

**SUMMARY OF ANALYSIS (SAMPLE ID: SA37085)**

<b>Testing Location:</b> Arkansas 232 S. Broadview St. Greenbrier, AR 72058 License: ADH 113	<b>Customer ID:</b> 2168 River Valley Relief MIPS 5601 Old Greenwood Rd Suite C Fort Smith, AR 72903 License: 00065C	<b>Order ID:</b> OR10862 <b>Lot Number:</b> M00065C13243109293 <b>Production Run:</b> E20240212RTZLB01	<b>Sample Type:</b> Primary <b>Matrix:</b> Concentrate <b>Mass:</b> 4g <b>Date Collected:</b> 02/12/2024 <b>Date Received:</b> 02/12/2024 <b>Date Completed:</b> 02/14/2024
<b>Cultivar (Strain) or Sample Description:</b> Runtz Hybrid Live Badder			

\*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 (%)**

Not Tested

**Water Activity (aw)**

Not Tested

**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.

<b>Cannabinoids (Top 3)</b>	<b>(%)</b>	<b>mg/g</b>
THCA	90.7	907
CBGA	0.571	5.71
THCVA	0.332	3.32
TOTAL CBD	0.0600	0.600
TOTAL THC	79.5	795
TOTAL CANNABINOIDS	91.6	916

<b>Terpenes (Top 5)</b>	<b>(%)</b>	<b>µg/g</b>
β-Myrcene	3.71	37100
d-Limonene	2.98	29800
β-Caryophyllene	0.305	3050
Linalool	0.265	2650
β-Pinene	0.180	1800
TOTAL TERPENES	7.86	78600

<b>Contaminants</b>	<b>PASS/FAIL</b>
Heavy Metals:	PASS
Microbiology:	PASS
Pesticides:	PASS
Residual Solvents:	PASS

**Sample Picture Upon Receipt**



Scan the QR code to verify results.

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



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**Cultivar (Strain) or Sample Description:** Runtz Hybrid Live Badder **Date Completed:** 02/14/2024

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

**Analysis Date/Time:** 02/13/2024 1930 **Method:** HPLC/DAD **Moisture Content (%):** -  
**Analyst:** PW **Instrument:** Agilent 1100 **Water Activity (aw):** -

<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	0.106	0.246	-	-	-
CBCA	ND	ND	0.328	0.765	-	-	-
CBD	ND	ND	0.745	1.74	-	-	-
CBDA	0.0684	0.684	0.274	0.640	-	0.684	0.684
CBDV	ND	ND	0.119	0.279	-	-	-
CBDVA	ND	ND	0.319	0.744	-	-	-
CBG	ND	ND	0.483	1.13	-	-	-
CBGA	0.571	5.71	0.685	0.808	-	5.71	5.71
CBL	ND	ND	0.558	1.30	-	-	-
CBN	ND	ND	0.257	0.599	-	-	-
CBNA	ND	ND	0.277	0.645	-	-	-
Δ9-THC	ND	ND	0.307	0.717	-	-	-
Δ8-THC	ND	ND	0.480	1.12	-	-	-
THCA	90.7	907	0.167	0.390	-	907	907
THCV	ND	ND	0.400	0.933	-	-	-
THCVA	0.332	3.32	0.128	0.297	-	3.32	3.32
<b>TOTAL</b>	<b>91.6</b>	<b>916</b>				<b>916</b>	<b>916</b>
<b>TOTAL CBC</b>	-	-				-	-
<b>TOTAL CBD</b>	0.0600	0.600				0.600	0.600
<b>TOTAL CBDV</b>	-	-				-	-
<b>TOTAL CBG</b>	0.502	5.02				5.02	5.02
<b>TOTAL CBN</b>	-	-				-	-
<b>TOTAL THC</b>	79.5	795				795	795
<b>TOTAL THCV</b>	0.287	2.87				2.87	2.87



**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) + Δ9-THC  
 Total THCV = (THCVA x 0.867) + THCVA

Percentage results are reported by mass.

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

*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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**Cultivar (Strain) or Sample Description:** Runtz Hybrid Live Badder **Date Completed:** 02/14/2024

**TERPENOID PROFILE**

**Analysis Date/Time:** 02/13/2024 0505  
**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	50.4	0.00504	
Camphene	417	0.0417	
δ-3-Carene	ND	-	
β-Caryophyllene	3050	0.305	
Caryophyllene oxide	54.2	0.00542	
p-Cymene	158	0.0158	
Eucalyptol	ND	-	
Geraniol	ND	-	
Guaiol	45.8	0.00458	
α-Humulene	540	0.0540	
Isopulegol	ND	-	
d-Limonene	29800	2.98	
Linalool	2650	0.265	
β-Myrcene	37100	3.71	
cis-Nerolidol	ND	-	
trans-Nerolidol	200	0.0200	
α-Ocimene	ND	-	
β-Ocimene	803	0.0803	
α-Pinene	1790	0.179	
β-Pinene	1800	0.180	
α-Terpinene	ND	-	
γ-Terpinene	ND	-	
Terpinolene	157	0.0157	
<b>TOTAL</b>	<b>78600</b>	<b>7.86</b>	



*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): 1.91**

"-" Not detected above LOD.

