

SUMMARY OF ANALYSIS (SAMPLE ID: SA35039)

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: OR10415 Lot Number: M00065C13130260741 Production Run: 2030H20230314-RTZ-1	Sample Type: Primary Matrix: Flower Mass: 23g Date Collected: 04/24/2023 Date Received: 04/24/2023 Date Completed: 04/27/2023
Cultivar (Strain) or Sample Description: Runtz			

*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 (%)

12.2

Water Activity (aw)

0.461 @ 24.7°C

PASS/FAIL

PASS

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

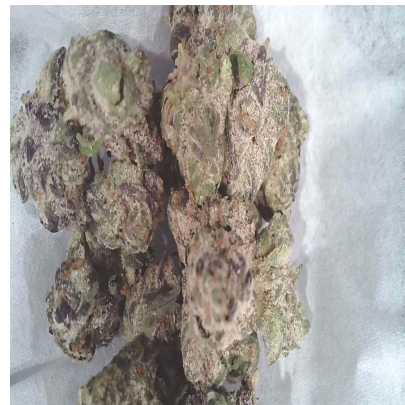
Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

Cannabinoids (Top 3)	(%)	mg/g
THCA	30.3	303
Δ9-THC	0.765	7.65
CBGA	0.378	3.78
TOTAL CBD	-	-
TOTAL THC	27.3	273
TOTAL CANNABINOIDS	31.5	315

Terpenes (Top 5)	(%)	µg/g
Linalool	0.295	2950
β-Myrcene	0.271	2710
d-Limonene	0.254	2540
β-Caryophyllene	0.205	2050
β-Pinene	0.105	1050
TOTAL TERPENES	1.62	16200

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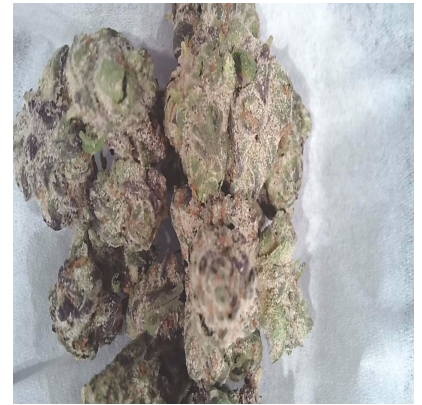
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CANNABINOID (POTENCY) PROFILE (SOP: SOP-CANN-001)

Analysis Date/Time: 04/26/2023 1546 **Method:** HPLC/DAD **Moisture Content (%):** 12.2
Analyst: PW **Instrument:** Agilent 1100 **Water Activity (aw):** 0.461 @ 24.7°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	0.182	0.424	-	-	-
CBCA	ND	ND	0.564	1.32	-	-	-
CBD	ND	ND	1.28	2.99	-	-	-
CBDV	ND	ND	0.472	1.10	-	-	-
CBDVA	ND	ND	0.548	1.28	-	-	-
CBG	<LOQ	<LOQ	0.832	1.94	-	-	-
CBGA	0.378	3.78	0.596	1.39	-	3.78	3.78
CBL	ND	ND	0.961	2.24	-	-	-
CBN	ND	ND	0.441	1.03	-	-	-
CBNA	ND	ND	0.476	1.11	-	-	-
Δ9-THC	0.765	7.65	0.529	1.23	-	7.65	7.65
Δ8-THC	ND	ND	0.825	1.93	-	-	-
THCA	30.3	303	0.287	0.671	-	303	303
THCV	ND	ND	0.688	1.60	-	-	-
THCVA	0.104	1.04	0.220	0.512	-	1.04	1.04
TOTAL	31.5	315			-	315	315
TOTAL CBC	-	-			-	-	-
TOTAL CBD	-	-			-	-	-
TOTAL CBDV	-	-			-	-	-
TOTAL CBG	0.332	3.32			-	3.32	3.32
TOTAL CBN	-	-			-	-	-
TOTAL THC	27.3	273			-	273	273
TOTAL THC V	0.0902	0.902			-	0.902	0.902



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.

