

SUMMARY OF ANALYSIS (SAMPLE ID: SA35291)

Testing Location:	Customer ID: 2161	Order ID: OR10467	Sample Type: Primary
Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix: Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13135752241	Mass: 20g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 05/23/2023
License: ADH 113	License: 00065C	5033H20230424RSR-3	Date Received: 05/23/2023
Cultivar (Strain) or Sample Description: Ryleigh's Reserve			Date Completed: 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 (%)

13.5

Water Activity (aw)

0.516 @ 24.6°C

PASS/FAIL

PASS

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

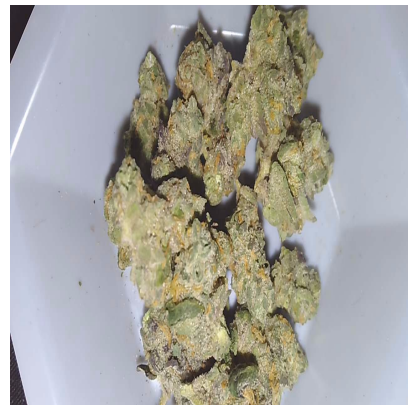
Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

Cannabinoids (Top 3)	(%)	mg/g
THCA	21.9	219
CBGA	0.956	9.56
Δ9-THC	0.715	7.15
TOTAL CBD	-	-
TOTAL THC	19.9	199
TOTAL CANNABINOIDS	23.8	238

Terpenes (Top 5)	(%)	µg/g
d-Limonene	0.444	4440
β-Myrcene	0.273	2730
β-Caryophyllene	0.220	2200
β-Ocimene	0.207	2070
Linalool	0.194	1940
TOTAL TERPENES	1.69	16900

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: 05/23/2023 1716

Method: HPLC/DAD

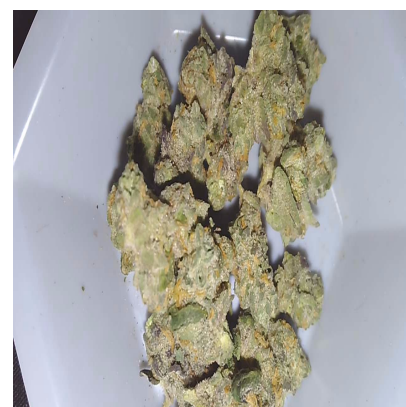
Moisture Content (%): 13.5

Analyst: PW

Instrument: Agilent 1100

Water Activity (aw): 0.516 @ 24.6°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	0.0408	0.0952	-	-	-
CBCA	ND	ND	0.127	0.296	-	-	-
CBD	ND	ND	0.288	0.672	-	-	-
CBDV	ND	ND	0.106	0.247	-	-	-
CBDVA	ND	ND	0.0462	0.108	-	-	-
CBG	ND	ND	0.123	0.287	-	-	-
CBGA	0.115	1.15	0.187	0.436	-	1.15	1.15
CBL	0.956	9.56	0.265	0.312	-	9.56	9.56
CBN	ND	ND	0.216	0.504	-	-	-
CBNA	ND	ND	0.0991	0.231	-	-	-
Δ9-THC	ND	ND	0.107	0.249	-	-	-
Δ8-THC	0.715	7.15	0.119	0.277	-	7.15	7.15
THCA	ND	ND	0.185	0.433	-	-	-
THCV	21.9	219	0.0644	0.151	-	219	219
THCVA	ND	ND	0.155	0.360	-	-	-
THCVA	0.159	1.59	0.0494	0.115	-	1.59	1.59
TOTAL	23.8	238			-	238	238
TOTAL CBC	-	-			-	-	-
TOTAL CBD	-	-			-	-	-
TOTAL CBDV	-	-			-	-	-
TOTAL CBG	0.955	9.55			-	9.55	9.55
TOTAL CBN	-	-			-	-	-
TOTAL THC	19.9	199			-	199	199
TOTAL THCVA	0.138	1.38			-	1.38	1.38



