

**SUMMARY OF ANALYSIS (SAMPLE ID: SA35289)**

<b>Testing Location:</b>	<b>Customer ID:</b> 2161	<b>Order ID:</b> OR10467	<b>Sample Type:</b> Primary
Arkansas	River Valley Relief Cultivation	<b>Lot Number:</b>	<b>Matrix:</b> Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13132187389	<b>Mass:</b> 19g
Greenbrier, AR 72058	Fort Smith, AR 72903	<b>Production Run:</b>	<b>Date Collected:</b> 05/23/2023
License: ADH 113	License: 00065C	5033H20230424RSR-1	<b>Date Received:</b> 05/23/2023
<b>Cultivar (Strain) or Sample Description:</b> Ryleigh's Reserve			<b>Date Completed:</b> 05/25/2023

\*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 (%)**

13.6

**Water Activity (aw)**

0.469 @ 24.3°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.

<b>Cannabinoids (Top 3)</b>	<b>(%)</b>	<b>mg/g</b>
THCA	28.8	288
CBGA	0.977	9.77
THCVA	0.172	1.72
TOTAL CBD	-	-
TOTAL THC	25.4	254
TOTAL CANNABINOIDS	30.3	303

<b>Terpenes (Top 5)</b>	<b>(%)</b>	<b>µg/g</b>
d-Limonene	0.400	4000
β-Myrcene	0.289	2890
β-Caryophyllene	0.209	2090
β-Ocimene	0.184	1840
Linalool	0.178	1780
TOTAL TERPENES	1.59	15900

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

**Sample Picture Upon Receipt**



Scan the QR code to verify results.

This information is provided as a service and makes no claims of efficacy and/or safety of this product.

Results are applicable only for the sample(s) analyzed and for the specific analysis conducted.

This report is for informational purposes only and should not be used to diagnose, treat, or prevent any medical-related symptoms.

The statements and results herein have not been approved and/or endorsed by the FDA.

**REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full, without the written consent of  
Felling Analytical Services and Technology (F.A.S.T.), LLC

[www.FASTLaboratories.com](http://www.FASTLaboratories.com)

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



**CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35289)**

<b>Testing Location:</b>	<b>Customer ID:</b> 2161	<b>Order ID:</b> OR10467	<b>Sample Type:</b> Primary
Arkansas	River Valley Relief Cultivation	<b>Lot Number:</b>	<b>Matrix:</b> Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13132187389	<b>Mass:</b> 19g
Greenbrier, AR 72058	Fort Smith, AR 72903	<b>Production Run:</b>	<b>Date Collected:</b> 05/23/2023
License: ADH 113	License: 00065C	5033H20230424RSR-1	<b>Date Received:</b> 05/23/2023
<b>Cultivar (Strain) or Sample Description:</b> Ryleigh's Reserve			<b>Date Completed:</b> 05/25/2023

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

**Analysis Date/Time:** 05/23/2023 1654

**Analyst:** PW

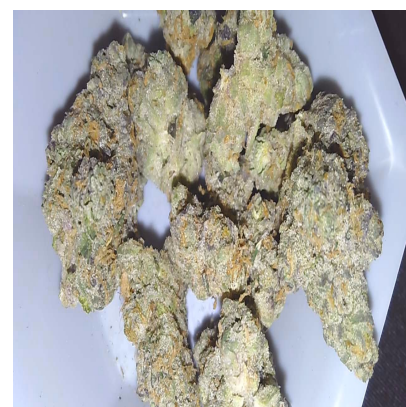
**Method:** HPLC/DAD

**Instrument:** Agilent 1100

**Moisture Content (%):** 13.6

**Water Activity (aw):** 0.469 @ 24.3°C

<u>Cannabinoid</u>	<u>Result</u> (%)	<u>Result</u> (mg/g)	<u>LOD</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	ND	ND	0.0389	0.0907	-	-	-
CBCA	ND	ND	0.121	0.282	-	-	-
CBD	ND	ND	0.274	0.640	-	-	-
CBDV	ND	ND	0.101	0.236	-	-	-
CBDVA	ND	ND	0.0440	0.103	-	-	-
CBG	ND	ND	0.117	0.274	-	-	-
CBGA	0.130	1.30	0.178	0.416	-	1.30	1.30
CBL	0.977	9.77	0.252	0.298	-	9.77	9.77
CBN	ND	ND	0.206	0.480	-	-	-
CBNA	ND	ND	0.0945	0.221	-	-	-
Δ9-THC	ND	ND	0.102	0.238	-	-	-
Δ8-THC	0.156	1.56	0.113	0.264	-	1.56	1.56
THCA	ND	ND	0.177	0.412	-	-	-
THCV	28.8	288	0.0614	0.144	-	288	288
THCVA	ND	ND	0.147	0.343	-	-	-
THCVA	0.172	1.72	0.0471	0.109	-	1.72	1.72
<b>TOTAL</b>	<b>30.3</b>	<b>303</b>			-	<b>303</b>	<b>303</b>
<b>TOTAL CBC</b>	-	-			-	-	-
<b>TOTAL CBD</b>	-	-			-	-	-
<b>TOTAL CBDV</b>	-	-			-	-	-
<b>TOTAL CBG</b>	0.989	9.89			-	9.89	9.89
<b>TOTAL CBN</b>	-	-			-	-	-
<b>TOTAL THC</b>	25.4	254			-	254	254
<b>TOTAL THCV</b>	0.149	1.49			-	1.49	1.49