* CBCA, CBDVA, CBL, CBNA, and THCVA are in process of being added to our accreditation scope.

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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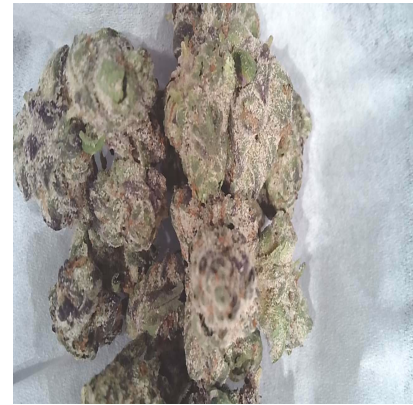
TERPENOID PROFILE

Analysis Date/Time: 04/26/2023 1801
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	645	0.0645	■
Camphene	513	0.0513	■
δ-3-Carene	-	-	
β-Caryophyllene	2050	0.205	■
Caryophyllene oxide	435	0.0435	■
p-Cymene	-	-	
Eucalyptol	-	-	
Geraniol	-	-	
Guaiol	-	-	
α-Humulene	956	0.0956	■
Isopulegol	-	-	
d-Limonene	2540	0.254	■
Linalool	2950	0.295	■
β-Myrcene	2710	0.271	■
cis-Nerolidol	-	-	
trans-Nerolidol	658	0.0658	■
α-Ocimene	138	0.0138	■
β-Ocimene	359	0.0359	■
α-Pinene	732	0.0732	■
β-Pinene	1050	0.105	■
α-Terpinene	-	-	
γ-Terpinene	-	-	
Terpinolene	484	0.0484	■
TOTAL	16200	1.62	



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

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"-" Not detected above RL.

