

SUMMARY OF ANALYSIS (SAMPLE ID: SA37578)

Testing Location: Arkansas 232 S. Broadview St. Greenbrier, AR 72058 License: ADH 113	Customer ID: 2168 River Valley Relief MIPS 5601 Old Greenwood Rd Suite C Fort Smith, AR 72903 License: 00065C	Order ID: OR10943 Lot Number: M00065C13246165074 Production Run: E20240404RTZLB02	Sample Type: Primary Matrix: Concentrate Mass: 4units Date Collected: 04/05/2024 Date Received: 04/07/2024 Date Completed: 04/09/2024
Cultivar (Strain) or Sample Description: 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.

Cannabinoids (Top 3)	(%)	mg/g
THCA	78.7	787
Δ9-THC	1.33	13.3
CBGA	1.24	12.4
TOTAL CBD	0.121	1.21
TOTAL THC	70.4	704
TOTAL CANNABINOIDS	82.0	820

Terpenes (Top 5)	(%)	µg/g
β-Myrcene	4.27	42700
d-Limonene	2.74	27400
β-Caryophyllene	2.46	24600
Linalool	1.22	12200
α-Humulene	0.691	6910
TOTAL TERPENES	12.9	129000

Contaminants	PASS/FAIL
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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REPORT OF LABORATORY ANALYSIS

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

www.FASTLaboratories.com



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Cultivar (Strain) or Sample Description: Runtz Hybrid Live Badder **Date Completed:** 04/09/2024

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

Analysis Date/Time: 04/08/2024 1456 **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	0.105	0.244	-	-	-
CBCA	ND	ND	0.325	0.759	-	-	-
CBD	ND	ND	0.739	1.72	-	-	-
CBDa	0.137	1.37	0.272	0.635	-	1.37	1.37
CBDV	ND	ND	0.119	0.277	-	-	-
CBDVA	ND	ND	0.316	0.738	-	-	-
CBG	0.293	2.93	0.480	1.12	-	2.93	2.93
CBGA	1.24	12.4	0.680	0.802	-	12.4	12.4
CBL	ND	ND	0.554	1.29	-	-	-
CBN	ND	ND	0.254	0.594	-	-	-
CBNA	ND	ND	0.275	0.640	-	-	-
Δ9-THC	1.33	13.3	0.305	0.711	-	13.3	13.3
Δ8-THC	ND	ND	0.476	1.11	-	-	-
THCA	78.7	787	0.165	0.387	-	787	787
THCV	ND	ND	0.397	0.925	-	-	-
THCVA	0.329	3.29	0.127	0.295	-	3.29	3.29
TOTAL	82.0	820				820	820
TOTAL CBC	-	-				-	-
TOTAL CBD	0.121	1.21				1.21	1.21
TOTAL CBDV	-	-				-	-
TOTAL CBG	1.39	13.9				13.9	13.9
TOTAL CBN	-	-				-	-
TOTAL THC	70.4	704				704	704
TOTAL THCv	0.285	2.85				2.85	2.85



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) + THCv

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: 04/09/2024

TERPENOID PROFILE

Analysis Date/Time: 04/08/2024 1809
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	ND	-	
Camphene	ND	-	
δ-3-Carene	ND	-	
β-Caryophyllene	24600	2.46	■
Caryophyllene oxide	ND	-	
p-Cymene	ND	-	
Eucalyptol	ND	-	
Geraniol	ND	-	
Guaiol	66.6	0.00666	
α-Humulene	6910	0.691	■
Isopulegol	ND	-	
d-Limonene	27400	2.74	■
Linalool	12200	1.22	■
β-Myrcene	42700	4.27	■
cis-Nerolidol	ND	-	
trans-Nerolidol	3890	0.389	
α-Ocimene	ND	-	
β-Ocimene	3690	0.369	
α-Pinene	1710	0.171	
β-Pinene	5290	0.529	■
α-Terpinene	ND	-	
γ-Terpinene	ND	-	
Terpinolene	ND	-	
TOTAL	129000	12.9	



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): 45.9

"-" Not detected above LOD.