**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 THCV = (THCVA x 0.867) + THCV

Percentage results are reported by mass.

mg/g results are reported as mass component per mass material.

*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

This information is provided as a service and makes no claims of efficacy and/or safety of this product. Results are applicable only for the sample(s) analyzed and for the specific analysis conducted. This report is for informational purposes only and should not be used to diagnose, treat, or prevent any medical-related symptoms. The statements and results herein have not been approved and/or endorsed by the FDA.

**REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full, without the written consent of Felling Analytical Services and Technology (F.A.S.T.), LLC

[www.FASTLaboratories.com](http://www.FASTLaboratories.com)

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



**CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35289)**

<b>Testing Location:</b>	<b>Customer ID:</b> 2161	<b>Order ID:</b> OR10467	<b>Sample Type:</b> Primary
Arkansas	River Valley Relief Cultivation	<b>Lot Number:</b>	<b>Matrix:</b> Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13132187389	<b>Mass:</b> 19g
Greenbrier, AR 72058	Fort Smith, AR 72903	<b>Production Run:</b>	<b>Date Collected:</b> 05/23/2023
License: ADH 113	License: 00065C	5033H20230424RSR-1	<b>Date Received:</b> 05/23/2023
<b>Cultivar (Strain) or Sample Description:</b> Ryleigh's Reserve			<b>Date Completed:</b> 05/25/2023

**TERPENOID PROFILE**

**Analysis Date/Time:** 05/24/2023 0104

**Method:** GC/MS

**Deviations from SOP:**

**Analyst:** KF

**Instrument:** Agilent 7890/5975

None

<b>Terpene</b>	<b>Result (µg/g)</b>	<b>Result (%)</b>	
α-Bisabolol	59.7	0.00597	
Camphene	157	0.0157	
δ-3-Carene	11.2	0.00112	
β-Caryophyllene	2090	0.209	
Caryophyllene oxide	-	-	
p-Cymene	10.6	0.00106	
Eucalyptol	-	-	
Geraniol	-	-	
Guaiol	-	-	
α-Humulene	549	0.0549	
Isopulegol	-	-	
d-Limonene	4000	0.400	
Linalool	1780	0.178	
β-Myrcene	2890	0.289	
cis-Nerolidol	-	-	
trans-Nerolidol	1090	0.109	
α-Ocimene	-	-	
β-Ocimene	1840	0.184	
α-Pinene	542	0.0542	
β-Pinene	716	0.0716	
α-Terpinene	8.19	0.000819	
γ-Terpinene	4.02	0.000402	
Terpinolene	109	0.0109	
<b>TOTAL</b>	<b>15900</b>	<b>1.59</b>	



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

This information is provided as a service and makes no claims of efficacy and/or safety of this product.

Results are applicable only for the sample(s) analyzed and for the specific analysis conducted.

This report is for informational purposes only and should not be used to diagnose, treat, or prevent any medical-related symptoms.

The statements and results herein have not been approved and/or endorsed by the FDA.

"-" Not detected above RL.

**Reporting Limit (µg/g): 47.9**

**REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full, without the written consent of Felling Analytical Services and Technology (F.A.S.T.), LLC

[www.FASTLaboratories.com](http://www.FASTLaboratories.com)

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



**CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35289)**

<b>Testing Location:</b>	<b>Customer ID:</b> 2161	<b>Order ID:</b> OR10467	<b>Sample Type:</b> Primary
Arkansas	River Valley Relief Cultivation	<b>Lot Number:</b>	<b>Matrix:</b> Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13132187389	<b>Mass:</b> 19g
Greenbrier, AR 72058	Fort Smith, AR 72903	<b>Production Run:</b>	<b>Date Collected:</b> 05/23/2023
License: ADH 113	License: 00065C	5033H20230424RSR-1	<b>Date Received:</b> 05/23/2023
<b>Cultivar (Strain) or Sample Description:</b> Ryleigh's Reserve			<b>Date Completed:</b> 05/25/2023

