







SUMMARY OF ANALYSIS (SAMPLE ID: SA34034)

Testing Location:	Customer ID: 2161	Order ID: OR10246	Sample Type: Primary		
Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix: Flower		
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13131069226	Mass: 17g		
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 01/04/2023		
License: ADH 113	License: 00065C	3017H20221103RTZ-3	Date Received: 01/04/2023		
Cultivar (Strain) or Sample Description: RuntzDate Completed: 01/11/2023					

*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
13.7	0.463 @ 24.7°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>Cannabinoids (Top 3)</u>	<u>(%)</u>	<u>mg/g</u>
THCA	21.6	216
Δ9-ΤΗϹ	1.31	13.1
THCVA	0.160	1.60
TOTAL CBD	-	-
TOTAL THC	20.3	203
TOTAL CANNABINOIDS	23.1	231
<u>Terpenes (Top 5)</u>	<u>(%)</u>	µg∕g
<u>Terpenes (Top 5)</u> Linalool	<u>(%)</u> 0.276	µg/g 2760
Linalool	0.276	2760
Linalool β-Caryophyllene	0.276 0.176	2760 1760
Linalool β-Caryophyllene β-Myrcene	0.276 0.176 0.149	2760 1760 1490

PASS/FAIL
PASS
PASS
PASS





Scan the QR code to verify results.

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CERTIFICATE OF ANALYSIS (SAMPLE ID: SA34034)

Testing Location:	Customer ID: 2161			
Arkansas	River Valley Relief Cultivation			
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				

Order ID: OR10246 Lot Number: M00065C13131069226 **Production Run:** 3017H20221103RTZ-3

Sample Type: Primary Matrix: Flower **Mass:** 17g Date Collected: 01/04/2023 Date Received: 01/04/2023 Date Completed: 01/11/2023

Cultivar (Strain) or Sample Description: Runtz

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

Analysis Date/Time: 01/06/2023 1710 Analyst: PW

Method: HPLC/DAD Instrument: Agilent 1100

<u>Cannabinoid</u>	<u>Result</u> (%)	<u>UM</u> (+/-%)	<u>Result</u> (mg/g)	LOQ (mg/g)	<u>Result</u> (mg/ mL)	<u>Per</u> Serving (mg)	<u>Per</u> Unit (mg)
CBC	-	-	-	1.01	-	-	-
CBCA	-	-	-	3.12	-	-	-
CBD	-	-	-	7.09	-	-	-
CBDA	-	-	-	2.61	-	-	-
CBDV	-	-	-	1.14	-	-	-
CBDVA	-	-	-	3.03	-	-	-
CBG	-	-	-	4.61	-	-	-
CBGA	-	-	-	3.30	-	-	-
CBL	-	-	-	5.32	-	-	-
CBN	-	-	-	2.44	-	-	-
CBNA	-	-	-	2.63	-	-	-
Δ9-ТНС	1.31	0.118	13.1	2.92	-	13.1	13.1
Δ8- THC	-	-	-	4.57	-	-	-
THCA	21.6	1.95	216	1.59	-	216	216
THCV	-	-	-	3.81	-	-	-
THCVA	0.160	0.0144	1.60	1.21	-	1.60	1.60
TOTAL	23.1	2.08	231		-	231	231
TOTAL CBC	-	-	-		-	-	-
TOTAL CBD	-	-	-		-	-	-
TOTAL CBDV	-	-	-		-	-	-
TOTAL CBG	-	-	-		-	-	-
TOTAL CBN	-	-	-		-	-	-
TOTAL THC	20.3	1.83	203		-	203	203
TOTAL THCV	0.139	0.0125	1.39		-	1.39	1.39

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

"-" Not detected above LOD.

