

**SUMMARY OF ANALYSIS (SAMPLE ID: SA37788)**

<b>Testing Location:</b>	<b>Customer ID:</b> 2161	<b>Order ID:</b> OR10989	<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	M00065C13132114500	<b>Mass:</b> 23g
Greenbrier, AR 72058	Fort Smith, AR 72903	<b>Production Run:</b>	<b>Date Collected:</b> 05/06/2024
License: ADH 113	License: 00065C	5061H20240410RSR-1	<b>Date Received:</b> 05/06/2024
<b>Cultivar (Strain) or Sample Description:</b> Ryleighs Reserve			<b>Date Completed:</b> 05/08/2024

\*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 (%)**

12.7

**Water Activity (aw)**

0.464 @ 24.3°C

**PASS/FAIL**

**PASS**

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

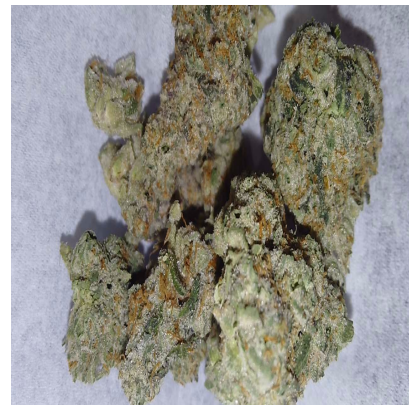
Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

<b>Cannabinoids (Top 3)</b>	<b>(%)</b>	<b>mg/g</b>
THCA	32.6	326
CBGA	1.15	11.5
Δ9-THC	0.517	5.17
TOTAL CBD	-	-
TOTAL THC	29.1	291
TOTAL CANNABINOIDS	34.5	345

<b>Terpenes (Top 5)</b>	<b>(%)</b>	<b>µg/g</b>
d-Limonene	0.698	6980
β-Caryophyllene	0.628	6280
Linalool	0.302	3020
β-Myrcene	0.203	2030
α-Humulene	0.197	1970
TOTAL TERPENES	2.51	25100

<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.

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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:** 05/07/2024 1506

**Method:** HPLC/DAD

**Moisture Content (%):** 12.7

**Analyst:** PW

**Instrument:** Agilent 1100

**Water Activity (aw):** 0.464 @ 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	0.0444	0.104	-	-	-
CBCA	ND	ND	0.138	0.322	-	-	-
CBD	ND	ND	0.313	0.731	-	-	-
CBDV	ND	ND	0.115	0.269	-	-	-
CBDVA	ND	ND	0.134	0.313	-	-	-
CBG	ND	ND	0.203	0.475	-	-	-
CBGA	1.15	11.5	0.288	0.340	-	10.0	10.0
CBL	ND	ND	0.235	0.549	-	-	-
CBN	ND	ND	0.108	0.252	-	-	-
CBNA	ND	ND	0.117	0.272	-	-	-
Δ9-THC	0.517	5.17	0.129	0.302	-	4.51	4.51
Δ8-THC	ND	ND	0.202	0.471	-	-	-
THCA	32.6	326	0.0701	0.164	-	285	285
THCV	ND	ND	0.168	0.392	-	-	-
THCVA	0.208	2.08	0.0538	0.125	-	1.82	1.82
<b>TOTAL</b>	<b>34.5</b>	<b>345</b>			-	<b>301</b>	<b>301</b>
<b>TOTAL CBC</b>	-	-			-	-	-
<b>TOTAL CBD</b>	-	-			-	-	-
<b>TOTAL CBDV</b>	-	-			-	-	-
<b>TOTAL CBG</b>	1.01	10.1			-	8.82	8.82
<b>TOTAL CBN</b>	-	-			-	-	-
<b>TOTAL THC</b>	29.1	291			-	254	254
<b>TOTAL THCV</b>	0.181	1.81			-	1.58	1.58



**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

*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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Percentage results are reported by mass.

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

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**TERPENOID PROFILE**

**Analysis Date/Time:** 05/07/2024 2110  
**Analyst:** KF

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

**Deviations from SOP:**  
None

<b>Terpene</b>	<b>Result (µg/g)</b>	<b>Result (%)</b>	
α-Bisabolol	1190	0.119	■
Camphene	203	0.0203	■
δ-3-Carene	ND	-	
β-Caryophyllene	6280	0.628	■
Caryophyllene oxide	118	0.0118	■
p-Cymene	ND	-	
Eucalyptol	ND	-	
Geraniol	73.0	0.00730	■
Guaiol	ND	-	
α-Humulene	1970	0.197	■
Isopulegol	ND	-	
d-Limonene	6980	0.698	■
Linalool	3020	0.302	■
β-Myrcene	2030	0.203	■
cis-Nerolidol	ND	-	
trans-Nerolidol	726	0.0726	■
α-Ocimene	72.3	0.00723	■
β-Ocimene	253	0.0253	■
α-Pinene	773	0.0773	■
β-Pinene	1280	0.128	■
α-Terpinene	ND	-	
γ-Terpinene	ND	-	
Terpinolene	96.7	0.00967	■
<b>TOTAL</b>	<b>25100</b>	<b>2.51</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): 48.7**

"-" Not detected above LOD.