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

**Analysis Date/Time:** 05/24/2023 1017

**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)	-	0.0424	0.339	0.5	Kresoxim-methyl (143390-89-0)	-	0.0424	0.339	0.4
Acephate (30560-19-1)	-	0.0424	0.339	0.4	Malathion (121-75-5)	-	0.0424	0.339	0.2
Acetaminophen (57960-19-7)	-	0.0424	0.339	2	Metalaxyl (57837-19-1)	-	0.0424	0.339	0.2
Acetamiprid (135410-20-7)	-	0.0424	0.339	0.2	Methiocarb (2032-65-7)	-	0.0424	0.339	0.2
Aldicarb (116-06-3)	-	0.0424	0.339	0.4	Methomyl (16752-77-5)	-	0.0424	0.339	0.4
Azoxystrobin (131860-33-8)	-	0.0424	0.339	0.2	Methyl parathion (298-0-0)	-	0.0424	0.339	0.2
Bifenazate (149877-41-8)	-	0.0424	0.339	0.2	MGK 264 (113-48-4)	-	0.0424	0.339	0.2
Bifenthrin (82657-04-3)	-	0.0424	0.339	0.2	Myclobutanil (88671-89-0)	-	0.0424	0.339	0.2
Boscalid (188425-85-6)	-	0.0424	0.339	0.4	Naled (300-76-5)	-	0.0424	0.339	0.5
Carbaryl (63-25-2)	-	0.0424	0.339	0.2	Oxamyl (23135-22-0)	-	0.0424	0.339	1
Carbofuran (1563-66-2)	-	0.0424	0.339	0.2	Paclobutrazol (76738-62-0)	-	0.0424	0.339	0.4
Chlorantraniliprole (800008-45-7)	-	0.0424	0.339	0.2	Permethrins (52645-53-1)	-	0.0424	0.339	0.2
Chlorfenapyr (122453-73-0)	-	0.0424	0.339	1	Phosmet (732-11-6)	-	0.0424	0.339	0.2
Chlorpyrifos (2921-88-2)	-	0.0424	0.339	0.2	Piperonyl butoxide (51-03-6)	-	0.0424	0.339	2
Clofentezine (74115-24-5)	-	0.0424	0.339	0.2	Prallethrin (2331-36-9)	-	0.0424	0.339	0.2
Cyfluthrin (68359-37-5)	-	0.0424	0.339	1	Propiconazole (60207-90-1)	-	0.0424	0.339	0.4
Cypermethrin (52315-07-8)	-	0.0424	0.339	1	Propoxur (114-26-1)	-	0.0424	0.339	0.2
Daminozide (1596-84-5)	-	0.0424	0.339	1	Pyrethrins (8003-34-7)	-	0.0424	0.339	1
DDVP (62-73-7)	-	0.0424	0.339	0.1	Pyridaben (96489-71-3)	-	0.0424	0.339	0.2
Diazinon (333-41-5)	-	0.0424	0.339	0.2	Spinosad (168316-95-8)	-	0.0424	0.339	0.2
Dimethoate (60-51-5)	-	0.0424	0.339	0.2	Spiromesifen (283594-90-1)	-	0.0424	0.339	0.2
Ethoprophos (13194-48-4)	-	0.0424	0.339	0.2	Spirotetramat (203313-25-1)	-	0.0424	0.339	0.2
Etofenprox (80844-07-1)	-	0.0424	0.339	0.4	Spiroxamine (118134-30-8)	-	0.0424	0.339	0.4
Etiozazole (153233-91-1)	-	0.0424	0.339	0.2	Tebuconazole (80443-41-0)	-	0.0424	0.339	0.4
Fenoxycarb (72490-01-8)	-	0.0424	0.339	0.2	Thiacloprid (111988-49-9)	-	0.0424	0.339	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0424	0.339	0.4	Thiamethoxam (153719-23-4)	-	0.0424	0.339	0.2
Fipronil (120068-37-3)	-	0.0424	0.339	0.4	Trifloxystrobin (141517-21-7)	-	0.0424	0.339	0.2
Flonicamid (158062-67-0)	-	0.0424	0.339	1					
Fludioxinil (131341-86-1)	-	0.0424	0.339	0.4					
Hexythiazox (78587-05-0)	-	0.0424	0.339	1					
Imazalil (35554-44-0)	-	0.0424	0.339	0.2					
Imidacloprid (138261-41-3)	-	0.0424	0.339	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.