Moisture Content (%): 13.7

Water Activity (aw): 0.463 @ 24.67°C

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 x 0.877) + CBD Total CBDV = (CBDVA x 0.867) + CBDV Total CBG = $(CBGA \times 0.878) + CBG$ 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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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			

Order ID: OR10246 Lot Number: M00065C13131069226 **Production Run:** 3017H20221103RTZ-3 Sample Type: Primary Matrix: Flower **Mass:** 17g Date Collected: 01/04/2023 Date Received: 01/04/2023 Date Completed: 01/11/2023

Analysis Date/Time:01/10/2023 1249

TERPENOID PROFILE

Method: GC/MS

Analyst: KF	Instrument: Agilent 7890/5975					
<u>Terpene</u>	<u>Result</u> (µg/g)	<u>Result</u> (%)				
α-Bisabolol	-	-				
Camphene	-	-				
δ-3-Carene	-	-				
β-Caryophyllene	1760	0.176				
Caryophyllene oxide	-	-				
p-Cymene	-	-				
Eucalyptol	-	-				
Geraniol	-	-	I			
Guaiol	-	-				
α-Humulene	138	0.0138				
Isopulegol	-	-				
d-Limonene	1370	0.137				
Linalool	2760	0.276				
β-Myrcene	1490	0.149				
cis-Nerolidol	-	-				
trans-Nerolidol	490	0.0490				
α-Ocimene	-	-				
β-Ocimene	-	-				
α-Pinene	-	-				
β-Pinene	202	0.0202				
α-Terpinene	-	-				
γ-Terpinene	-	-				
Terpinolene	-	-				
TOTAL	8210	0.821				



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): 42.1













CERTIFICATE OF ANALYSIS (SAMPLE ID: SA34034)

Testing Location:	Customer ID: 2161	Order ID: OR10246			
Arkansas	River Valley Relief Cultivation	Lot Number:			
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13131069226			
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:			
License: ADH 113	License: 00065C	3017H20221103RTZ-3			
Cultivar (Strain) or Sample Description: Runtz					

Sample Type: Primary Matrix: Flower **Mass:** 17g Date Collected: 01/04/2023 Date Received: 01/04/2023 Date Completed: 01/11/2023

Analysis Date/Time: 01/10/2023 2109 Analyst: KF

PESTICIDES PROFILE (SOP: SOP-PEST-001)

Method: LC/MS/MS Instrument: Shimadzu LC-8050

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)	<u>Action</u> Level (µg/g)	<u>Pesticide</u>	<u>Result</u> (µg/g)	<u>LOD</u> (µg/g)	<u>LOQ</u> (µg/g)	<u>Action</u> Level (µg/g)	
Abamectin (71751-41-2)	-	0.0421	0.337	0.5	Kresoxim-methyl	-	0.0421	0.337	0.4	
Acephate (30560-19-1)	-	0.0421	0.337	0.4	(143390-89-0)		0.0421	0.227	0.2	
Acequinocyl (57960-19-7)	-	0.0421	0.337	2	Malathion (121-75-5)	-	0.0421	0.337	0.2	
Acetamiprid (135410-20-7)	-	0.0421	0.337	0.2	Metalaxyl (57837-19-1) Methiocarb (2032-65-7)	-	0.0421 0.0421	0.337 0.337	0.2 0.2	
Aldicarb (116-06-3)	-	0.0421	0.337	0.4	Methomyl (16752-77-5)	-	0.0421	0.337	0.4	
Azoxystrobin (131860-33-8)	-	0.0421	0.337	0.2	Methyl parathion (298-0-0)	-	0.0421	0.337	0.2	
Bifenazate (149877-41-8)	-	0.0421	0.337	0.2	MGK 264 (113-48-4)	-	0.0421	0.337	0.2	
Bifenthrin (82657-04-3)	-	0.0421	0.337	0.2	Myclobutanil		0.0421	0.337	0.2	
Boscalid (188425-85-6)	-	0.0421	0.337	0.4	(88671-89-0)					
Carbaryl (63-25-2)	-	0.0421	0.337	0.2	Naled (300-76-5)	-	0.0421	0.337	0.5	
Carbofuran (1563-66-2)	-	0.0421	0.337	0.2	Oxamyl (23135-22-0)	-	0.0421	0.337	1	c
Chlorantraniliprole (800008-45-7)	-	0.0421	0.337	0.2	Paclobutrazol (76738-62-0)	-	0.0421	0.337	0.4	
Chlorfenapyr	_	0.0421	0.337	1	Permethrins (52645-53-1)	-	0.0421	0.337	0.2	
(122453-73-0)					Phosmet (732-11-6)	-	0.0421	0.337	0.2	р
Chlorpyrifos (2921-88-2)	-	0.0421	0.337	0.2	Piperonyl butoxide (51-03-6)	-	0.0421	0.337	2	
Clofentezine (74115-24-5)	-	0.0421	0.337	0.2	(31-03-0) Prallethrins (2331-36-9)	_	0.0421	0.337	0.2	1
Cyfluthrin (68359-37-5)	-	0.0421	0.337	1	Propiconazole					
Cypermethrin (52315-07-8)	-	0.0421	0.337	1	(60207-90-1))	-	0.0421	0.337	0.4	
Daminozide (1596-84-5)	-	0.0421	0.337	1	Propoxur (114-26-1)	-	0.0421	0.337	0.2	
DDVP (62-73-7)	-	0.0421	0.337	0.1	Pyrethrins (8003-34-7)	-	0.0421	0.337	1	-
Diazinon (333-41-5)	-	0.0421	0.337	0.2	Pyridaben (96489-71-3)	-	0.0421	0.337	0.2	
Dimethoate (60-51-5)	-	0.0421	0.337	0.2	Spinosad (168316-95-8)	-	0.0421	0.337	0.2	
Ethoprophos (13194-48-4)	-	0.0421	0.337	0.2	Spiromesifen (283594-90-1)	-	0.0421	0.337	0.2	
Etofenprox (80844-07-1)	-	0.0421	0.337	0.4	Spirotetramat					n
Etoxazole (153233-91-1)	-	0.0421	0.337	0.2	(203313-25-1)	-	0.0421	0.337	0.2	
Fenoxycarb (72490-01-8)	-	0.0421	0.337	0.2	Spiroxamine	_	0.0421	0.337	0.4	ć
(E)-Fenpyroximate (134098-61-6)	-	0.0421	0.337	0.4	(118134-30-8) Tebuconazole		0.0421	0.337	0.4	а
Fipronil (120068-37-3)	-	0.0421	0.337	0.4	(80443-41-0)	-	0.0421	0.557	0.4	
Flonicamid (158062-67-0)	-	0.0421	0.337	1	Thiacloprid	-	0.0421	0.337	0.2	
Fludioxinil (131341-86-1)	-	0.0421	0.337	0.4	(111988-49-9) Thiamethoxam					s
Hexythiazox (78587-05-0)	-	0.0421	0.337	1	(153719-23-4)	-	0.0421	0.337	0.2	
Imazalil (35554-44-0)	-	0.0421	0.337	0.2	Trifloxystrobin		0.0421	0.227	0.2	
Imidacloprid (138261-41-3)	-	0.0421	0.337	0.4	(141517-21-7)		0.0421	0.337	0.2	

