







## SUMMARY OF ANALYSIS (SAMPLE ID: SA35037)

Testing Location:	Customer ID: 2161	<b>Order ID:</b> OR10415	Sample Type: Primary
Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix: Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13135737851	Mass: 8g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 04/24/2023
License: ADH 113	License: 00065C	2030H20230314RTZ-3	Date Received: 04/24/2023
Cultivar (Strain) or Sample De	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.

Moisture Content (%)	Water Activity (aw)	PASS/FAIL
11.0	0.434 @ 24.3°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>	mg/g
THCA	26.7	267
Δ9-ТНС	0.747	7.47
CBGA	0.277	2.77
TOTAL CBD	-	_
TOTAL THC	24.2	242
TOTAL CANNABINOIDS	27.8	278
<u>Terpenes (Top 5)</u>	<u>(%)</u>	µg∕g
<u>Terpenes (Top 5)</u> Linalool	<u>(%)</u> 0.269	<b>µg/g</b> 2690
Linalool	0.269	2690
Linalool β-Myrcene	0.269 0.226	2690 2260
Linalool β-Myrcene d-Limonene	0.269 0.226 0.213	2690 2260 2130

<u>Contaminants</u>	PASS/FAIL
Heavy Metals:	PASS
Microbiology:	PASS
Pesticides:	PASS





Scan the QR code to verify results.

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REPORT OF LABORATORY ANALYSIS

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Moisture Content (%): 11

Water Activity (aw): 0.434 @ 24.34°C



## **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35037)**

Testing Location:	Customer ID: 2161	Order ID: OR10415		
Arkansas	<b>River Valley Relief Cultivation</b>	Lot Number:		
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13135737851		
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:		
License: ADH 113	License: 00065C	2030H20230314RTZ-3		
Cultivar (Strain) or Sample Description: Runtz				

Sample Type: Primary Matrix: Flower Mass: 8g Date Collected: 04/24/2023 Date Received: 04/24/2023 Date Completed: 04/27/2023

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

Analysis Date/Time: 04/26/2023 1514 Analyst: PW Method: HPLC/DAD Instrument: Agilent 1100

<u>Cannabinoid</u>	<u>Result</u> (%)	<u>Result</u> (mg/g)	<u>LOD</u> (mg/g)	<u>LOQ</u> (mg/g)	<u>Result</u> (mg/ mL)	<u>Per</u> Serving (mg)	<u>Per</u> g <u>Unit</u> ( <u>mg)</u>
CBC	ND	ND	0.192	0.447	-	-	-
CBCA	ND	ND	0.595	1.39	-	-	-
CBD	ND	ND	1.35	3.15	-	-	-
CBDA	ND	ND	0.497	1.16	-	-	-
CBDV	ND	ND	0.217	0.506	-	-	-
CBDVA	ND	ND	0.578	1.35	-	-	-
CBG	<loq< td=""><td><loq< td=""><td>0.877</td><td>2.05</td><td>-</td><td>-</td><td>-</td></loq<></td></loq<>	<loq< td=""><td>0.877</td><td>2.05</td><td>-</td><td>-</td><td>-</td></loq<>	0.877	2.05	-	-	-
CBGA	0.277	2.77	0.628	1.47	-	2.77	2.77
CBL	ND	ND	1.01	2.37	-	-	-
CBN	ND	ND	0.465	1.09	-	-	-
CBNA	ND	ND	0.502	1.17	-	-	-
Δ9-ΤΗC	0.747	7.47	0.558	1.30	-	7.47	7.47
Δ8-THC	ND	ND	0.870	2.03	-	-	-
THCA	26.7	267	0.302	0.707	-	267	267
THCV	ND	ND	0.726	1.69	-	-	-
THCVA	0.0959	0.959	0.232	0.539	-	0.959	0.959
TOTAL	27.8	278				278	278
TOTAL CBC	-	-			-	-	-
TOTAL CBD	-	-			-	-	-
TOTAL CBDV	-	-			-	-	-
TOTAL CBG	0.243	2.43			-	2.43	2.43
TOTAL CBN	-	-			-	-	-
TOTAL THC	24.2	242			-	242	242
TOTAL THCV	0.0831	0.831			-	0.831	0.831

\* 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.

