

**SUMMARY OF ANALYSIS (SAMPLE ID: SA36957)**

<b>Testing Location:</b> Arkansas 232 S. Broadview St. Greenbrier, AR 72058 License: ADH 113	<b>Customer ID:</b> 2161 River Valley Relief Cultivation 5601 Old Greenwood Rd Suite C Fort Smith, AR 72903 License: 00065C	<b>Order ID:</b> OR10842 <b>Lot Number:</b> M00065C13138964028 <b>Production Run:</b> 3052H20231221RSR-2	<b>Sample Type:</b> Primary <b>Matrix:</b> Flower <b>Mass:</b> 23g <b>Date Collected:</b> 01/29/2024 <b>Date Received:</b> 01/30/2024
<b>Cultivar (Strain) or Sample Description:</b> Ryleighs Reserve			<b>Date Completed:</b> 01/31/2024

\*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 (%)**

11.4

**Water Activity (aw)**

0.414 @ 24.4°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	26.7	267
CBGA	0.805	8.05
Δ9-THC	0.302	3.02
TOTAL CBD	-	-
TOTAL THC	23.8	238
TOTAL CANNABINOIDS	28.1	281

<b>Terpenes (Top 5)</b>	<b>(%)</b>	<b>µg/g</b>
β-Caryophyllene	1.23	12300
d-Limonene	0.835	8350
Linalool	0.430	4300
β-Myrcene	0.239	2390
β-Pinene	0.105	1050
TOTAL TERPENES	3.03	30300

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



Scan the QR code to verify results.

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**REPORT OF LABORATORY ANALYSIS**

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



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

**Analysis Date/Time:** 01/30/2024 1214      **Method:** HPLC/DAD      **Moisture Content (%):** 11.4  
**Analyst:** PW      **Instrument:** Agilent 1100      **Water Activity (aw):** 0.414 @ 24.4°C

<u>Cannabinoid</u>	<u>Result (%)</u>	<u>Result (mg/g)</u>	<u>LOD (mg/g)</u>	<u>LOQ (mg/g)</u>	<u>Result (mg/mL)</u>	<u>Per Serving (mg)</u>	<u>Per Unit (mg)</u>
CBC	ND	ND	0.0442	0.103	-	-	-
CBCA	ND	ND	0.137	0.321	-	-	-
CBD	ND	ND	0.312	0.729	-	-	-
CBDa	ND	ND	0.115	0.268	-	-	-
CBDV	ND	ND	0.0501	0.117	-	-	-
CBDVA	ND	ND	0.134	0.312	-	-	-
CBG	0.0544	0.544	0.203	0.473	-	0.482	0.482
CBGA	0.805	8.05	0.287	0.339	-	7.14	7.14
CBL	ND	ND	0.234	0.547	-	-	-
CBN	ND	ND	0.108	0.251	-	-	-
CBNA	ND	ND	0.116	0.271	-	-	-
Δ9-THC	0.302	3.02	0.129	0.300	-	2.67	2.67
Δ8-THC	ND	ND	0.201	0.469	-	-	-
THCA	26.7	267	0.0699	0.163	-	237	237
THCV	ND	ND	0.168	0.391	-	-	-
THCVA	0.191	1.91	0.0536	0.125	-	1.70	1.70
<b>TOTAL</b>	<b>28.1</b>	<b>281</b>			<b>-</b>	<b>249</b>	<b>249</b>
<b>TOTAL CBC</b>	<b>-</b>	<b>-</b>			<b>-</b>	<b>-</b>	<b>-</b>
<b>TOTAL CBD</b>	<b>-</b>	<b>-</b>			<b>-</b>	<b>-</b>	<b>-</b>
<b>TOTAL CBDV</b>	<b>-</b>	<b>-</b>			<b>-</b>	<b>-</b>	<b>-</b>
<b>TOTAL CBG</b>	<b>0.762</b>	<b>7.62</b>			<b>-</b>	<b>6.75</b>	<b>6.75</b>
<b>TOTAL CBN</b>	<b>-</b>	<b>-</b>			<b>-</b>	<b>-</b>	<b>-</b>
<b>TOTAL THC</b>	<b>23.8</b>	<b>238</b>			<b>-</b>	<b>210</b>	<b>210</b>
<b>TOTAL THCv</b>	<b>0.166</b>	<b>1.66</b>			<b>-</b>	<b>1.47</b>	<b>1.47</b>



**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 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

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**Cultivar (Strain) or Sample Description:** Ryleighs Reserve **Date Completed:** 01/31/2024

**TERPENOID PROFILE**

**Analysis Date/Time:** 01/31/2024 0009  
**Analyst:** KF

**Method:** GC/MS  
**Instrument:** Agilent 7890/5975

**Deviations from SOP:**  
None

<u>Terpene</u>	<u>Result (µg/g)</u>	<u>Result (%)</u>
α-Bisabolol	22.0	0.00220
Camphene	167	0.0167
δ-3-Carene	ND	-
β-Caryophyllene	12300	1.23
Caryophyllene oxide	4.30	0.000430
p-Cymene	47.8	0.00478
Eucalyptol	ND	-
Geraniol	ND	-
Guaiol	ND	-
α-Humulene	903	0.0903
Isopulegol	ND	-
d-Limonene	8350	0.835
Linalool	4300	0.430
β-Myrcene	2390	0.239
cis-Nerolidol	ND	-
trans-Nerolidol	130	0.0130
α-Ocimene	ND	-
β-Ocimene	ND	-
α-Pinene	648	0.0648
β-Pinene	1050	0.105
α-Terpinene	9.14	0.000914
γ-Terpinene	ND	-
Terpinolene	53.8	0.00538
<b>TOTAL</b>	<b>30300</b>	<b>3.03</b>



*Abbreviations:* GC - Gas Chromatography, MS - Mass Spectrometry, RL - Reporting Limit  
*Abbreviations:* ND - Not Detected, LOD - Limit of Detection, LOQ - Limit of Quantitation

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**Reporting Limit (µg/g): 1.34**

"-" Not detected above LOD.

