0.0413	0.330	0.4	(80443-41-0)	-	0.0413	0.330	0.4
Flonicamid (158062-67-0)	-	0.0413	0.330	1	Thiacloprid	_	0.0413	0.330	0.2
Fludioxinil (131341-86-1)	-	0.0413	0.330	0.4	(111988-49-9)		***************************************		
Hexythiazox (78587-05-0)	-	0.0413	0.330	1	Thiamethoxam (153719-23-4)		0.0413	0.330	0.2
Imazalil (35554-44-0)	-	0.0413	0.330	0.2	Trifloxystrobin				
Imidacloprid (138261-41-3)	-	0.0413	0.330	0.4	(141517-21-7)		0.0413	0.330	0.2



Color Key

# 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

<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		





REPORT OF LABORATORY ANALYSIS









## **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35144)**

Testing Location:Customer ID: 2161Order ID: OR10438Sample Type: PrimaryArkansasRiver Valley Relief CultivationLot Number:Matrix: Flower

 232 S. Broadview St.
 5601 Old Greenwood Rd Suite C
 M00065C13135592389
 Mass: 23g

 Greenbrier, AR 72058
 Fort Smith, AR 72903
 Production Run:
 Date Collected: 05/08/2023

 License: ADH 113
 License: 00065C
 3031H20230328GP2-2
 Date Received: 05/08/2023

Cultivar (Strain) or Sample Description: Grape Pie #2

Date Completed: 05/11/2023

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

Analysis Date/Time: 05/10/2023 1350 (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)	-	59.9	94.8	200
Cadmium (Cd)	-	59.9	94.8	200
Lead (Pb)	-	59.9	94.8	500
Mercury (Hg)	-	59.9	94.8	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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232 S. Broadview St.





M00065C13135592389



## **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35144)**

Testing Location:Customer ID: 2161Sample ID: SA35144Sample Type: PrimaryArkansasRiver Valley Relief CultivationLot Number:Matrix: Flower

Greenbrier, AR 72058 Fort Smith, AR 72903 **Production Run: Date Collected:** 05/08/2023 License: ADA 05\_H273 License: 00065C 3031H20230328GP2-2 **Date Received:** 05/08/2023

**Cultivar (Strain) or Sample Description:** Grape Pie #2 **Date Completed:** 05/11/2023

## MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

**Analysis Date/Time:** 20230510 1113 **Method:** Hardy Diagnostics CompactDry **Deviations from SOP:** 

Analyst: PW Instrument: Thermo Incubator None

5601 Old Greenwood Rd Suite C

Bacteria/Microbe	<u>Result</u> (CFU/g)	Action Level (CFU/g)
Aerobic Plate Count	NT	<u></u>
Coliforms, Total	Absent	1
Escherichia Coli (E. Coli)	Absent	100
Mold/Yeast	NT	-
Pseudomonas aeruginosa	NT	1
Salmonella spp.	NT	-
Staphylococcus aureus	NT	-



**Mass:** 23g

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)

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