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Cultivar (Strain) or Sample Description: Runtz Hybrid Live Badder **Date Completed:** 04/09/2024

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

Analysis Date/Time: 04/07/2024 2059 **Method:** HS/GC/MS **Deviations from SOP:** None
Analyst: KF **Instrument:** Agilent 7890/5975

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)	-	97.2	194	5000	n-Heptane (142-82-5)	-	97.2	194	5000
Acetonitrile (75-5-8)	-	97.2	194	410	n-Hexane (110-54-3)	-	34.0	68.0	290
Benzene (71-43-2)	-	0.972	1.94	2	Isobutane (75-28-5)	-	97.2	194	5000
n-Butane (106-97-2)	-	97.2	194	5000	Isopropanol (67-63-0)	-	97.2	194	5000
1-Butanol (71-36-3)	-	97.2	194	5000	Isopropyl acetate (108-21-4)	-	97.2	194	5000
2-Butanol (78-92-2)	-	97.2	194	5000	Isopropyl benzene (98-82-8)	-	97.2	19.4	70
2-Butanone (78-93-3)	-	97.2	194	5000	Methanol (67-56-1)	-	97.2	194	3000
Cyclohexane (110-82-7)	-	97.2	194	3880	2-Methylbutane (78-78-4)	-	97.2	194	5000
1,2-Dimethoxyethane (110-71-4)	-	97.2	19.4	100	Methylene chloride (75-9-2)	-	97.2	194	600
N,N-Dimethylacetamide (127-19-5)	-	97.2	194	1090	2-Methylpentane (107-83-5)	-	34.0	68.0	290
2,2-Dimethylbutane (75-83-2)	-	34.0	68.0	290	3-Methylpentane (96-10-0)	-	34.0	68.0	290
2,3-Dimethylbutane (79-29-8)	-	34.0	68.0	290	n-Pentane (109-66-0)	-	97.2	194	5000
N,N-Dimethylformamide (68-12-2)	-	97.2	194	880	1-Pentanol (71-41-0)	-	97.2	194	5000
Dimethylsulfoxide (67-68-5)	-	97.2	194	5000	n-Propane (74-98-6)	-	97.2	194	5000
1,4-Dioxane (123-91-1)	-	97.2	194	380	1-Propanol (71-23-8)	-	97.2	194	5000
Ethanol (64-17-5)	-	97.2	194	5000	Pyridine (110-86-1)	-	34.0	68.0	200
2-Ethoxyethanol (110-80-5)	-	34.0	68.0	160	Tetrahydrofuran (109-99-9)	-	97.2	194	720
Ethyl ether (60-29-7)	-	97.2	194	5000	Tetramethylene sulfone (126-33-0)	-	34.0	68.0	160
Ethyl acetate (141-78-6)	-	97.2	194	5000	Toluene (108-88-3)	-	97.2	194	890
Ethyl benzene (100-41-4)	-	97.2	194	2170	o-Xylene (95-47-6)	-	97.2	194	2170
Ethylene glycol (107-21-1)	-	97.2	194	620	m,p-Xylene (108-38-3 or 106-42-3)	-	97.2	194	2170
Ethylene oxide (75-21-8)	-	97.2	19.4	50	Xylenes* (1330-20-7)	-	43.3	86.7	2170



Color Key

RESULT < AL (Green bar)
RESULT > AL (Red bar)

