







## **SUMMARY OF ANALYSIS (SAMPLE ID: SA34683)**

Testing Location:Customer ID: 2161Order ID: OR10347Sample Type: PrimaryArkansasRiver Valley Relief CultivationLot Number:Matrix: Flower232 S. Broadview St.5601 Old Greenwood Rd Suite CM00065C13137872119Mass: 23g

Greenbrier, AR 72058 Fort Smith, AR 72903 **Production Run:** Date Collected: 03/13/2023 License: ADH 113 License: 00065C 5026H20230209RSR-3 Date Received: 03/13/2023 Cultivar (Strain) or Sample Description: Ryleigh's Reserve Date Completed: 03/17/2023

\*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

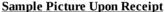
 12.6
 0.486 @ 24.3°C
 PASS

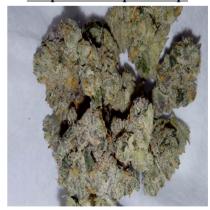
Moisture content/water activity action levels are referenced from the State of Arkansas MMJ testing guidelines.

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
THO	CA	27.4	274
CBC	GA	0.706	7.06
Δ9-Τ	HC	0.306	3.06
TOTAL	CBD	-	-
TOTAI	THC	24.3	243
TOTAL CAN	NABINOIDS	28.6	286
<u>Terpenes</u>	(Top 5)	<u>(%)</u>	ħã∕ā
Caryophyll	ene oxide	0.857	8570
d-Lim	d-Limonene		3730
β-Caryop	β-Caryophyllene		3710
β-Муі	β-Myrcene		2080
Lina	Linalool		2050
TOTAL TE	RPENES	2.66	26600
Contaminants	PASS/FAII	Sample Pictur	e Unon Receint

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







Scan the QR code to verify results.

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**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: OR10347 Lot Number: M00065C13137872119 **Production Run:** 5026H20230209RSR-3

Sample Type: Primary Matrix: Flower **Mass:** 23g

**Date Collected:** 03/13/2023 **Date Received:** 03/13/2023

**Date Completed:** 03/17/2023

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

**Analysis Date/Time:** 3/15/2023 1455 Method: HPLC/DAD Moisture Content (%): 12.6

**Analyst: PW** 

Cultivar (Strain) or Sample Description: Ryleigh's Reserve

<b>Instrument:</b> Agilent 1100	



SERVING MASS (g): 1.00 **SERVINGS/UNIT: 1** 

Water Activity (aw): 0.486 @ 24.32°C

"-" 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) +  $\Delta$ 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.

<u>Cannabinoid</u>	Result (%)	Result (mg/g)	<u>LOD</u> (mg/g)	LOQ (mg/g)	Result (mg/ mL)	Per Serving	
CBC	ND	ND	0.220	0.513	<u>IIIL)</u>	<u>(mg)</u>	<u>(mg)</u>
CBCA		ND ND	0.220		-	-	-
	ND			1.59	-	-	-
CBD	ND	ND	1.55	3.62	-	-	-
CBDA	ND	ND	0.571	1.33	-	-	-
CBDV	ND	ND	0.249	0.581	-	-	-
CBDVA	ND	ND	0.664	1.55	-	-	-
CBG	<loq< td=""><td><loq< td=""><td>1.01</td><td>2.35</td><td>-</td><td>-</td><td>-</td></loq<></td></loq<>	<loq< td=""><td>1.01</td><td>2.35</td><td>-</td><td>-</td><td>-</td></loq<>	1.01	2.35	-	-	-
CBGA	0.706	7.06	0.722	1.68	-	7.06	7.06
CBL	ND	ND	1.16	2.72	-	-	-
CBN	ND	ND	0.535	1.25	-	-	-
CBNA	ND	ND	0.577	1.34	-	-	-
Δ9-ΤΗС	0.306	3.06	0.641	1.49	-	3.06	3.06
Δ8-ΤΗС	ND	ND	1.00	2.33	-	-	-
THCA	27.4	274	0.347	0.812	-	274	274
THCV	ND	ND	0.834	1.94	-	-	-
THCVA	0.168	1.68	0.266	0.619	-	1.68	1.68
TOTAL	28.6	286		•	-	286	286
TOTAL CBC	-					_	-
TOTAL CBD	-	-			-	-	-
TOTAL CBDV	-	-			-	-	-
TOTAL CBG	0.620	6.20			-	6.20	6.20
TOTAL CBN	-	-			-	-	-
TOTAL THC	24.3	243			-	243	243
TOTAL THCV	0.146	1.46			-	1.46	1.46
* CDCA CDDVA C	DI CDMA	and THCVA	ana in process of h	saing added to a	uw accuadio	ation con	