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<b>Cultivar (Strain) or Sample Description:</b> Runtz Hybrid Live Badder			<b>Date Completed:</b> 02/14/2024

**RESIDUAL SOLVENT PROFILE (SOP: SOP-RS-001)**

<b>Analysis Date/Time:</b> 02/12/2024 2323	<b>Method:</b> HS/GC/MS	<b>Deviations from SOP:</b>
<b>Analyst:</b> KF	<b>Instrument:</b> Agilent 7890/5975	None

Solvent	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)	Solvent	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)
Acetone (67-64-1)	-	75.8	152	5000	n-Heptane (142-82-5)	-	75.8	152	5000
Acetonitrile (75-5-8)	-	75.8	152	410	n-Hexane (110-54-3)	-	26.5	53.1	290
Benzene (71-43-2)	-	0.758	1.52	2	Isobutane (75-28-5)	-	75.8	152	5000
n-Butane (106-97-2)	-	75.8	152	5000	Isopropanol (67-63-0)	-	75.8	152	5000
1-Butanol (71-36-3)	-	75.8	152	5000	Isopropyl acetate (108-21-4)	-	75.8	152	5000
2-Butanol (78-92-2)	-	75.8	152	5000	Isopropyl benzene (98-82-8)	-	7.58	15.2	70
2-Butanone (78-93-3)	-	75.8	152	5000	Methanol (67-56-1)	-	75.8	152	3000
Cyclohexane (110-82-7)	-	75.8	152	3880	2-Methylbutane (78-78-4)	-	75.8	152	5000
1,2-Dimethoxyethane (110-71-4)	-	7.58	15.2	100	Methylene chloride (75-9-2)	-	75.8	152	600
N,N-Dimethylacetamide (127-19-5)	-	75.8	152	1090	2-Methylpentane (107-83-5)	-	26.5	53.1	290
2,2-Dimethylbutane (75-83-2)	-	26.5	53.1	290	3-Methylpentane (96-10-0)	-	26.5	53.1	290
2,3-Dimethylbutane (79-29-8)	-	26.5	53.1	290	n-Pentane (109-66-0)	-	75.8	152	5000
N,N-Dimethylformamide (68-12-2)	-	75.8	152	880	1-Pentanol (71-41-0)	-	75.8	152	5000
Dimethylsulfoxide (67-68-5)	-	75.8	152	5000	n-Propane (74-98-6)	-	75.8	152	5000
1,4-Dioxane (123-91-1)	-	75.8	152	380	1-Propanol (71-23-8)	-	75.8	152	5000
Ethanol (64-17-5)	-	75.8	152	5000	Pyridine (110-86-1)	-	26.5	53.1	200
2-Ethoxyethanol (110-80-5)	-	26.5	53.1	160	Tetrahydrofuran (109-99-9)	-	75.8	152	720
Ethyl ether (60-29-7)	-	75.8	152	5000	Tetramethylene sulfone (126-33-0)	-	26.5	53.1	160
Ethyl acetate (141-78-6)	-	75.8	152	5000	Toluene (108-88-3)	-	75.8	152	890
Ethyl benzene (100-41-4)	-	75.8	152	2170	o-Xylene (95-47-6)	-	75.8	152	2170
Ethylene glycol (107-21-1)	-	75.8	152	620	m,p-Xylene (108-38-3 or 106-42-3)	-	75.8	152	2170
Ethylene oxide (75-21-8)	-	7.58	15.2	50	Xylenes* (1330-20-7)	-	43.3	86.7	2170



**Color Key**

RESULT < AL
RESULT > AL

"DET" detected less than LOQ

"-" not detected above LOD

"\*" - o,m,p-Xylene and Ethylbenzene

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.

