

SUMMARY OF ANALYSIS (SAMPLE ID: SA35290)

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	M00065C13130697173	Mass: 22g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 05/23/2023
License: ADH 113	License: 00065C	5033H20230424RSR-2	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 (%)

13.7

Water Activity (aw)

0.465 @ 24.5°C

PASS/FAIL

PASS

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

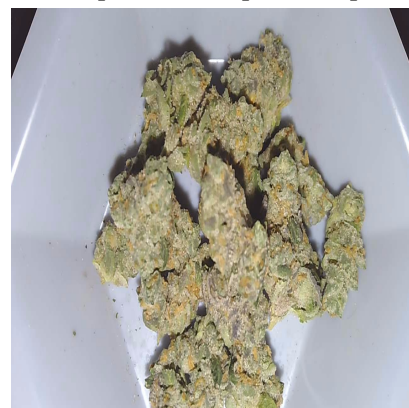
Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

Cannabinoids (Top 3)	(%)	mg/g
THCA	26.6	266
CBGA	0.780	7.80
Δ9-THC	0.324	3.24
TOTAL CBD	-	-
TOTAL THC	23.7	237
TOTAL CANNABINOIDS	28.0	280

Terpenes (Top 5)	(%)	µg/g
d-Limonene	0.469	4690
β-Myrcene	0.240	2400
β-Ocimene	0.217	2170
β-Caryophyllene	0.204	2040
Linalool	0.188	1880
TOTAL TERPENES	1.68	16800

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

www.FASTLaboratories.com



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

Analysis Date/Time: 05/23/2023 1705

Method: HPLC/DAD

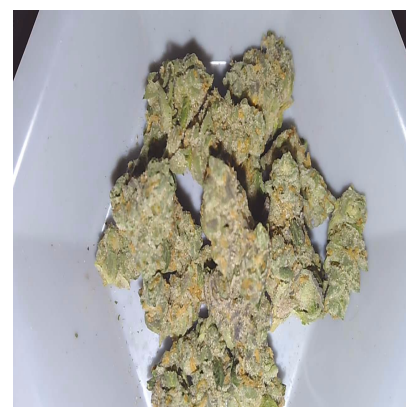
Moisture Content (%): 13.7

Analyst: PW

Instrument: Agilent 1100

Water Activity (aw): 0.465 @ 24.5°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	0.0390	0.0910	-	-	-
CBCA	ND	ND	0.121	0.283	-	-	-
CBD	ND	ND	0.275	0.642	-	-	-
CBDV	ND	ND	0.101	0.236	-	-	-
CBDVA	ND	ND	0.0441	0.103	-	-	-
CBDVA	ND	ND	0.118	0.275	-	-	-
CBG	0.145	1.45	0.179	0.417	-	1.45	1.45
CBGA	0.780	7.80	0.253	0.299	-	7.80	7.80
CBL	ND	ND	0.206	0.482	-	-	-
CBN	ND	ND	0.0947	0.221	-	-	-
CBNA	ND	ND	0.102	0.238	-	-	-
Δ9-THC	0.324	3.24	0.114	0.265	-	3.24	3.24
Δ8-THC	ND	ND	0.177	0.414	-	-	-
THCA	26.6	266	0.0616	0.144	-	266	266
THCV	ND	ND	0.148	0.344	-	-	-
THCVA	0.156	1.56	0.0472	0.110	-	1.56	1.56
TOTAL	28.0	280			-	280	280
TOTAL CBC	-	-			-	-	-
TOTAL CBD	-	-			-	-	-
TOTAL CBDV	-	-			-	-	-
TOTAL CBG	0.830	8.30			-	8.30	8.30
TOTAL CBN	-	-			-	-	-
TOTAL THC	23.7	237			-	237	237
TOTAL THC V	0.135	1.35			-	1.35	1.35



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 THC V = (THCVA x 0.867) + THC V

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: 05/24/2023 0138

Method: GC/MS

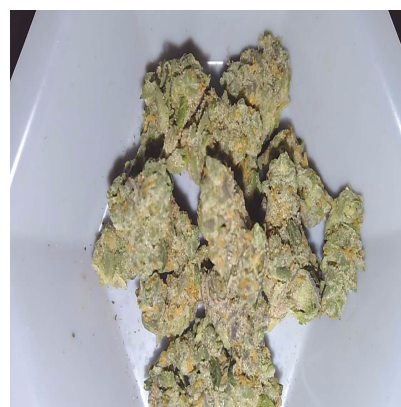
Deviations from SOP:

Analyst: KF

Instrument: Agilent 7890/5975

None

Terpene	Result (µg/g)	Result (%)	
α-Bisabolol	59.1	0.00591	
Camphene	192	0.0192	
δ-3-Carene	11.2	0.00112	
β-Caryophyllene	2040	0.204	
Caryophyllene oxide	-	-	
p-Cymene	13.9	0.00139	
Eucalyptol	-	-	
Geraniol	-	-	
Guaiol	-	-	
α-Humulene	552	0.0552	
Isopulegol	-	-	
d-Limonene	4690	0.469	
Linalool	1880	0.188	
β-Myrcene	2400	0.240	
cis-Nerolidol	125	0.0125	
trans-Nerolidol	947	0.0947	
α-Ocimene	-	-	
β-Ocimene	2170	0.217	
α-Pinene	659	0.0659	
β-Pinene	936	0.0936	
α-Terpinene	9.89	0.000989	
γ-Terpinene	4.13	0.000413	
Terpinolene	122	0.0122	
TOTAL	16800	1.68	



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

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"-" Not detected above RL.