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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License: ADH 113	License: 00065C	5033H20230424RSR-3	Date Received: 05/23/2023
Cultivar (Strain) or Sample Description: Ryleigh's Reserve			Date Completed: 05/25/2023

TERPENOID PROFILE

Analysis Date/Time: 05/24/2023 0213

Method: GC/MS

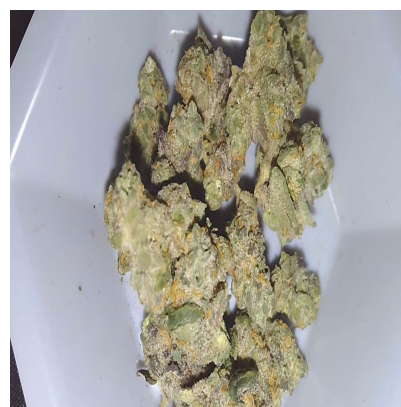
Deviations from SOP:

Analyst: KF

Instrument: Agilent 7890/5975

None

Terpene	Result (µg/g)	Result (%)	
α-Bisabolol	56.6	0.00566	
Camphene	186	0.0186	
δ-3-Carene	10.1	0.00101	
β-Caryophyllene	2200	0.220	
Caryophyllene oxide	-	-	
p-Cymene	11.5	0.00115	
Eucalyptol	-	-	
Geraniol	-	-	
Guaiol	-	-	
α-Humulene	590	0.0590	
Isopulegol	-	-	
d-Limonene	4440	0.444	
Linalool	1940	0.194	
β-Myrcene	2730	0.273	
cis-Nerolidol	136	0.0136	
trans-Nerolidol	901	0.0901	
α-Ocimene	-	-	
β-Ocimene	2070	0.207	
α-Pinene	624	0.0624	
β-Pinene	909	0.0909	
α-Terpinene	8.06	0.000806	
γ-Terpinene	4.46	0.000446	
Terpinolene	96.2	0.00962	
TOTAL	16900	1.69	



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

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"-" Not detected above RL.

Reporting Limit (µg/g): 48.0

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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: OR10467 Lot Number: M00065C13135752241 Production Run: 5033H20230424RSR-3	Sample Type: Primary Matrix: Flower Mass: 20g Date Collected: 05/23/2023 Date Received: 05/23/2023
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Cultivar (Strain) or Sample Description: Ryleigh's Reserve

Date Completed: 05/25/2023

PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 05/24/2023 1048

Method: LC/MS/MS

Deviations from SOP:

Analyst: KF

Instrument: Shimadzu LC-8050

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)	-	0.0446	0.357	0.5	Kresoxim-methyl (143390-89-0)	-	0.0446	0.357	0.4
Acephate (30560-19-1)	-	0.0446	0.357	0.4	Malathion (121-75-5)	-	0.0446	0.357	0.2
Acetaminophen (57960-19-7)	-	0.0446	0.357	2	Metalaxyl (57837-19-1)	-	0.0446	0.357	0.2
Acetamiprid (135410-20-7)	-	0.0446	0.357	0.2	Methiocarb (2032-65-7)	-	0.0446	0.357	0.2
Aldicarb (116-06-3)	-	0.0446	0.357	0.4	Methomyl (16752-77-5)	-	0.0446	0.357	0.4
Azoxystrobin (131860-33-8)	-	0.0446	0.357	0.2	Methyl parathion (298-0-0)	-	0.0446	0.357	0.2
Bifenazate (149877-41-8)	-	0.0446	0.357	0.2	MGK 264 (113-48-4)	-	0.0446	0.357	0.2
Bifenthrin (82657-04-3)	-	0.0446	0.357	0.2	Myclobutanil (88671-89-0)	-	0.0446	0.357	0.2
Boscalid (188425-85-6)	-	0.0446	0.357	0.4	Naled (300-76-5)	-	0.0446	0.357	0.5
Carbaryl (63-25-2)	-	0.0446	0.357	0.2	Oxamyl (23135-22-0)	-	0.0446	0.357	1
Carbofuran (1563-66-2)	-	0.0446	0.357	0.2	Paclobutrazol (76738-62-0)	-	0.0446	0.357	0.4
Chlorantraniliprole (800008-45-7)	-	0.0446	0.357	0.2	Permethrins (52645-53-1)	-	0.0446	0.357	0.2
Chlorfenapyr (122453-73-0)	-	0.0446	0.357	1	Phosmet (732-11-6)	-	0.0446	0.357	0.2
Chlorpyrifos (2921-88-2)	-	0.0446	0.357	0.2	Piperonyl butoxide (51-03-6)	-	0.0446	0.357	2
Clofentezine (74115-24-5)	-	0.0446	0.357	0.2	Prallethrin (2331-36-9)	-	0.0446	0.357	0.2
Cyfluthrin (68359-37-5)	-	0.0446	0.357	1	Propiconazole (60207-90-1)	-	0.0446	0.357	0.4
Cypermethrin (52315-07-8)	-	0.0446	0.357	1	Propoxur (114-26-1)	-	0.0446	0.357	0.2
Daminozide (1596-84-5)	-	0.0446	0.357	1	Pyrethrins (8003-34-7)	-	0.0446	0.357	1
DDVP (62-73-7)	-	0.0446	0.357	0.1	Pyridaben (96489-71-3)	-	0.0446	0.357	0.2
Diazinon (333-41-5)	-	0.0446	0.357	0.2	Spinosad (168316-95-8)	-	0.0446	0.357	0.2
Dimethoate (60-51-5)	-	0.0446	0.357	0.2	Spiromesifen (283594-90-1)	-	0.0446	0.357	0.2
Ethoprophos (13194-48-4)	-	0.0446	0.357	0.2	Spirotetramat (203313-25-1)	-	0.0446	0.357	0.2
Etofenprox (80844-07-1)	-	0.0446	0.357	0.4	Spiroxamine (118134-30-8)	-	0.0446	0.357	0.4
Etoazole (153233-91-1)	-	0.0446	0.357	0.2	Tebuconazole (80443-41-0)	-	0.0446	0.357	0.4
Fenoxycarb (72490-01-8)	-	0.0446	0.357	0.2	Thiacloprid (111988-49-9)	-	0.0446	0.357	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0446	0.357	0.4	Thiamethoxam (153719-23-4)	-	0.0446	0.357	0.2
Fipronil (120068-37-3)	-	0.0446	0.357	0.4	Trifloxystrobin (141517-21-7)	-	0.0446	0.357	0.2
Flonicamid (158062-67-0)	-	0.0446	0.357	1					
Fludioxinil (131341-86-1)	-	0.0446	0.357	0.4					
Hexythiazox (78587-05-0)	-	0.0446	0.357	1					
Imazalil (35554-44-0)	-	0.0446	0.357	0.2					
Imidacloprid (138261-41-3)	-	0.0446	0.357	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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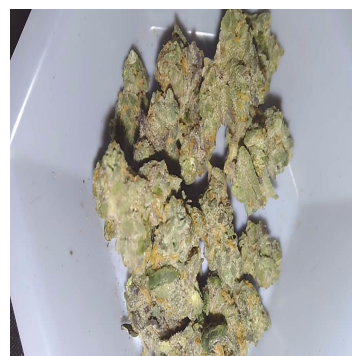
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License: ADH 113	License: 00065C	5033H20230424RSR-3	Date Received: 05/23/2023
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HEAVY METAL PROFILE (SOP: SOP-ICP-200.6)

Analysis Date/Time: 05/23/2023 1717 (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)	-	59.0	93.4	200
Cadmium (Cd)	-	59.0	93.4	200
Lead (Pb)	-	59.0	93.4	500
Mercury (Hg)	-	59.0	93.4	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 < 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: 05/24/2023 1130
Analyst: PW
Method: Hardy Diagnostics CompactDry
Instrument: Thermo Incubator
Deviations from SOP: 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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