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

**Analysis Date/Time:** 01/30/2024 1311  
**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)	-	0.0482	0.386	0.5	Kresoxim-methyl (143390-89-0)	-	0.0482	0.386	0.4
Acephate (30560-19-1)	-	0.0482	0.386	0.4	Malathion (121-75-5)	-	0.0482	0.386	0.2
Acetamiprid (135410-20-7)	-	0.0482	0.386	0.2	Metalaxyl (57837-19-1)	-	0.0482	0.386	0.2
Aldicarb (116-06-3)	-	0.0482	0.386	0.4	Methiocarb (2032-65-7)	-	0.0482	0.386	0.2
Azoxystrobin (131860-33-8)	-	0.0482	0.386	0.2	Methomyl (16752-77-5)	-	0.0482	0.386	0.4
Bifenazate (149877-41-8)	-	0.0482	0.386	0.2	Methyl parathion (298-0-0)	-	0.0482	0.386	0.2
Bifenthrin (82657-04-3)	-	0.0482	0.386	0.2	MGK 264 (113-48-4)	-	0.0482	0.386	0.2
Boscalid (188425-85-6)	-	0.0482	0.386	0.4	Myclobutanil (88671-89-0)	-	0.0482	0.386	0.2
Carbaryl (63-25-2)	-	0.0482	0.386	0.2	Naled (300-76-5)	-	0.0482	0.386	0.5
Carbofuran (1563-66-2)	-	0.0482	0.386	0.2	Oxamyl (23135-22-0)	-	0.0482	0.386	1
Chlorantraniliprole (800008-45-7)	-	0.0482	0.386	0.2	Pacllobutrazol (76738-62-0)	-	0.0482	0.386	0.4
Chlorfenapyr (122453-73-0)	-	0.0482	0.386	1	Permethrins (52645-53-1)	-	0.0482	0.386	0.2
Chlorpyrifos (2921-88-2)	-	0.0482	0.386	0.2	Phosmet (732-11-6)	-	0.0482	0.386	0.2
Clofentezine (74115-24-5)	-	0.0482	0.386	0.2	Piperonyl butoxide (51-03-6)	-	0.0482	0.386	2
Cyfluthrin (68359-37-5)	-	0.0482	0.386	1	Prallethrins (2331-36-9)	-	0.0482	0.386	0.2
Cypermethrin (52315-07-8)	-	0.0482	0.386	1	Propiconazole (60207-90-1))	-	0.0482	0.386	0.4
Daminozide (1596-84-5)	-	0.0482	0.386	1	Propoxur (114-26-1)	-	0.0482	0.386	0.2
DDVP (62-73-7)	-	0.0482	0.386	0.1	Pyrethrins (8003-34-7)	-	0.0482	0.386	1
Diazinon (333-41-5)	-	0.0482	0.386	0.2	Pyridaben (96489-71-3)	-	0.0482	0.386	0.2
Dimethoate (60-51-5)	-	0.0482	0.386	0.2	Spinosad (168316-95-8)	-	0.0482	0.386	0.2
Ethoprophos (13194-48-4)	-	0.0482	0.386	0.2	Spiromesifen (283594-90-1)	-	0.0482	0.386	0.2
Etofenprox (80844-07-1)	-	0.0482	0.386	0.4	Spirotetramat (203313-25-1)	-	0.0482	0.386	0.2
Etoxazole (153233-91-1)	-	0.0482	0.386	0.2	Spiroxamine (118134-30-8)	-	0.0482	0.386	0.4
Fenoxycarb (72490-01-8)	-	0.0482	0.386	0.2	Tebuconazole (80443-41-0)	-	0.0482	0.386	0.4
(E)-Fenpyroximate (134098-61-6)	-	0.0482	0.386	0.4	Thiacloprid (111988-49-9)	-	0.0482	0.386	0.2
Fipronil (120068-37-3)	-	0.0482	0.386	0.4	Thiamethoxam (153719-23-4)	-	0.0482	0.386	0.2
Fonicamid (158062-67-0)	-	0.0482	0.386	1	Trifloxystrobin (141517-21-7)	-	0.0482	0.386	0.2
Fludioxinil (131341-86-1)	-	0.0482	0.386	0.4					
Hexythiazox (78587-05-0)	-	0.0482	0.386	1					
Imazalil (35554-44-0)	-	0.0482	0.386	0.2					
Imidacloprid (138261-41-3)	-	0.0482	0.386	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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**HEAVY METAL PROFILE (SOP: SOP-ICP-200.6)**

<b>Analysis Date/Time:</b> 01/31/2024 2002 (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		

<u>Heavy Metal</u>	<u>Result (µg/kg)</u>	<u>LOD (µg/kg)</u>	<u>LOQ (µg/kg)</u>	<u>Action Level (µg/kg)</u>
Arsenic (As)	-	59.4	94.1	200
Cadmium (Cd)	-	59.4	94.1	200
Lead (Pb)	-	59.4	94.1	500
Mercury (Hg)	-	59.4	94.1	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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**MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)**

**Analysis Date/Time:** 01/31/2024 1029      **Method:** Hardy Diagnostics CompactDry      **Deviations from SOP:**  
**Analyst:** PW      **Instrument:** Thermo Incubator      None

<u>Bacteria/Microbe</u>	<u>Result (CFU/g)</u>	<u>Action Level (CFU/g)</u>
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

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