

SUMMARY OF ANALYSIS (SAMPLE ID: SA37789)

Testing Location:	Customer ID: 2161	Order ID: OR10989	Sample Type: Primary
Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix: Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13136529013	Mass: 23g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 05/06/2024
License: ADH 113	License: 00065C	5061H20240410RSR-3	Date Received: 05/06/2024
Cultivar (Strain) or Sample Description: Ryleighs Reserve			Date Completed: 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 (%)

12.9

Water Activity (aw)

0.463 @ 24.2°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.

Cannabinoids (Top 3)	(%)	mg/g
THCA	32.6	326
CBGA	1.30	13.0
Δ9-THC	0.537	5.37
TOTAL CBD	-	-
TOTAL THC	29.1	291
TOTAL CANNABINOIDS	34.9	349

Terpenes (Top 5)	(%)	µg/g
β-Caryophyllene	0.995	9950
d-Limonene	0.322	3220
α-Humulene	0.308	3080
Linalool	0.244	2440
β-Myrcene	0.243	2430
TOTAL TERPENES	2.54	25400

Contaminants	PASS/FAIL
Heavy Metals:	PASS
Microbiology:	PASS
Pesticides:	PASS

Sample Picture Upon Receipt



Scan the QR code to verify results.

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www.FASTLaboratories.com

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 1519

Method: HPLC/DAD

Moisture Content (%): 12.9

Analyst: PW

Instrument: Agilent 1100

Water Activity (aw): 0.463 @ 24.2°C

<u>Cannabinoid</u>	<u>Result</u> <u>(%)</u>	<u>Result</u> <u>(mg/g)</u>	<u>LOD</u> <u>(mg/g)</u>	<u>LOQ</u> <u>(mg/g)</u>	<u>Result</u> <u>(mg/mL)</u>	<u>Per</u> <u>Serving</u> <u>(mg)</u>	<u>Per</u> <u>Unit</u> <u>(mg)</u>
CBC	ND	ND	0.0450	0.105	-	-	-
CBCA	ND	ND	0.140	0.326	-	-	-
CBD	ND	ND	0.317	0.740	-	-	-
CBDV	ND	ND	0.117	0.273	-	-	-
CBDVA	ND	ND	0.0509	0.119	-	-	-
CBDVA	ND	ND	0.136	0.317	-	-	-
CBG	0.0811	0.811	0.206	0.481	-	0.706	0.706
CBGA	1.30	13.0	0.292	0.344	-	11.3	11.3
CBL	0.224	2.24	0.238	0.555	-	1.95	1.95
CBN	ND	ND	0.109	0.255	-	-	-
CBNA	ND	ND	0.118	0.275	-	-	-
Δ9-THC	0.537	5.37	0.131	0.305	-	4.68	4.68
Δ8-THC	ND	ND	0.204	0.477	-	-	-
THCA	32.6	326	0.0710	0.166	-	284	284
THCV	ND	ND	0.170	0.397	-	-	-
THCVA	0.167	1.67	0.0544	0.127	-	1.45	1.45
TOTAL	34.9	349			-	304	304
TOTAL CBC	-	-			-	-	-
TOTAL CBD	-	-			-	-	-
TOTAL CBDV	-	-			-	-	-
TOTAL CBG	1.22	12.2			-	10.7	10.7
TOTAL CBN	-	-			-	-	-
TOTAL THC	29.1	291			-	254	254
TOTAL THCVA	0.145	1.45			-	1.26	1.26



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 THCVA = (THCVA x 0.867) + THCVA

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

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TERPENOID PROFILE

Analysis Date/Time: 05/07/2024 2134
Analyst: KF

Method: GC/MS
Instrument: Agilent 7890/5975

Deviations from SOP:
None

Terpene	Result (µg/g)	Result (%)	
α-Bisabolol	2150	0.215	■
Camphene	103	0.0103	
δ-3-Carene	ND	-	
β-Caryophyllene	9950	0.995	■
Caryophyllene oxide	167	0.0167	
p-Cymene	ND	-	
Eucalyptol	ND	-	
Geraniol	68.9	0.00689	
Guaiol	ND	-	
α-Humulene	3080	0.308	■
Isopulegol	ND	-	
d-Limonene	3220	0.322	■
Linalool	2440	0.244	■
β-Myrcene	2430	0.243	■
cis-Nerolidol	ND	-	
trans-Nerolidol	818	0.0818	
α-Ocimene	<LOQ	-	
β-Ocimene	<LOQ	-	
α-Pinene	343	0.0343	
β-Pinene	651	0.0651	■
α-Terpinene	ND	-	
γ-Terpinene	ND	-	
Terpinolene	<LOQ	-	
TOTAL	25400	2.54	



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): 49.3

"-" Not detected above LOD.

