







SUMMARY OF ANALYSIS (SAMPLE ID: SA36335)

Testing Location:Customer ID: 2161On the control of the contro

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

Cultivar (Strain) or Sample Description: Runtz

Order ID: OR10682 Lot Number: M00065C13137541157

Production Run: 4046H20231012RTZ-1 **Sample Type:** Primary

Matrix: Flower **Mass:** 20g

Date Collected: 10/30/2023 **Date Received:** 10/31/2023

Date Completed: 11/01/2023

*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 (%)
 Water Activity (aw)
 PASS/FAIL

 13.2
 0.460 @ 24.4°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>Cannabin</u>	oids (Top 3)	<u>(%)</u>	mg/g
TH	CA	33.1	331
Δ9-′	ГНС	0.582	5.82
CB	GA	0.302	3.02
TOTA	L CBD	-	-
TOTA	LTHC	29.6	296
TOTAL CAN	NABINOIDS	34.2	342
<u>Terpene</u>	s (Top 5)	<u>(%)</u>	µg/g
d-Lim	onene	0.391	3910
β-Му	rcene	0.344	3440
Lina	alool	0.341	3410
β-Caryo	phyllene	0.335	3350
trans-N	erolidol	0.0919	919
TOTAL T	ERPENES	1.69	16900
Contaminants	PASS/FAIL	Sample Dictur	e Unon Receint

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







Scan the QR code to verify results.

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 Testing Location:
 Customer ID: 2161
 Order ID: OR10682
 Sample Type: Primary

 Arkansas
 River Valley Relief Cultivation
 Lot Number:
 Matrix: Flower

 232 S. Broadview St.
 5601 Old Greenwood Rd Suite C
 M00065C13137541157
 Mass: 20g

 Greenbrier, AR 72058
 Fort Smith, AR 72903
 Production Run:
 Date Collected: 10/30/2023

 License: ADH 113
 License: 00065C
 4046H20231012RTZ-1
 Date Received: 10/31/2023

Cultivar (Strain) or Sample Description: Runtz

Date Completed: 11/01/2023

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

Analysis Date/Time: 10/31/2023 1730 Method: HPLC/DAD Moisture Content (%): 13.2

Analyst: PW Instrument: Agilent 1100 Water Activity (aw): 0.460 @ 24.4°C

<u>Cannabinoid</u>	Result (%)	Result (mg/g)	LOD (mg/g)	LOQ (mg/g)	Result (mg/ mL)	Per Serving (mg)	Per Unit (mg)
CBC	ND	ND	0.0406	0.0947	-	-	-
CBCA	ND	ND	0.126	0.294	-	-	-
CBD	ND	ND	0.286	0.668	-	-	-
CBDA	ND	ND	0.105	0.246	-	-	-
CBDV	ND	ND	0.0459	0.107	-	-	-
CBDVA	ND	ND	0.122	0.286	-	-	-
CBG	0.0950	0.950	0.186	0.434	-	0.825	0.825
CBGA	0.302	3.02	0.263	0.311	-	2.62	2.62
CBL	ND	ND	0.215	0.501	-	-	-
CBN	ND	ND	0.0986	0.230	-	-	-
CBNA	ND	ND	0.106	0.248	-	-	-
Δ9-ΤΗС	0.582	5.82	0.118	0.275	-	5.06	5.06
Δ8-ΤΗС	ND	ND	0.184	0.430	-	-	-
THCA	33.1	331	0.0641	0.150	-	288	288
THCV	ND	ND	0.154	0.358	-	-	-
THCVA	0.111	1.11	0.0491	0.114	-	0.968	0.968
TOTAL	34.2	342				297	297
TOTAL CBC	-	-		,		-	-
TOTAL CBD	-	-			-	-	-
TOTAL CBDV	-	-			-	-	-
TOTAL CBG	0.360	3.60			-	3.13	3.13
TOTAL CBN	-	-			-	-	-
TOTAL THC	29.6	296			-	257	257
TOTAL THCV	0.0967	0.967			-	0.839	0.839

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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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 = (CBDA 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) + 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.