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) +  $\Delta$ 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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<u>Result</u>

(%)

0.0522

0.199

0.0445

0.0986

0.213

0.269

0.226

0.0644

0.0145

\_

0.0706

0.0971



Analyzed on behalf of:



# **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35037)**

Testing Location:	Customer ID: 2161	0		
Arkansas	River Valley Relief Cultivation	I		
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	N		
Greenbrier, AR 72058	Fort Smith, AR 72903	F		
License: ADH 113	License: 00065C	2		
Cultivar (Strain) or Sample Description: Runtz				

Order ID: OR10415 Lot Number: M00065C13135737851 **Production Run:** 2030H20230314RTZ-3 Sample Type: Primary Matrix: Flower Mass: 8g Date Collected: 04/24/2023 Date Received: 04/24/2023 Date Completed: 04/27/2023

Analysis Date/Time:04/26/2023 1656 Analyst: KF Terpene **Result**  $(\mu g/g)$ α-Bisabolol Camphene 522 δ-3-Carene

β-Caryophyllene

Caryophyllene

α-Humulene

Isopulegol

Linalool

β-Myrcene

cis-Nerolidol

α-Ocimene

β-Ocimene

α-Pinene

β-Pinene

α-Terpinene y-Terpinene

trans-Nerolidol

d-Limonene

oxide p-Cymene Eucalyptol Geraniol Guaiol

\_

1990

445

986

-

2130

2690

2260

644

145

\_

706

971

### **TERPENOID PROFILE**

Method: GC/MS **Deviations from SOP:** Instrument: Agilent 7890/5975 None Abbreviations: GC - Gas

Chromatography, MS - Mass Spectrometry, RL - Reporting Limit

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Terpinolene	505	0.0505	"-" Not detected above RL.
TOTAL	14000	1.40	<b>Reporting Limit (μg/g):</b> 42.0













## **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35037)**

Testing Location:	Customer ID: 2161	Order ID: OR10415	Sample Type: Primary
Arkansas	River Valley Relief Cultivation	Lot Number:	Matrix: Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13135737851	Mass: 8g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 04/24/2023
License: ADH 113	License: 00065C	2030H20230314RTZ-3	<b>Date Received:</b> 04/24/2023
Cultivar (Strain) or Sample	Date Completed: 04/27/2023		

## Analysis Date/Time: 04/26/2023 1632 Analyst: KF

## **PESTICIDES PROFILE (SOP: SOP-PEST-001)**

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

<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> <u>Level</u> (µg/g)	
Abamectin (71751-41-2)	-	0.0420	0.336	0.5	Kresoxim-methyl	_	0.0420	0.336	0.4	
Acephate (30560-19-1)	-	0.0420	0.336	0.4	(143390-89-0)					
Acequinocyl (57960-19-7)	-	0.0420	0.336	2	Malathion (121-75-5)	-	0.0420	0.336	0.2	
Acetamiprid	_	0.0420	0.336	0.2	Metalaxyl (57837-19-1)	-	0.0420	0.336	0.2	
(135410-20-7)					Methiocarb (2032-65-7)	-	0.0420	0.336	0.2	
Aldicarb (116-06-3)	-	0.0420	0.336	0.4	Methomyl (16752-77-5)	-	0.0420	0.336	0.4	
Azoxystrobin (131860-33-8)	-	0.0420	0.336	0.2	Methyl parathion (298-0-0)	-	0.0420	0.336	0.2	
Bifenazate (149877-41-8)	-	0.0420	0.336	0.2	MGK 264 (113-48-4)	-	0.0420	0.336	0.2	"DET
Bifenthrin (82657-04-3)	-	0.0420	0.336	0.2	Myclobutanil	_	0.0420	0.336	0.2	,
Boscalid (188425-85-6)	-	0.0420	0.336	0.4	(88671-89-0)					
Carbaryl (63-25-2)	-	0.0420	0.336	0.2	Naled (300-76-5)	-	0.0420	0.336	0.5	
Carbofuran (1563-66-2)	-	0.0420	0.336	0.2	Oxamyl (23135-22-0)	-	0.0420	0.336	1	Peri cumul
Chlorantraniliprole (800008-45-7)	-	0.0420	0.336	0.2	Paclobutrazol (76738-62-0)	-	0.0420	0.336	0.4	tra
Chlorfenapyr					Permethrins (52645-53-1)	-	0.0420	0.336	0.2	Py
(122453-73-0)	-	0.0420	0.336	1	Phosmet (732-11-6)	-	0.0420	0.336	0.2	cu pyreth
Chlorpyrifos (2921-88-2)	-	0.0420	0.336	0.2	Piperonyl butoxide	_	0.0420	0.336	2	pjiem
Clofentezine (74115-24-5)	-	0.0420	0.336	0.2	(51-03-6)					Actio
Cyfluthrin (68359-37-5)	-	0.0420	0.336	1	Prallethrins (2331-36-9)	-	0.0420	0.336	0.2	netio
Cypermethrin (52315-07-8)	-	0.0420	0.336	1	Propiconazole (60207-90-1))	-	0.0420	0.336	0.4	State
Daminozide (1596-84-5)	-	0.0420	0.336	1	Propoxur (114-26-1)	-	0.0420	0.336	0.2	Avalu
DDVP (62-73-7)	-	0.0420	0.336	0.1	Pyrethrins (8003-34-7)	-	0.0420	0.336	1	Avait
Diazinon (333-41-5)	-	0.0420	0.336	0.2	Pyridaben (96489-71-3)	-	0.0420	0.336	0.2	cu
Dimethoate (60-51-5)	-	0.0420	0.336	0.2	Spinosad (168316-95-8)	-	0.0420	0.336	0.2	regu
Ethoprophos (13194-48-4)	-	0.0420	0.336	0.2	Spiromesifen	<u>_</u>	0.0420	0.336	0.2	Discl
Etofenprox (80844-07-1)	-	0.0420	0.336	0.4	(283594-90-1)					provi no clai
Etoxazole (153233-91-1)	-	0.0420	0.336	0.2	Spirotetramat (203313-25-1)	-	0.0420	0.336	0.2	of
Fenoxycarb (72490-01-8)	-	0.0420	0.336	0.2	Spiroxamine		0.0420	0.336	0.4	applic
(E)-Fenpyroximate (134098-61-6)	-	0.0420	0.336	0.4	(118134-30-8) Tebuconazole	-	0.0420	0.336	0.4	anal analys
Fipronil (120068-37-3)	-	0.0420	0.336	0.4	(80443-41-0)	-	0.0420	0.336	0.4	for in: an
Flonicamid (158062-67-0)	-	0.0420	0.336	1	Thiacloprid		0.0420	0.336	0.7	diag
Fludioxinil (131341-86-1)		0.0420	0.336	0.4	(111988-49-9)		0.0420	0.530	0.2	medio statem
Hexythiazox (78587-05-0)		0.0420	0.336	1	Thiamethoxam	-	0.0420	0.336	0.2	no
Imazalil (35554-44-0)		0.0420	0.336	0.2	(153719-23-4)					6
Imidacloprid		0.0420	0.336	0.4	Trifloxystrobin (141517-21-7)	-	0.0420	0.336	0.2	