Solvent	Synonym(s)	Solvent	Synonym(s)
Acetonitrile	Methyl Cyanide, ACN	Ethylene glycol	1,2-Ethanediol
1-Butanol	n-Butanol, Butyl Alcohol	Isobutane	2-Methylpropane
2-Butanol	sec-Butyl alcohol	Isopropanol	2-Propanol, IPA
2-Butanone	Methyl ethyl ketone, MEK	Isopropyl Acetate	Acetic acid isopropyl ester
1,2-Dimethoxyethane	Monoglyme	Methanol	Methyl alcohol
2,3-Dimethylbutane	Neohexane	2-Methylbutane	Isopentane
2,3-Dimethylbutane	Diisopropyl	Methylene chloride	Dichloromethane
N,N-Dimethylformamide	DMF	2-Methylpentane	Isohexane
Dimethylsulfoxide	DMSO	1-Pentanol	n-Amyl alcohol
2-Ethoxyethanol	Cellosolve, Ethyl glycol	1-Propanol	Propyl alcohol
Ethyl ether	Diethyl ether, Ether	Tetrahydrofuran	THF
Ethyl acetate	EtOAc	Tetramethylene sulfone	Sulfolane
Ethyl benzene	Phenylethane	Xylene	Dimethylbenzene

Abbreviations: HS-Headspace, GC-Gas Chromatography, MS-Mass Spectrometry, RL-Reporting Limit, AL-Action Level, CAS-Chemical Abstract Services, LOD - Limit of Detection, LOQ - Limit of Quantification

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<b>Cultivar (Strain) or Sample Description:</b> Runtz Hybrid Live Badder			<b>Date Completed:</b> 02/14/2024

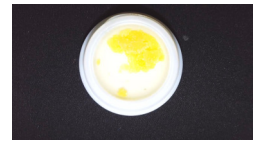
**PESTICIDES PROFILE (SOP: SOP-PEST-001)**

**Analysis Date/Time:** 02/13/2024 2023  
**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)	-	0.0460	0.368	0.5	Kresoxim-methyl (143390-89-0)	-	0.0460	0.368	0.4
Acephate (30560-19-1)	-	0.0460	0.368	0.4	Malathion (121-75-5)	-	0.0460	0.368	0.2
Acetaminocyl (57960-19-7)	-	0.0460	0.368	2	Metalaxyl (57837-19-1)	-	0.0460	0.368	0.2
Acetamiprid (135410-20-7)	-	0.0460	0.368	0.2	Methiocarb (2032-65-7)	-	0.0460	0.368	0.2
Aldicarb (116-06-3)	-	0.0460	0.368	0.4	Methomyl (16752-77-5)	-	0.0460	0.368	0.4
Azoxystrobin (131860-33-8)	-	0.0460	0.368	0.2	Methyl parathion (298-0-0)	-	0.0460	0.368	0.2
Bifenazate (149877-41-8)	-	0.0460	0.368	0.2	MGK 264 (113-48-4)	-	0.0460	0.368	0.2
Bifenthrin (82657-04-3)	-	0.0460	0.368	0.2	Myclobutanil (88671-89-0)	-	0.0460	0.368	0.2
Boscalid (188425-85-6)	-	0.0460	0.368	0.4	Naled (300-76-5)	-	0.0460	0.368	0.5
Carbaryl (63-25-2)	-	0.0460	0.368	0.2	Oxamyl (23135-22-0)	-	0.0460	0.368	1
Carbofuran (1563-66-2)	-	0.0460	0.368	0.2	Pacllobutrazol (76738-62-0)	-	0.0460	0.368	0.4
Chlorantraniliprole (800008-45-7)	-	0.0460	0.368	0.2	Permethrins (52645-53-1)	-	0.0460	0.368	0.2
Chlorfenapyr (122453-73-0)	-	0.0460	0.368	1	Phosmet (732-11-6)	-	0.0460	0.368	0.2
Chlorpyrifos (2921-88-2)	-	0.0460	0.368	0.2	Piperonyl butoxide (51-03-6)	-	0.0460	0.368	2
Clofentezine (74115-24-5)	-	0.0460	0.368	0.2	Prallethrins (2331-36-9)	-	0.0460	0.368	0.2
Cyfluthrin (68359-37-5)	-	0.0460	0.368	1	Propiconazole (60207-90-1))	-	0.0460	0.368	0.4
Cypermethrin (52315-07-8)	-	0.0460	0.368	1	Propoxur (114-26-1)	-	0.0460	0.368	0.2
Daminozide (1596-84-5)	-	0.0460	0.368	1	Pyrethrins (8003-34-7)	-	0.0460	0.368	1
DDVP (62-73-7)	-	0.0460	0.368	0.1	Pyridaben (96489-71-3)	-	0.0460	0.368	0.2
Diazinon (333-41-5)	-	0.0460	0.368	0.2	Spinosad (168316-95-8)	-	0.0460	0.368	0.2
Dimethoate (60-51-5)	-	0.0460	0.368	0.2	Spiromesifen (283594-90-1)	-	0.0460	0.368	0.2
Ethoprophos (13194-48-4)	-	0.0460	0.368	0.2	Spirotetramat (203313-25-1)	-	0.0460	0.368	0.2
Etofenprox (80844-07-1)	-	0.0460	0.368	0.4	Spiroxamine (118134-30-8)	-	0.0460	0.368	0.4
Etoxazole (153233-91-1)	-	0.0460	0.368	0.2	Tebuconazole (80443-41-0)	-	0.0460	0.368	0.4
Fenoxycarb (72490-01-8)	-	0.0460	0.368	0.2	Thiacloprid (111988-49-9)	-	0.0460	0.368	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0460	0.368	0.4	Thiamethoxam (153719-23-4)	-	0.0460	0.368	0.2
Fipronil (120068-37-3)	-	0.0460	0.368	0.4	Trifloxystrobin (141517-21-7)	-	0.0460	0.368	0.2
Fonicamid (158062-67-0)	-	0.0460	0.368	1					
Fludioxinil (131341-86-1)	-	0.0460	0.368	0.4					
Hexythiazox (78587-05-0)	-	0.0460	0.368	1					
Imazalil (35554-44-0)	-	0.0460	0.368	0.2					
Imidacloprid (138261-41-3)	-	0.0460	0.368	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.  
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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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**CERTIFICATE OF ANALYSIS (SAMPLE ID: SA37085)**

