







SUMMARY OF ANALYSIS (SAMPLE ID: SA35038)

Order ID: OR10415 **Testing Location:** Customer ID: 2161 Sample Type: Primary Arkansas River Valley Relief Cultivation Lot Number: Matrix: Flower 232 S. Broadview St. 5601 Old Greenwood Rd Suite C M00065C13139968752 **Mass:** 23g

Greenbrier, AR 72058 Fort Smith, AR 72903 **Production Run: Date Collected:** 04/24/2023 2030H20230314RTZ-2 License: ADH 113 License: 00065C **Date Received:** 04/24/2023 Cultivar (Strain) or Sample Description: Runtz **Date Completed:** 04/27/2023

*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

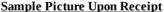
PASS/FAIL Water Activity (aw) **Moisture Content (%)** 12.9 0.486 @ 24.5°C **PASS**

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.

<u>Cannabino</u>	oids (Top 3)	<u>(%)</u>	mg/g
TH	CA	31.9	319
Δ9-7	ГНС	0.633	6.33
CB	GA	0.552	5.52
TOTA	L CBD	-	-
TOTA	LTHC	28.6	286
TOTAL CAN	NABINOIDS	33.3	333
Terpenes (Top 5)		<u>(%)</u>	<u>µg/g</u>
Lina	alool	0.375	3750
β-Му	rcene	0.315	3150
β-Caryo	phyllene	0.291	2910
d-Lim	onene	0.284	2840
α-Hun	nulene	0.122	1220
TOTAL T	ERPENES	1.90	19000
Contaminants	PASS/FAIL	Sample Pictur	e Upon Receipt

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







Scan the QR code to verify results.

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Testing Location: Arkansas

232 S. Broadview St. Greenbrier, AR 72058

License: ADH 113

Cultivar (Strain) or Sample Description: Runtz

Customer ID: 2161

River Valley Relief Cultivation 5601 Old Greenwood Rd Suite C

Fort Smith, AR 72903 License: 00065C

Order ID: OR10415 Lot Number:

M00065C13139968752

Production Run: 2030H20230314RTZ-2 Sample Type: Primary

Matrix: Flower **Mass:** 23g

Date Collected: 04/24/2023 **Date Received:** 04/24/2023

Date Completed: 04/27/2023

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

Method: HPLC/DAD **Analysis Date/Time:** 04/26/2023 1535 Moisture Content (%): 12.9

Analyst: PW Instrument: Agilent 1100

Water Activity (aw): 0.486 @ 24.51°C



SERVING MASS (g): 1.00 **SERVINGS/UNIT: 1**

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 = $(CBCA \times 0.877) + CBC$ Total CBD = $(CBDA \times 0.877) + CBD$ Total CBDV = $(CBDVA \times 0.867) + CBDV$ Total CBG = $(CBGA \times 0.878) + CBG$ Total CBN = $(CBNA \times 0.876) + CBN$ Total THC = (THCA x 0.877) + Δ 9-THC Total THCV = (THCVA x 0.867) + THCV

Percentage results are reported by mass.

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

<u>Cannabinoid</u>	Result (%)	Result (mg/g)	<u>LOD</u> (mg/g)	LOQ (mg/g)	Result (mg/ mL)	Per Serving (mg)	<u>Per</u> (<u>Unit</u> (<u>mg</u>)
CBC	ND	ND	0.197	0.459	-	-	-
CBCA	ND	ND	0.611	1.42	-	-	-
CBD	ND	ND	1.39	3.24	-	-	-
CBDA	ND	ND	0.510	1.19	-	-	-
CBDV	ND	ND	0.222	0.519	-	-	-
CBDVA	ND	ND	0.593	1.38	-	-	-
CBG	<loq< td=""><td><loq< td=""><td>0.900</td><td>2.10</td><td>-</td><td>-</td><td>-</td></loq<></td></loq<>	<loq< td=""><td>0.900</td><td>2.10</td><td>-</td><td>-</td><td>-</td></loq<>	0.900	2.10	-	-	-
CBGA	0.552	5.52	0.645	1.51	-	5.52	5.52
CBL	ND	ND	1.04	2.43	-	-	-
CBN	ND	ND	0.478	1.12	-	-	-
CBNA	ND	ND	0.516	1.20	-	-	-
Δ9-ΤΗС	0.633	6.33	0.573	1.33	-	6.33	6.33
Δ8-ΤΗС	ND	ND	0.893	2.09	-	-	-
THCA	31.9	319	0.310	0.726	-	319	319
THCV	ND	ND	0.745	1.74	-	-	-
THCVA	0.139	1.39	0.238	0.554	-	1.39	1.39
TOTAL	33.3	333		-,	-	333	333
TOTAL CBC	-	-		-,		-	-
TOTAL CBD	-	-			-	-	-
TOTAL CBDV	-	-			-	-	-
TOTAL CBG	0.484	4.84			-	4.84	4.84
TOTAL CBN	-	-			-	-	-
TOTAL THC	28.6	286			-	286	286
TOTAL THCV	0.120	1.20			-	1.20	1.20
* 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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[&]quot;-" Not detected above LOD.