#### **Deviations from SOP:**

None



Color Key

ET" detected less than LOQ "-" not detected above LOD ermethrins measured as the ulative residue of the cis- and rans-permethrin isomers. yrethrins measured as the cumulative residue of the thrin I, cinerin I, and jasmolin I isomers. ion levels are referenced from the te of Arkansas MMJ testing guidelines. alue of "-" for the action level means that analyte is not currently regulated by the gulations referenced above.

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Synonym(s)

Tilt

Baygon

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** Myclobutanil Cyfluthrin Baythroid Systhane Propiconazole DDVP Dichlorvos Naled Dibrom Propoxur Prophos Phosmet Imidan Ethoprophos



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Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 04/24/2023
License: ADH 113	License: 00065C	2030H20230314RTZ-3	Date Received: 04/24/2023
Cultivar (Strain) or Sample D	Description: Runtz		<b>Date Completed:</b> 04/27/2023

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

Analysis Date/T Analysis Date/T Analyst: KF	<b>ime:</b> 04/25/2023 1 <b>ime:</b> - (DMA)	651 (ICP/OES)		t <b>hod:</b> ICP/OES rument: Agilent 720	-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)	-	59.1	93.7	200	AN KUL AR
Cadmium (Cd)	-	59.1	93.7	200	ALLES TOMAT
Lead (Pb)	-	59.1	93.7	500	Standard I Frankling
Mercury (Hg)	-	59.1	93.7	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

<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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License: ADA 05_H273	License: 00065C	2030H20230314RTZ-3	Date Received: 04/24/2023
Cultivar (Strain) or Sample Description: Runtz			Date Completed: 04/27/2023

### MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 20230420 Analyst: PW		Hardy Diagnostics CompactDry <b>nt:</b> Thermo Incubator	<b>Deviations from SOP:</b> None
Bacteria/Microbe	<u>Result</u> (CFU/g)	<u>Action Level</u> (CFU/g)	AL AL
Aerobic Plate Count	NT	-	28 K K
Coliforms, Total	Absent	1	ASSESS FRANK
Escherichia Coli (E. Coli)	Absent	100	ACCESSION IN MARKEN
Mold/Yeast	NT	-	A STREET STREET STREET
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





<u>eporting Limit (CFU/g</u> 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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