Deviations from SOP:

None



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 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 Myclobutanil Baythroid Systhane Propiconazole Tilt DDVP Dichlorvos Naled Dibrom Propoxur Baygon Phosmet Imidan Ethoprophos Prophos



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232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13131069226	Mass: 17g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 01/04/2023
License: ADH 113	License: 00065C	3017H20221103RTZ-3	Date Received: 01/04/2023
Cultivar (Strain) or Sample	Date Completed: 01/11/2023		

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

Analysis Date/Time: 01/07/2023 1003 (ICP/OES) Analysis Date/Time: - (DMA) Analyst: KF				hod: ICP/OES rument: Agilent 720	Deviations from SOP: D-ES None
<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)	-	59.8	94.8	200	
Cadmium (Cd)	-	59.8	94.8	200	A CARLES AND A CARLES
Lead (Pb)	-	59.8	94.8	500	A Strange Strange
Mercury (Hg)		59.8	94.8	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

<u>Color Key</u>



"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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Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix: Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13131069226	Mass: 17g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 01/04/2023
License: ADA 05_H273	License: 00065C	3017H20221103RTZ-3	Date Received: 01/04/2023
Cultivar (Strain) or Sample Description: Runtz			Date Completed: 01/11/2023

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 1/7/2022 Analyst: PW		Iardy Diagnostics CompactDry nt: Thermo Incubator	Deviations from SOP: None
Bacteria/Microbe	<u>Result</u> (CFU/g)	<u>Action Level</u> (CFU/g)	
Aerobic Plate Count	NT	-	
Coliforms, Total	Absent	1	The And
Escherichia Coli (E. Coli)	Absent	100	A WAR BESSER
Mold/Yeast	NT	-	
Pseudomonas aeruginosa	NT	1	
Salmonella spp.	NT	-	A AND THE AND AND A
Staphylococcus aureus	NT	-	ALL A

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





Reporting Limit (CFU/g) 1

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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