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

**Analysis Date/Time:** 05/07/2024 1502

**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)	-	0.0485	0.388	0.5	Kresoxim-methyl (143390-89-0)	-	0.0485	0.388	0.4
Acephate (30560-19-1)	-	0.0485	0.388	0.4	Malathion (121-75-5)	-	0.0485	0.388	0.2
Acetaminophen (57960-19-7)	-	0.0485	0.388	2	Metalaxyl (57837-19-1)	-	0.0485	0.388	0.2
Acetamiprid (135410-20-7)	-	0.0485	0.388	0.2	Methiocarb (2032-65-7)	-	0.0485	0.388	0.2
Aldicarb (116-06-3)	-	0.0485	0.388	0.4	Methomyl (16752-77-5)	-	0.0485	0.388	0.4
Azoxystrobin (131860-33-8)	-	0.0485	0.388	0.2	Methyl parathion (298-0-0)	-	0.0485	0.388	0.2
Bifenazate (149877-41-8)	-	0.0485	0.388	0.2	MGK 264 (113-48-4)	-	0.0485	0.388	0.2
Bifenthrin (82657-04-3)	-	0.0485	0.388	0.2	Myclobutanil (88671-89-0)	-	0.0485	0.388	0.2
Boscalid (188425-85-6)	-	0.0485	0.388	0.4	Naled (300-76-5)	-	0.0485	0.388	0.5
Carbaryl (63-25-2)	-	0.0485	0.388	0.2	Oxamyl (23135-22-0)	-	0.0485	0.388	1
Carbofuran (1563-66-2)	-	0.0485	0.388	0.2	Paclobutrazol (76738-62-0)	-	0.0485	0.388	0.4
Chlorantraniliprole (800008-45-7)	-	0.0485	0.388	0.2	Permethrins (52645-53-1)	-	0.0485	0.388	0.2
Chlorfenapyr (122453-73-0)	-	0.0485	0.388	1	Phosmet (732-11-6)	-	0.0485	0.388	0.2
Chlorpyrifos (2921-88-2)	-	0.0485	0.388	0.2	Piperonyl butoxide (51-03-6)	-	0.0485	0.388	2
Clofentezine (74115-24-5)	-	0.0485	0.388	0.2	Prallethrin (2331-36-9)	-	0.0485	0.388	0.2
Cyfluthrin (68359-37-5)	-	0.0485	0.388	1	Propiconazole (60207-90-1))	-	0.0485	0.388	0.4
Cypermethrin (52315-07-8)	-	0.0485	0.388	1	Propoxur (114-26-1)	-	0.0485	0.388	0.2
Daminozide (1596-84-5)	-	0.0485	0.388	1	Pyrethrins (8003-34-7)	-	0.0485	0.388	1
DDVP (62-73-7)	-	0.0485	0.388	0.1	Pyridaben (96489-71-3)	-	0.0485	0.388	0.2
Diazinon (333-41-5)	-	0.0485	0.388	0.2	Spinosad (168316-95-8)	-	0.0485	0.388	0.2
Dimethoate (60-51-5)	-	0.0485	0.388	0.2	Spiromesifen (283594-90-1)	-	0.0485	0.388	0.2
Ethoprophos (13194-48-4)	-	0.0485	0.388	0.2	Spirotetramat (203313-25-1)	-	0.0485	0.388	0.2
Etofenprox (80844-07-1)	-	0.0485	0.388	0.4	Spiroxamine (118134-30-8)	-	0.0485	0.388	0.4
Etoxazole (153233-91-1)	-	0.0485	0.388	0.2	Tebuconazole (80443-41-0)	-	0.0485	0.388	0.4
Fenoxycarb (72490-01-8)	-	0.0485	0.388	0.2	Thiacloprid (111988-49-9)	-	0.0485	0.388	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0485	0.388	0.4	Thiamethoxam (153719-23-4)	-	0.0485	0.388	0.2
Fipronil (120068-37-3)	-	0.0485	0.388	0.4	Trifloxystrobin (141517-21-7)	-	0.0485	0.388	0.2
Flonicamid (158062-67-0)	-	0.0485	0.388	1					
Fludioxinil (131341-86-1)	-	0.0485	0.388	0.4					
Hexythiazox (78587-05-0)	-	0.0485	0.388	1					
Imazalil (35554-44-0)	-	0.0485	0.388	0.2					
Imidacloprid (138261-41-3)	-	0.0485	0.388	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> 05/07/2024 11:11 (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)	-	56.6	89.6	200
Cadmium (Cd)	-	56.6	89.6	200
Lead (Pb)	-	56.6	89.6	500
Mercury (Hg)	-	56.6	89.6	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.

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License: ADA 05_H273	License: 00065C	5061H20240410RSR-1	<b>Date Received:</b> 05/06/2024
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**MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)**

<b>Analysis Date/Time:</b> 05/07/2024 1218	<b>Method:</b> Hardy Diagnostics CompactDry	<b>Deviations from SOP:</b>
<b>Analyst:</b> PW	<b>Instrument:</b> 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.  
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