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11/01/2023



Cultivar (Strain) or Sample Description: Runtz

License: ADH 113







CERTIFICATE OF ANALYSIS (SAMPLE ID: SA36335)

Testing Location:Customer ID: 2161ArkansasRiver Valley Relief Cultivation232 S. Broadview St.5601 Old Greenwood Rd Suite CGreenbrier, AR 72058Fort Smith, AR 72903

License: 00065C

Order ID: OR10682 Lot Number: M00065C13137541157 Production Run:

4046H20231012RTZ-1

Sample Type: Primary **Matrix:** Flower **Mass:** 20g

Date Collected: 10/30/2023 **Date Received:** 10/31/2023

Date Completed: 11/01/2023

TERPENOID PROFILE

Analysis Date/Time:11/1/2023 0142Method: GC/MSDeviations from SOP:Analyst: KFInstrument: Agilent 7890/5975None

<u>Terpene</u>	Result (µg/g)	Result (%)	
α-Bisabolol	ND	-	
Camphene	178	0.0178	
δ-3-Carene	ND	-	
β-Caryophyllene	3350	0.335	
Caryophyllene oxide	ND	-	
p-Cymene	ND	-	
Eucalyptol	ND	-	
Geraniol	ND	-	
Guaiol	ND	-	
α-Humulene	712	0.0712	
Isopulegol	ND	-	
d-Limonene	3910	0.391	
Linalool	3410	0.341	
β-Myrcene	3440	0.344	
cis-Nerolidol	ND	-	
trans-Nerolidol	919	0.0919	
α-Ocimene	ND	-	
β-Ocimene	ND	-	
α-Pinene	445	0.0445	
β-Pinene	504	0.0504	
α-Terpinene	ND	-	
γ-Terpinene	ND	-	
Terpinolene	ND	-	
TOTAL	16900	1.69	



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): 74.1

"-" Not detected above LOD.





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11/01/2023









Order ID: OR10682 **Testing Location:** Customer ID: 2161 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

Cultivar (Strain) or Sample Description: Runtz

License: 00065C

M00065C13137541157

Production Run: 4046H20231012RTZ-1 Sample Type: Primary

Matrix: Flower Mass: 20g

Date Collected: 10/30/2023 **Date Received:** 10/31/2023

Date Completed: 11/01/2023

PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 10/31/2023 1812 Method: LC/MS/MS **Deviations from SOP:**