<b>Testing Location:</b> Arkansas 232 S. Broadview St. Greenbrier, AR 72058 License: ADH 113	<b>Customer ID:</b> 2168 River Valley Relief MIPS 5601 Old Greenwood Rd Suite C Fort Smith, AR 72903 License: 00065C	<b>Order ID:</b> OR10862 <b>Lot Number:</b> M00065C13243109293 <b>Production Run:</b> E20240212RTZLB01	<b>Sample Type:</b> Primary <b>Matrix:</b> Concentrate <b>Mass:</b> 4g <b>Date Collected:</b> 02/12/2024 <b>Date Received:</b> 02/12/2024
<b>Cultivar (Strain) or Sample Description:</b> Runtz Hybrid Live Badder			<b>Date Completed:</b> 02/14/2024

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

**Analysis Date/Time:** 02/13/2024 2025 (ICP/OES)      **Method:** ICP/MS      **Deviations from SOP:**  
**Analysis Date/Time:** - (DMA)      **Instrument:** Agilent 7500ce      None  
**Analyst:** KF

<u>Heavy Metal</u>	<u>Result (µg/kg)</u>	<u>LOD (µg/kg)</u>	<u>LOQ (µg/kg)</u>	<u>Action Level (µg/kg)</u>
Arsenic (As)	-	58.3	92.3	200
Cadmium (Cd)	-	58.3	92.3	200
Lead (Pb)	-	58.3	92.3	500
Mercury (Hg)	-	58.3	92.3	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**



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

Action levels for heavy metals are referenced from the State of Arkansas MMJ testing guidelines.

*Disclaimer:* This information is provided as a service and makes no claims of efficacy and/or safety of this product. Results are applicable only for the sample(s) analyzed and for the specific analysis conducted. This report is for informational purposes only and should not be used to diagnose, treat, or prevent any medical-related symptoms. The statements and results herein have not been approved and/or endorsed by the FDA.

**REPORT OF LABORATORY ANALYSIS**

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 Felling Analytical Services and Technology (F.A.S.T.), LLC

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



**CERTIFICATE OF ANALYSIS (SAMPLE ID: SA37085)**

<b>Testing Location:</b> Arkansas 232 S. Broadview St. Greenbrier, AR 72058 License: ADA 05_H273	<b>Customer ID:</b> 2168 River Valley Relief MIPS 5601 Old Greenwood Rd Suite C Fort Smith, AR 72903 License: 00065C	<b>Sample ID:</b> SA37085 <b>Lot Number:</b> M00065C13243109293 <b>Production Run:</b> E20240212RTZLB01	<b>Sample Type:</b> Primary <b>Matrix:</b> Concentrate <b>Mass:</b> 4g <b>Date Collected:</b> 02/12/2024 <b>Date Received:</b> 02/12/2024
<b>Cultivar (Strain) or Sample Description:</b> Runtz Hybrid Live Badder			<b>Date Completed:</b> 02/14/2024

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

**Analysis Date/Time:** 02/13/2024 1649      **Method:** Hardy Diagnostics CompactDry      **Deviations from SOP:**  
**Analyst:** PW      **Instrument:** Thermo Incubator      None

<u>Bacteria/Microbe</u>	<u>Result (CFU/g)</u>	<u>Action Level (CFU/g)</u>
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)**  
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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*Kyle W. Felling*  
Kyle W. Felling, Ph.D.  
Laboratory Director

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