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PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 05/07/2024 1517

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)	-	0.0491	0.393	0.5	Kresoxim-methyl (143390-89-0)	-	0.0491	0.393	0.4
Acephate (30560-19-1)	-	0.0491	0.393	0.4	Malathion (121-75-5)	-	0.0491	0.393	0.2
Acetaminophen (57960-19-7)	-	0.0491	0.393	2	Metalaxyl (57837-19-1)	-	0.0491	0.393	0.2
Acetamiprid (135410-20-7)	-	0.0491	0.393	0.2	Methiocarb (2032-65-7)	-	0.0491	0.393	0.2
Aldicarb (116-06-3)	-	0.0491	0.393	0.4	Methomyl (16752-77-5)	-	0.0491	0.393	0.4
Azoxystrobin (131860-33-8)	-	0.0491	0.393	0.2	Methyl parathion (298-0-0)	-	0.0491	0.393	0.2
Bifenazate (149877-41-8)	-	0.0491	0.393	0.2	MGK 264 (113-48-4)	-	0.0491	0.393	0.2
Bifenthrin (82657-04-3)	-	0.0491	0.393	0.2	Myclobutanil (88671-89-0)	-	0.0491	0.393	0.2
Boscalid (188425-85-6)	-	0.0491	0.393	0.4	Naled (300-76-5)	-	0.0491	0.393	0.5
Carbaryl (63-25-2)	-	0.0491	0.393	0.2	Oxamyl (23135-22-0)	-	0.0491	0.393	1
Carbofuran (1563-66-2)	-	0.0491	0.393	0.2	Paclobutrazol (76738-62-0)	-	0.0491	0.393	0.4
Chlorantraniliprole (800008-45-7)	-	0.0491	0.393	0.2	Permethrins (52645-53-1)	-	0.0491	0.393	0.2
Chlorfenapyr (122453-73-0)	-	0.0491	0.393	1	Phosmet (732-11-6)	-	0.0491	0.393	0.2
Chlorpyrifos (2921-88-2)	-	0.0491	0.393	0.2	Piperonyl butoxide (51-03-6)	-	0.0491	0.393	2
Clofentezine (74115-24-5)	-	0.0491	0.393	0.2	Prallethrin (2331-36-9)	-	0.0491	0.393	0.2
Cyfluthrin (68359-37-5)	-	0.0491	0.393	1	Propiconazole (60207-90-1)	-	0.0491	0.393	0.4
Cypermethrin (52315-07-8)	-	0.0491	0.393	1	Propoxur (114-26-1)	-	0.0491	0.393	0.2
Daminozide (1596-84-5)	-	0.0491	0.393	1	Pyrethrins (8003-34-7)	-	0.0491	0.393	1
DDVP (62-73-7)	-	0.0491	0.393	0.1	Pyridaben (96489-71-3)	-	0.0491	0.393	0.2
Diazinon (333-41-5)	-	0.0491	0.393	0.2	Spinosad (168316-95-8)	-	0.0491	0.393	0.2
Dimethoate (60-51-5)	-	0.0491	0.393	0.2	Spiromesifen (283594-90-1)	-	0.0491	0.393	0.2
Ethoprophos (13194-48-4)	-	0.0491	0.393	0.2	Spirotetramat (203313-25-1)	-	0.0491	0.393	0.2
Etofenprox (80844-07-1)	-	0.0491	0.393	0.4	Spiroxamine (118134-30-8)	-	0.0491	0.393	0.4
Etazoxole (153233-91-1)	-	0.0491	0.393	0.2	Tebuconazole (80443-41-0)	-	0.0491	0.393	0.4
Fenoxycarb (72490-01-8)	-	0.0491	0.393	0.2	Thiacloprid (111988-49-9)	-	0.0491	0.393	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0491	0.393	0.4	Thiamethoxam (153719-23-4)	-	0.0491	0.393	0.2
Fipronil (120068-37-3)	-	0.0491	0.393	0.4	Trifloxystrobin (141517-21-7)	-	0.0491	0.393	0.2
Flonicamid (158062-67-0)	-	0.0491	0.393	1					
Fludioxinil (131341-86-1)	-	0.0491	0.393	0.4					
Hexythiazox (78587-05-0)	-	0.0491	0.393	1					
Imazalil (35554-44-0)	-	0.0491	0.393	0.2					
Imidacloprid (138261-41-3)	-	0.0491	0.393	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)

Analysis Date/Time: 05/07/2024 19:09 (ICP/OES)	Method: ICP/MS	Deviations from SOP:
Analysis Date/Time: - (DMA)	Instrument: Agilent 7500ce	None
Analyst: KF		

Heavy Metal	Result (µg/kg)	LOD (µg/kg)	LOQ (µg/kg)	Action Level (µg/kg)
Arsenic (As)	-	59.2	93.7	200
Cadmium (Cd)	-	59.2	93.7	200
Lead (Pb)	-	59.2	93.7	500
Mercury (Hg)	-	59.2	93.7	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: 05/07/2024 1218	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	-
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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