Analyst: KF Instrument: Shimadzu LC-8050 None

<u>Pesticide</u>	<u>Result</u> (μg/g)	<u>LOD</u> (µg/g)	<u>LOQ</u> (µg/g)	Action Level (µg/g)	<u>Pesticide</u>	<u>Result</u> (μg/g)	<u>LOD</u> (µg/g)	<u>LOQ</u> (µg/g)	<u>Action</u> <u>Level</u> (μg/g)
Abamectin (71751-41-2)	-	0.0442	0.353	0.5	Kresoxim-methyl	_	0.0442	0.353	0.4
Acephate (30560-19-1)	-	0.0442	0.353	0.4	(143390-89-0)				
Acequinocyl (57960-19-7)	-	0.0442	0.353	2	Malathion (121-75-5)	-	0.0442	0.353	0.2
Acetamiprid (135410-20-7)	-	0.0442	0.353	0.2	Metalaxyl (57837-19-1) Methiocarb (2032-65-7)	-	0.0442 0.0442	0.353 0.353	0.2 0.2
Aldicarb (116-06-3)	-	0.0442	0.353	0.4	Methomyl (16752-77-5)	-	0.0442	0.353	0.4
Azoxystrobin (131860-33-8)	-	0.0442	0.353	0.2	Methyl parathion (298-0-0)	-	0.0442	0.353	0.2
Bifenazate (149877-41-8)	-	0.0442	0.353	0.2	MGK 264 (113-48-4)	-	0.0442	0.353	0.2
Bifenthrin (82657-04-3)	-	0.0442	0.353	0.2	Myclobutanil	_	0.0442	0.353	0.2
Boscalid (188425-85-6)	-	0.0442	0.353	0.4	(88671-89-0)				
Carbaryl (63-25-2)	-	0.0442	0.353	0.2	Naled (300-76-5)	-	0.0442	0.353	0.5
Carbofuran (1563-66-2)	-	0.0442	0.353	0.2	Oxamyl (23135-22-0)	-	0.0442	0.353	1
Chlorantraniliprole (800008-45-7)	-	0.0442	0.353	0.2	Paclobutrazol (76738-62-0)	-	0.0442	0.353	0.4
Chlorfenapyr		0.0442	0.353	1	Permethrins (52645-53-1)	-	0.0442	0.353	0.2
(122453-73-0)	_	0.0442	0.333	1	Phosmet (732-11-6)	-	0.0442	0.353	0.2
Chlorpyrifos (2921-88-2)	-	0.0442	0.353	0.2	Piperonyl butoxide	_	0.0442	0.353	2
Clofentezine (74115-24-5)	-	0.0442	0.353	0.2	(51-03-6)		0.0440	0.252	0.2
Cyfluthrin (68359-37-5)	-	0.0442	0.353	1	Prallethrins (2331-36-9)	-	0.0442	0.353	0.2
Cypermethrin (52315-07-8)	-	0.0442	0.353	1	Propiconazole (60207-90-1))	-	0.0442	0.353	0.4
Daminozide (1596-84-5)	-	0.0442	0.353	1	Propoxur (114-26-1)	-	0.0442	0.353	0.2
DDVP (62-73-7)	-	0.0442	0.353	0.1	Pyrethrins (8003-34-7)	-	0.0442	0.353	1
Diazinon (333-41-5)	-	0.0442	0.353	0.2	Pyridaben (96489-71-3)	-	0.0442	0.353	0.2
Dimethoate (60-51-5)	-	0.0442	0.353	0.2	Spinosad (168316-95-8)	-	0.0442	0.353	0.2
Ethoprophos (13194-48-4)	-	0.0442	0.353	0.2	Spiromesifen (283594-90-1)	-	0.0442	0.353	0.2
Etofenprox (80844-07-1)	-	0.0442	0.353	0.4	Spirotetramat				
Etoxazole (153233-91-1)	-	0.0442	0.353	0.2	(203313-25-1)	-	0.0442	0.353	0.2
Fenoxycarb (72490-01-8)	-	0.0442	0.353	0.2	Spiroxamine		0.0443	0.252	0.4
(E)-Fenpyroximate (134098-61-6)	-	0.0442	0.353	0.4	(118134-30-8) Tebuconazole	-	0.0442	0.353	0.4
Fipronil (120068-37-3)	-	0.0442	0.353	0.4	(80443-41-0)	-	0.0442	0.353	0.4
Flonicamid (158062-67-0)	-	0.0442	0.353	1	Thiacloprid	2	0.0442	0.353	0.2
Fludioxinil (131341-86-1)	-	0.0442	0.353	0.4	(111988-49-9)		· · -	2.200	J
Hexythiazox (78587-05-0)	-	0.0442	0.353	1	Thiamethoxam (153719-23-4)		0.0442	0.353	0.2
Imazalil (35554-44-0)	-	0.0442	0.353	0.2	Trifloxystrobin				
Imidacloprid (138261-41-3)	-	0.0442	0.353	0.4	(141517-21-7)	-	0.0442	0.353	0.2



Color Key

"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

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		













Testing Location:Customer ID: 2161Order ID: OR10682Sample Type: PrimaryArkansasRiver Valley Relief CultivationLot Number:Matrix: Flower232 S. Broadview St.5601 Old Greenwood Rd Suite CM00065C13137541157Mass: 20g

Greenbrier, AR 72058 Fort Smith, AR 72903 **Production Run:** Date Collected: 10/30/2023 License: ADH 113 License: 00065C 4046H20231012RTZ-1 Date Received: 10/31/2023 Cultivar (Strain) or Sample Description: Runtz Date Completed: 11/01/2023

HEAVY METAL PROFILE (SOP: SOP-ICP-200.6)

Analysis Date/Time: 10/31/2023 1804 (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)	LOQ (µg/kg)	<u>Action Level</u> (μg/kg)
Arsenic (As)	-	59.3	93.8	200
Cadmium (Cd)	-	59.3	93.8	200
Lead (Pb)	-	59.3	93.8	500
Mercury (Hg)	-	59.3	93.8	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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Testing Location:Customer ID: 2161Sample ID: SA36335Sample Type: PrimaryArkansasRiver Valley Relief CultivationLot Number:Matrix: Flower

 232 S. Broadview St.
 5601 Old Greenwood Rd Suite C
 M00065C13137541157
 Mass: 20g

 Greenbrier, AR 72058
 Fort Smith, AR 72903
 Production Run:
 Date Collected: 10/30/2023

 License: ADA 05 H273
 License: 00065C
 4046H20231012RTZ-1
 Date Received: 10/31/2023

Cultivar (Strain) or Sample Description: Runtz

Date Completed: 11/01/2023

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 11/01/2023 0904 **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	-
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)

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