**Disclaimer:** This information is provided as a service and makes no claims of efficacy and/or safety of this product. Results are applicable only for the sample(s) analyzed and for the specific analysis conducted. This report is for informational purposes only and should not be used to diagnose, treat, or prevent any medical-related symptoms. The statements and results herein have not been approved and/or endorsed by the FDA.

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		

**REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full, without the written consent of Felling Analytical Services and Technology (F.A.S.T.), LLC

[www.FASTLaboratories.com](http://www.FASTLaboratories.com)

Kyle W. Felling  
Laboratory Director





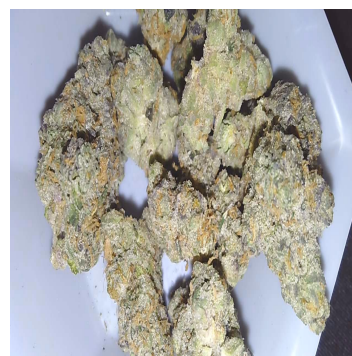
**CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35289)**

<b>Testing Location:</b>	<b>Customer ID:</b> 2161	<b>Order ID:</b> OR10467	<b>Sample Type:</b> Primary
Arkansas	River Valley Relief Cultivation	<b>Lot Number:</b>	<b>Matrix:</b> Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13132187389	<b>Mass:</b> 19g
Greenbrier, AR 72058	Fort Smith, AR 72903	<b>Production Run:</b>	<b>Date Collected:</b> 05/23/2023
License: ADH 113	License: 00065C	5033H20230424RSR-1	<b>Date Received:</b> 05/23/2023
<b>Cultivar (Strain) or Sample Description:</b> Ryleigh's Reserve			<b>Date Completed:</b> 05/25/2023

**HEAVY METAL PROFILE (SOP: SOP-ICP-200.6)**

<b>Analysis Date/Time:</b> 05/23/2023 1707 (ICP/OES)	<b>Method:</b> ICP/MS	<b>Deviations from SOP:</b>
<b>Analysis Date/Time:</b> - (DMA)	<b>Instrument:</b> Agilent 7500ce	None
<b>Analyst:</b> KF		

<b>Heavy Metal</b>	<b>Result (µg/kg)</b>	<b>LOD (µg/kg)</b>	<b>LOQ (µg/kg)</b>	<b>Action Level (µg/kg)</b>
Arsenic (As)	-	56.1	88.8	200
Cadmium (Cd)	-	56.1	88.8	200
Lead (Pb)	-	56.1	88.8	500
Mercury (Hg)	-	56.1	88.8	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**

<b>RESULT &lt; AL</b>
<b>RESULT &gt; AL</b>

"DET" detected less than LOQ

"-" not detected above LOD

Action levels for heavy metals are referenced from the State of Arkansas MMJ testing guidelines.

**Disclaimer:** This information is provided as a service and makes no claims of efficacy and/or safety of this product. Results are applicable only for the sample(s) analyzed and for the specific analysis conducted. This report is for informational purposes only and should not be used to diagnose, treat, or prevent any medical-related symptoms. The statements and results herein have not been approved and/or endorsed by the FDA.

**REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full, without the written consent of  
Felling Analytical Services and Technology (F.A.S.T.), LLC

[www.FASTLaboratories.com](http://www.FASTLaboratories.com)

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



**CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35289)**

<b>Testing Location:</b>	<b>Customer ID:</b> 2161	<b>Sample ID:</b> SA35289	<b>Sample Type:</b> Primary
Arkansas	River Valley Relief Cultivation	<b>Lot Number:</b>	<b>Matrix:</b> Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13132187389	<b>Mass:</b> 19g
Greenbrier, AR 72058	Fort Smith, AR 72903	<b>Production Run:</b>	<b>Date Collected:</b> 05/23/2023
License: ADA 05_H273	License: 00065C	5033H20230424RSR-1	<b>Date Received:</b> 05/23/2023
<b>Cultivar (Strain) or Sample Description:</b> Ryleigh's Reserve			<b>Date Completed:</b> 05/25/2023

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

**Analysis Date/Time:** 05/24/2023 1130      **Method:** Hardy Diagnostics CompactDry      **Deviations from SOP:**  
**Analyst:** PW      **Instrument:** Thermo Incubator      None

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

Action levels for microbiology 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.

**Disclaimer:** This information is provided as a service and makes no claims of efficacy and/or safety of this product. Results are applicable only for the sample(s) analyzed and for the specific analysis conducted. This report is for informational purposes only and should not be used to diagnose, treat, or prevent any medical-related symptoms. The statements and results herein have not been approved and/or endorsed by the FDA.

**REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full, without the written consent of  
 Felling Analytical Services and Technology (F.A.S.T.), LLC

[www.FASTLaboratories.com](http://www.FASTLaboratories.com)

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