Reporting Limit (µg/g): 39.8

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



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PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 04/26/2023 1632
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)	-	0.0398	0.318	0.5	Kresoxim-methyl (143390-89-0)	-	0.0398	0.318	0.4
Acephate (30560-19-1)	-	0.0398	0.318	0.4	Malathion (121-75-5)	-	0.0398	0.318	0.2
Acetaminocyl (57960-19-7)	-	0.0398	0.318	2	Metalaxyl (57837-19-1)	-	0.0398	0.318	0.2
Acetamiprid (135410-20-7)	-	0.0398	0.318	0.2	Methiocarb (2032-65-7)	-	0.0398	0.318	0.2
Aldicarb (116-06-3)	-	0.0398	0.318	0.4	Methomyl (16752-77-5)	-	0.0398	0.318	0.4
Azoxystrobin (131860-33-8)	-	0.0398	0.318	0.2	Methyl parathion (298-0-0)	-	0.0398	0.318	0.2
Bifenazate (149877-41-8)	-	0.0398	0.318	0.2	MGK 264 (113-48-4)	-	0.0398	0.318	0.2
Bifenthrin (82657-04-3)	-	0.0398	0.318	0.2	Myclobutanil (88671-89-0)	-	0.0398	0.318	0.2
Boscalid (188425-85-6)	-	0.0398	0.318	0.4	Naled (300-76-5)	-	0.0398	0.318	0.5
Carbaryl (63-25-2)	-	0.0398	0.318	0.2	Oxamyl (23135-22-0)	-	0.0398	0.318	1
Carbofuran (1563-66-2)	-	0.0398	0.318	0.2	Pacllobutrazol (76738-62-0)	-	0.0398	0.318	0.4
Chlorantraniliprole (800008-45-7)	-	0.0398	0.318	0.2	Permethrins (52645-53-1)	-	0.0398	0.318	0.2
Chlorfenapyr (122453-73-0)	-	0.0398	0.318	1	Phosmet (732-11-6)	-	0.0398	0.318	0.2
Chlorpyrifos (2921-88-2)	-	0.0398	0.318	0.2	Piperonyl butoxide (51-03-6)	-	0.0398	0.318	2
Clofentezine (74115-24-5)	-	0.0398	0.318	0.2	Prallethrins (2331-36-9)	-	0.0398	0.318	0.2
Cyfluthrin (68359-37-5)	-	0.0398	0.318	1	Propiconazole (60207-90-1))	-	0.0398	0.318	0.4
Cypermethrin (52315-07-8)	-	0.0398	0.318	1	Propoxur (114-26-1)	-	0.0398	0.318	0.2
Daminozide (1596-84-5)	-	0.0398	0.318	1	Pyrethrins (8003-34-7)	-	0.0398	0.318	1
DDVP (62-73-7)	-	0.0398	0.318	0.1	Pyridaben (96489-71-3)	-	0.0398	0.318	0.2
Diazinon (333-41-5)	-	0.0398	0.318	0.2	Spinosad (168316-95-8)	-	0.0398	0.318	0.2
Dimethoate (60-51-5)	-	0.0398	0.318	0.2	Spiromesifen (283594-90-1)	-	0.0398	0.318	0.2
Ethoprophos (13194-48-4)	-	0.0398	0.318	0.2	Spirotetramat (203313-25-1)	-	0.0398	0.318	0.2
Etofenprox (80844-07-1)	-	0.0398	0.318	0.4	Spiroxamine (118134-30-8)	-	0.0398	0.318	0.4
Etoxazole (153233-91-1)	-	0.0398	0.318	0.2	Tebuconazole (80443-41-0)	-	0.0398	0.318	0.4
Fenoxycarb (72490-01-8)	-	0.0398	0.318	0.2	Thiacloprid (111988-49-9)	-	0.0398	0.318	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0398	0.318	0.4	Thiamethoxam (153719-23-4)	-	0.0398	0.318	0.2
Fipronil (120068-37-3)	-	0.0398	0.318	0.4	Trifloxystrobin (141517-21-7)	-	0.0398	0.318	0.2
Fonicamid (158062-67-0)	-	0.0398	0.318	1					
Fludioxinil (131341-86-1)	-	0.0398	0.318	0.4					
Hexythiazox (78587-05-0)	-	0.0398	0.318	1					
Imazalil (35554-44-0)	-	0.0398	0.318	0.2					
Imidacloprid (138261-41-3)	-	0.0398	0.318	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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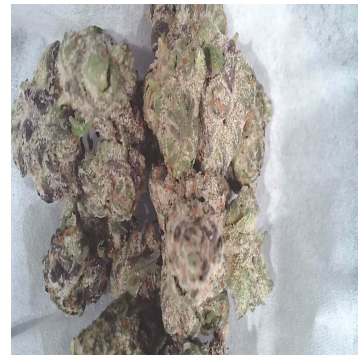
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HEAVY METAL PROFILE (SOP: SOP-ICP-200.7)

Analysis Date/Time: 04/25/2023 1704 (ICP/OES) **Method:** ICP/OES **Deviations from SOP:**
Analysis Date/Time: - (DMA) **Instrument:** Agilent 720-ES 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)	-	58.6	92.7	200
Cadmium (Cd)	-	58.6	92.7	200
Lead (Pb)	-	58.6	92.7	500
Mercury (Hg)	-	58.6	92.7	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



"DET" detected less than LOQ
 "-" not detected above LOD

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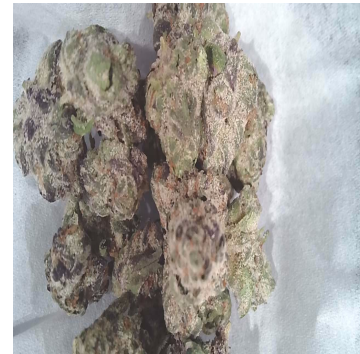
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MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 20230426 1104 **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	1
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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