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

> Result <u>(%)</u>

0.0653

0.0561

0.291

0.0475

0.122

0.284

0.375

0.315

0.0798

0.0147

0.0803

0.118

0.0525

1.90

License: 00065C

Order ID: OR10415 Lot Number:

M00065C13139968752

Production Run: 2030H20230314RTZ-2 Sample Type: Primary

Matrix: Flower **Mass:** 23g

Date Collected: 04/24/2023 **Date Received:** 04/24/2023

Date Completed: 04/27/2023

TERPENOID PROFILE

Analysis Date/Time:04/26/2023 1740

Cultivar (Strain) or Sample Description: Runtz

Result

 $(\mu g/g)$

653

561

2910

475

1220

2840

3750

3150

798

147

803

1180

525

19000

Analyst: KF

Terpene

α-Bisabolol

Camphene

δ-3-Carene β-Caryophyllene

oxide p-Cymene Eucalyptol Geraniol Guaiol

Caryophyllene

α-Humulene

Isopulegol

Linalool

β-Myrcene

cis-Nerolidol

α-Ocimene

β-Ocimene

α-Pinene

B-Pinene

TOTAL

α-Terpinene y-Terpinene Terpinolene

trans-Nerolidol

d-Limonene

Method: GC/MS

Instrument: Agilent 7890/5975

Deviations from SOP:

None



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

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"-" Not detected above RL

Reporting Limit (µg/g): 43.0





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04/27/2023









Testing Location:

Arkansas 232 S. Broadview St. Greenbrier, AR 72058

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:

M00065C13139968752

Production Run: 2030H20230314RTZ-2

Sample Type: Primary

Matrix: Flower **Mass:** 23g

Date Collected: 04/24/2023 **Date Received:** 04/24/2023

Date Completed: 04/27/2023

PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 04/26/2023 1703

Cultivar (Strain) or Sample Description: Runtz

Analyst: KF

Method: LC/MS/MS

Instrument: Shimadzu LC-8050

Deviations from SOP:

None

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<u>Pesticide</u>	Result (μg/g)	<u>LOD</u> (µg/g)	LOQ (µg/g)	<u>Action</u> <u>Level</u> (μg/g)	<u>Pesticide</u>	Result (μg/g)	<u>LOD</u> (µg/g)	LOQ (µg/g)	<u>Action</u> <u>Level</u> (μg/g)
Abamectin (71751-41-2)	-	0.0430	0.344	0.5	Kresoxim-methyl	_	0.0430	0.344	0.4
Acephate (30560-19-1)	-	0.0430	0.344	0.4	(143390-89-0)				
Acequinocyl (57960-19-7)	-	0.0430	0.344	2	Malathion (121-75-5)	-	0.0430	0.344	0.2
Acetamiprid (135410-20-7)	-	0.0430	0.344	0.2	Metalaxyl (57837-19-1) Methiocarb (2032-65-7)	-	0.0430 0.0430	0.344 0.344	0.2 0.2
Aldicarb (116-06-3)	_	0.0430	0.344	0.4	Methomyl (16752-77-5)	_	0.0430	0.344	0.4
Azoxystrobin (131860-33-8)	-	0.0430	0.344	0.2	Methyl parathion (298-0-0)	-	0.0430	0.344	0.2
Bifenazate (149877-41-8)	-	0.0430	0.344	0.2	MGK 264 (113-48-4)	-	0.0430	0.344	0.2
Bifenthrin (82657-04-3)	-	0.0430	0.344	0.2	Myclobutanil		0.0430	0.344	0.2
Boscalid (188425-85-6)	-	0.0430	0.344	0.4	(88671-89-0)	_	0.0430	0.344	0.2
Carbaryl (63-25-2)	-	0.0430	0.344	0.2	Naled (300-76-5)	-	0.0430	0.344	0.5
Carbofuran (1563-66-2)	-	0.0430	0.344	0.2	Oxamyl (23135-22-0)	-	0.0430	0.344	1
Chlorantraniliprole (800008-45-7)	-	0.0430	0.344	0.2	Paclobutrazol (76738-62-0)	-	0.0430	0.344	0.4
Chlorfenapyr (122453-73-0)	-	0.0430	0.344	1	Permethrins (52645-53-1) Phosmet (732-11-6)	-	0.0430 0.0430	0.344 0.344	0.2 0.2
Chlorpyrifos (2921-88-2)	-	0.0430	0.344	0.2	Piperonyl butoxide		0.0430	0.344	2
Clofentezine (74115-24-5)	-	0.0430	0.344	0.2	(51-03-6)				_
Cyfluthrin (68359-37-5)	-	0.0430	0.344	1	Prallethrins (2331-36-9)	-	0.0430	0.344	0.2
Cypermethrin (52315-07-8)	-	0.0430	0.344	1	Propiconazole (60207-90-1))	-	0.0430	0.344	0.4
Daminozide (1596-84-5)	-	0.0430	0.344	1	Propoxur (114-26-1)	-	0.0430	0.344	0.2
DDVP (62-73-7)	-	0.0430	0.344	0.1	Pyrethrins (8003-34-7)	-	0.0430	0.344	1
Diazinon (333-41-5)	-	0.0430	0.344	0.2	Pyridaben (96489-71-3)	-	0.0430	0.344	0.2
Dimethoate (60-51-5)	-	0.0430	0.344	0.2	Spinosad (168316-95-8)	-	0.0430	0.344	0.2
Ethoprophos (13194-48-4)	-	0.0430	0.344	0.2	Spiromesifen (283594-90-1)	_	0.0430	0.344	0.2
Etofenprox (80844-07-1)	-	0.0430	0.344	0.4	Spirotetramat				
Etoxazole (153233-91-1)	-	0.0430	0.344	0.2	(203313-25-1)	-	0.0430	0.344	0.2
Fenoxycarb (72490-01-8)	-	0.0430	0.344	0.2	Spiroxamine	_	0.0430	0.344	0.4
(E)-Fenpyroximate (134098-61-6)	-	0.0430	0.344	0.4	(118134-30-8) Tebuconazole		0.0430	0.344	0.4
Fipronil (120068-37-3)	-	0.0430	0.344	0.4	(80443-41-0)		0.0430	0.544	0.4
Flonicamid (158062-67-0)	-	0.0430	0.344	1	Thiacloprid (111988-49-9)	_	0.0430	0.344	0.2
Fludioxinil (131341-86-1)	-	0.0430	0.344	0.4	Thiamethoxam				
Hexythiazox (78587-05-0)	-	0.0430	0.344	1	(153719-23-4)	-	0.0430	0.344	0.2
Imazalil (35554-44-0)	-	0.0430	0.344	0.2	Trifloxystrobin		0.0430	0.344	0.2
Imidacloprid (138261-41-3)	-	0.0430	0.344	0.4	(141517-21-7)		0.0-450	0.544	J. <u>Z</u>