Reporting Limit (µg/g): 49.2

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PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 05/24/2023 1032

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)	-	0.0427	0.341	0.5	Kresoxim-methyl (143390-89-0)	-	0.0427	0.341	0.4
Acephate (30560-19-1)	-	0.0427	0.341	0.4	Malathion (121-75-5)	-	0.0427	0.341	0.2
Acetaminophen (57960-19-7)	-	0.0427	0.341	2	Metalaxyl (57837-19-1)	-	0.0427	0.341	0.2
Acetamiprid (135410-20-7)	-	0.0427	0.341	0.2	Methiocarb (2032-65-7)	-	0.0427	0.341	0.2
Aldicarb (116-06-3)	-	0.0427	0.341	0.4	Methomyl (16752-77-5)	-	0.0427	0.341	0.4
Azoxystrobin (131860-33-8)	-	0.0427	0.341	0.2	Methyl parathion (298-0-0)	-	0.0427	0.341	0.2
Bifenazate (149877-41-8)	-	0.0427	0.341	0.2	MGK 264 (113-48-4)	-	0.0427	0.341	0.2
Bifenthrin (82657-04-3)	-	0.0427	0.341	0.2	Myclobutanil (88671-89-0)	-	0.0427	0.341	0.2
Boscalid (188425-85-6)	-	0.0427	0.341	0.4	Naled (300-76-5)	-	0.0427	0.341	0.5
Carbaryl (63-25-2)	-	0.0427	0.341	0.2	Oxamyl (23135-22-0)	-	0.0427	0.341	1
Carbofuran (1563-66-2)	-	0.0427	0.341	0.2	Paclobutrazol (76738-62-0)	-	0.0427	0.341	0.4
Chlorantraniliprole (800008-45-7)	-	0.0427	0.341	0.2	Permethrins (52645-53-1)	-	0.0427	0.341	0.2
Chlorfenapyr (122453-73-0)	-	0.0427	0.341	1	Phosmet (732-11-6)	-	0.0427	0.341	0.2
Chlorpyrifos (2921-88-2)	-	0.0427	0.341	0.2	Piperonyl butoxide (51-03-6)	-	0.0427	0.341	2
Clofentezine (74115-24-5)	-	0.0427	0.341	0.2	Prallethrin (2331-36-9)	-	0.0427	0.341	0.2
Cyfluthrin (68359-37-5)	-	0.0427	0.341	1	Propiconazole (60207-90-1)	-	0.0427	0.341	0.4
Cypermethrin (52315-07-8)	-	0.0427	0.341	1	Propoxur (114-26-1)	-	0.0427	0.341	0.2
Daminozide (1596-84-5)	-	0.0427	0.341	1	Pyrethrins (8003-34-7)	-	0.0427	0.341	1
DDVP (62-73-7)	-	0.0427	0.341	0.1	Pyridaben (96489-71-3)	-	0.0427	0.341	0.2
Diazinon (333-41-5)	-	0.0427	0.341	0.2	Spinosad (168316-95-8)	-	0.0427	0.341	0.2
Dimethoate (60-51-5)	-	0.0427	0.341	0.2	Spiromesifen (283594-90-1)	-	0.0427	0.341	0.2
Ethoprophos (13194-48-4)	-	0.0427	0.341	0.2	Spirotetramat (203313-25-1)	-	0.0427	0.341	0.2
Etofenprox (80844-07-1)	-	0.0427	0.341	0.4	Spiroxamine (118134-30-8)	-	0.0427	0.341	0.4
Etazoxole (153233-91-1)	-	0.0427	0.341	0.2	Tebuconazole (80443-41-0)	-	0.0427	0.341	0.4
Fenoxycarb (72490-01-8)	-	0.0427	0.341	0.2	Thiacloprid (111988-49-9)	-	0.0427	0.341	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0427	0.341	0.4	Thiamethoxam (153719-23-4)	-	0.0427	0.341	0.2
Fipronil (120068-37-3)	-	0.0427	0.341	0.4	Trifloxystrobin (141517-21-7)	-	0.0427	0.341	0.2
Flonicamid (158062-67-0)	-	0.0427	0.341	1					
Fludioxinil (131341-86-1)	-	0.0427	0.341	0.4					
Hexythiazox (78587-05-0)	-	0.0427	0.341	1					
Imazalil (35554-44-0)	-	0.0427	0.341	0.2					
Imidacloprid (138261-41-3)	-	0.0427	0.341	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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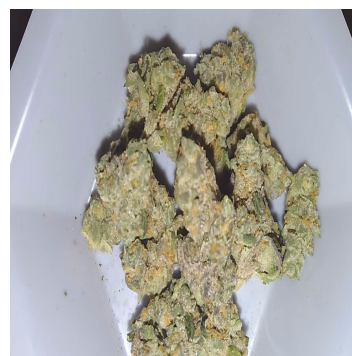
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HEAVY METAL PROFILE (SOP: SOP-ICP-200.6)

Analysis Date/Time: 05/23/2023 1712 (ICP/OES)	Method: ICP/MS	Deviations from SOP:
Analysis Date/Time: - (DMA)	Instrument: Agilent 7500ce	None
Analyst: KF		

<u>Heavy Metal</u>	<u>Result</u> (µg/kg)	<u>LOD</u> (µg/kg)	<u>LOQ</u> (µg/kg)	<u>Action Level</u> (µg/kg)
Arsenic (As)	-	56.9	90.0	200
Cadmium (Cd)	-	56.9	90.0	200
Lead (Pb)	-	56.9	90.0	500
Mercury (Hg)	-	56.9	90.0	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

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"-" 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 **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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