<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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**Testing Location:** Arkansas

232 S. Broadview St. Greenbrier, AR 72058 License: ADH 113

River Valley Relief Cultivation 5601 Old Greenwood Rd Suite C Fort Smith, AR 72903 License: 00065C

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

> > 0.121

0.0301

0.371

0.857

0.185

0.103

0.373

0.205

0.208

0.0397

0.0530

0.0841

0.0292

2.66

Customer ID: 2161

Order ID: OR10347 Lot Number: M00065C13137872119 **Production Run:** 5026H20230209RSR-3

Sample Type: Primary Matrix: Flower **Mass:** 23g

**Date Collected:** 03/13/2023 **Date Received:** 03/13/2023

**Date Completed:** 03/17/2023

## TERPENOID PROFILE

Analysis Date/Time:03/16/2023 0024

Cultivar (Strain) or Sample Description: Ryleigh's Reserve

Result

 $(\mu g/g)$ 

1210

301

3710

8570

1850

1030

3730

2050

2080

397

530

841

292

26600

**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

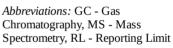
Method: GC/MS

Instrument: Agilent 7890/5975

**Deviations from SOP:** 

None





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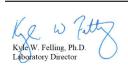
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"-" Not detected above RL

Reporting Limit (µg/g): 44.5





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**Testing Location:** Arkansas

232 S. Broadview St. Greenbrier, AR 72058

License: ADH 113

**Analyst: KF** 

Customer ID: 2161

River Valley Relief Cultivation 5601 Old Greenwood Rd Suite C

Fort Smith, AR 72903

License: 00065C

Order ID: OR10347

Lot Number:

M00065C13137872119

**Production Run:** 5026H20230209RSR-3 Sample Type: Primary

Matrix: Flower

**Mass:** 23g

**Date Collected:** 03/13/2023 **Date Received:** 03/13/2023

**Date Completed:** 03/17/2023

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

**Analysis Date/Time:** 03/15/2023 1642

Cultivar (Strain) or Sample Description: Ryleigh's Reserve

Method: LC/MS/MS

Instrument: Shimadzu LC-8050

**Deviations from SOP:** 

None

<u>Pesticide</u>	<u>Result</u> (μg/g)	<u>LOD</u> (µg/g)	LOQ (µg/g)	<u>Action</u> <u>Level</u> (μg/g)	<u>Pesticide</u>	<u>Result</u> (μg/g)	LOD (µg/g)	<u>LOQ</u> (µg/g)	<u>Action</u> <u>Level</u> (μg/g)
Abamectin (71751-41-2)	-	0.0445	0.356	0.5	Kresoxim-methyl	_	0.0445	0.356	0.4
Acephate (30560-19-1)	-	0.0445	0.356	0.4	(143390-89-0)				
Acequinocyl (57960-19-7)	-	0.0445	0.356	2	Malathion (121-75-5)	-	0.0445	0.356	0.2
Acetamiprid (135410-20-7)	-	0.0445	0.356	0.2	Metalaxyl (57837-19-1) Methiocarb (2032-65-7)	-	0.0445 0.0445	0.356 0.356	0.2 0.2
Aldicarb (116-06-3)	-	0.0445	0.356	0.4	Methomyl (16752-77-5)	-	0.0445	0.356	0.4
Azoxystrobin (131860-33-8)	-	0.0445	0.356	0.2	Methyl parathion (298-0-0)	-	0.0445	0.356	0.2
Bifenazate (149877-41-8)	-	0.0445	0.356	0.2	MGK 264 (113-48-4)	-	0.0445	0.356	0.2
Bifenthrin (82657-04-3)	-	0.0445	0.356	0.2	Myclobutanil	_	0.0445	0.356	0.2
Boscalid (188425-85-6)	-	0.0445	0.356	0.4	(88671-89-0)				
Carbaryl (63-25-2)	-	0.0445	0.356	0.2	Naled (300-76-5)	-	0.0445	0.356	0.5
Carbofuran (1563-66-2)	-	0.0445	0.356	0.2	Oxamyl (23135-22-0)	-	0.0445	0.356	1
Chlorantraniliprole (800008-45-7)	-	0.0445	0.356	0.2	Paclobutrazol (76738-62-0)	-	0.0445	0.356	0.4
Chlorfenapyr		0.0445	0.356	1	Permethrins (52645-53-1)	-	0.0445	0.356	0.2
(122453-73-0)	_	0.0445	0.336	1	Phosmet (732-11-6)	-	0.0445	0.356	0.2
Chlorpyrifos (2921-88-2)	-	0.0445	0.356	0.2	Piperonyl butoxide	_	0.0445	0.356	2
Clofentezine (74115-24-5)	-	0.0445	0.356	0.2	(51-03-6) Prallethrins (2331-36-9)		0.0445	0.356	0.2
Cyfluthrin (68359-37-5)	-	0.0445	0.356	1	Propiconazole	-	0.0443	0.550	0.2
Cypermethrin (52315-07-8)	-	0.0445	0.356	1	(60207-90-1))	-	0.0445	0.356	0.4
Daminozide (1596-84-5)	-	0.0445	0.356	1	Propoxur (114-26-1)	-	0.0445	0.356	0.2
DDVP (62-73-7)	-	0.0445	0.356	0.1	Pyrethrins (8003-34-7)	-	0.0445	0.356	1
Diazinon (333-41-5)	-	0.0445	0.356	0.2	Pyridaben (96489-71-3)	-	0.0445	0.356	0.2
Dimethoate (60-51-5)	-	0.0445	0.356	0.2	Spinosad (168316-95-8)	-	0.0445	0.356	0.2
Ethoprophos (13194-48-4)	-	0.0445	0.356	0.2	Spiromesifen (283594-90-1)	-	0.0445	0.356	0.2
Etofenprox (80844-07-1)	-	0.0445	0.356	0.4	Spirotetramat				
Etoxazole (153233-91-1)	-	0.0445	0.356	0.2	(203313-25-1)	-	0.0445	0.356	0.2
Fenoxycarb (72490-01-8)	-	0.0445	0.356	0.2	Spiroxamine	_	0.0445	0.356	0.4
(E)-Fenpyroximate (134098-61-6)	-	0.0445	0.356	0.4	(118134-30-8) Tebuconazole		0.0445	0.356	0.4
Fipronil (120068-37-3)	-	0.0445	0.356	0.4	(80443-41-0)	-	0.0443	0.550	0.4
Flonicamid (158062-67-0)	-	0.0445	0.356	1	Thiacloprid	_	0.0445	0.356	0.2
Fludioxinil (131341-86-1)	-	0.0445	0.356	0.4	(111988-49-9)				
Hexythiazox (78587-05-0)	-	0.0445	0.356	1	Thiamethoxam (153719-23-4)	-	0.0445	0.356	0.2
Imazalil (35554-44-0)	-	0.0445	0.356	0.2	Trifloxystrobin		0.0445	0.050	0.0
Imidacloprid (138261-41-3)	-	0.0445	0.356	0.4	(141517-21-7)		0.0445	0.356	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

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













Order ID: OR10347 **Testing Location:** Customer ID: 2161

Arkansas River Valley Relief Cultivation Lot Number: 232 S. Broadview St. 5601 Old Greenwood Rd Suite C M00065C13137872119

Greenbrier, AR 72058 Fort Smith, AR 72903 **Production Run:** License: ADH 113 License: 00065C Cultivar (Strain) or Sample Description: Ryleigh's Reserve

Sample Type: Primary Matrix: Flower

**Mass:** 23g

**Date Collected:** 03/13/2023 5026H20230209RSR-3 **Date Received:** 03/13/2023

**Date Completed:** 03/17/2023

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

**Analysis Date/Time:** 3/15/2023 1533 (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)	-	58.4	92.4	200
Cadmium (Cd)	-	58.4	92.4	200
Lead (Pb)	-	58.4	92.4	500
Mercury (Hg)	_	58.4	92.4	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 < AI** RESULT > AI

"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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Testing Location:Customer ID: 2161Sample ID: SA34683Sample Type: PrimaryArkansasRiver Valley Relief CultivationLot Number:Matrix: Flower232 S. Broadview St.5601 Old Greenwood Rd Suite CM00065C13137872119Mass: 23g

 Greenbrier, AR 72058
 Fort Smith, AR 72903
 Production Run:
 Date Collected: 03/13/2023

 License: ADA 05\_H273
 License: 00065C
 5026H20230209RSR-3
 Date Received: 03/13/2023

Cultivar (Strain) or Sample Description:Ryleigh's ReserveDate Completed:03/17/2023

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

**Analysis Date/Time:** 20230315 1323 **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)

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