Color Key

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

<u>Pesticide</u>	Synonym(s)	<u>Pesticide</u>	Synonym(s)	<u>Pesticide</u>	Synonym(s)
Cyfluthrin	Baythroid	Myclobutanil	Systhane	Propiconazole	Tilt
DDVP	Dichlorvos	Naled	Dibrom	Propoxur	Baygon
Ethoprophos	Prophos	Phosmet	Imidan		





REPORT OF LABORATORY ANALYSIS









Testing Location: Customer ID: 2161 **Order ID:** OR10415 Arkansas River Valley Relief Cultivation **Lot Number:**

232 S. Broadview St. 5601 Old Greenwood Rd Suite C

Greenbrier, AR 72058 Fort Smith, AR 72903 License: ADH 113 License: 00065C

Cultivar (Strain) or Sample Description: Runtz

rder ID: OR10415 Sample Type: Primary

Lot Number: Matrix: Flower M00065C13139968752 Mass: 23g

Production Run:Date Collected: 04/24/20232030H20230314RTZ-2Date Received: 04/24/2023

Date Completed: 04/27/2023

HEAVY METAL PROFILE (SOP: SOP-ICP-200.7)

Analysis Date/Time: 04/25/2023 1700 (ICP/OES) Method: ICP/OES Deviations from SOP:

Analysis Date/Time: - (DMA) Instrument: Agilent 720-ES None

Analyst: KF

Heavy Metal	<u>Result</u> (μg/kg)	<u>LOD</u> (µg/kg)	LOQ (µg/kg)	<u>Action Level</u> (μg/kg)
Arsenic (As)	-	58.9	93.3	200
Cadmium (Cd)	-	58.9	93.3	200
Lead (Pb)	-	58.9	93.3	500
Mercury (Hg)	-	58.9	93.3	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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License: ADA 05 H273





2030H20230314RTZ-2



Date Received: 04/24/2023

CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35038)

Testing Location:Customer ID: 2161Sample ID: SA35038Sample Type: PrimaryArkansasRiver Valley Relief CultivationLot Number:Matrix: Flower

232 S. Broadview St. 5601 Old Greenwood Rd Suite C M00065C13139968752 **Mass:** 23g
Greenbrier, AR 72058 Fort Smith, AR 72903 **Production Run: Date Collected:** 04/24/2023

Cultivar (Strain) or Sample Description: Runtz

Date Completed: 04/27/2023

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	<u>Result</u> (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	-

License: 00065C



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)

Action levels for microbiology 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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