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

Analysis Date/Time: 04/08/2024 1552
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)	-	0.0456	0.365	0.5	Kresoxim-methyl (143390-89-0)	-	0.0456	0.365	0.4
Acephate (30560-19-1)	-	0.0456	0.365	0.4	Malathion (121-75-5)	-	0.0456	0.365	0.2
Acetamiprid (57960-19-7)	-	0.0456	0.365	2	Metalaxyl (57837-19-1)	-	0.0456	0.365	0.2
Acetamiprid (135410-20-7)	-	0.0456	0.365	0.2	Methiocarb (2032-65-7)	-	0.0456	0.365	0.2
Aldicarb (116-06-3)	-	0.0456	0.365	0.4	Methomyl (16752-77-5)	-	0.0456	0.365	0.4
Azoxystrobin (131860-33-8)	-	0.0456	0.365	0.2	Methyl parathion (298-0-0)	-	0.0456	0.365	0.2
Bifenazate (149877-41-8)	-	0.0456	0.365	0.2	MGK 264 (113-48-4)	-	0.0456	0.365	0.2
Bifenthrin (82657-04-3)	-	0.0456	0.365	0.2	Myclobutanil (88671-89-0)	-	0.0456	0.365	0.2
Boscalid (188425-85-6)	-	0.0456	0.365	0.4	Naled (300-76-5)	-	0.0456	0.365	0.5
Carbaryl (63-25-2)	-	0.0456	0.365	0.2	Oxamyl (23135-22-0)	-	0.0456	0.365	1
Carbofuran (1563-66-2)	-	0.0456	0.365	0.2	Pacllobutrazol (76738-62-0)	-	0.0456	0.365	0.4
Chlorantraniliprole (800008-45-7)	-	0.0456	0.365	0.2	Permethrins (52645-53-1)	-	0.0456	0.365	0.2
Chlorfenapyr (122453-73-0)	-	0.0456	0.365	1	Phosmet (732-11-6)	-	0.0456	0.365	0.2
Chlorpyrifos (2921-88-2)	-	0.0456	0.365	0.2	Piperonyl butoxide (51-03-6)	-	0.0456	0.365	2
Clofentezine (74115-24-5)	-	0.0456	0.365	0.2	Prallethrins (2331-36-9)	-	0.0456	0.365	0.2
Cyfluthrin (68359-37-5)	-	0.0456	0.365	1	Propiconazole (60207-90-1))	-	0.0456	0.365	0.4
Cypermethrin (52315-07-8)	-	0.0456	0.365	1	Propoxur (114-26-1)	-	0.0456	0.365	0.2
Daminozide (1596-84-5)	-	0.0456	0.365	1	Pyrethrins (8003-34-7)	-	0.0456	0.365	1
DDVP (62-73-7)	-	0.0456	0.365	0.1	Pyridaben (96489-71-3)	-	0.0456	0.365	0.2
Diazinon (333-41-5)	-	0.0456	0.365	0.2	Spinosad (168316-95-8)	-	0.0456	0.365	0.2
Dimethoate (60-51-5)	-	0.0456	0.365	0.2	Spiromesifen (283594-90-1)	-	0.0456	0.365	0.2
Ethoprophos (13194-48-4)	-	0.0456	0.365	0.2	Spirotetramat (203313-25-1)	-	0.0456	0.365	0.2
Etofenprox (80844-07-1)	-	0.0456	0.365	0.4	Spiroxamine (118134-30-8)	-	0.0456	0.365	0.4
Etoxazole (153233-91-1)	-	0.0456	0.365	0.2	Tebuconazole (80443-41-0)	-	0.0456	0.365	0.4
Fenoxycarb (72490-01-8)	-	0.0456	0.365	0.2	Thiacloprid (111988-49-9)	-	0.0456	0.365	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0456	0.365	0.4	Thiamethoxam (153719-23-4)	-	0.0456	0.365	0.2
Fipronil (120068-37-3)	-	0.0456	0.365	0.4	Trifloxystrobin (141517-21-7)	-	0.0456	0.365	0.2
Fonicamid (158062-67-0)	-	0.0456	0.365	1					
Fludioxinil (131341-86-1)	-	0.0456	0.365	0.4					
Hexythiazox (78587-05-0)	-	0.0456	0.365	1					
Imazalil (35554-44-0)	-	0.0456	0.365	0.2					
Imidacloprid (138261-41-3)	-	0.0456	0.365	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.
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	Sythane	Propiconazole	Tilt
DDVP	Dichlorvos	Naled	Dibrom	Propoxur	Baygon
Ethoprophos	Prophos	Phosmet	Imidan		

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

Analysis Date/Time: 04/08/2024 1534 (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)	-	58.1	91.9	200
Cadmium (Cd)	-	58.1	91.9	200
Lead (Pb)	-	58.1	91.9	500
Mercury (Hg)	-	58.1	91.9	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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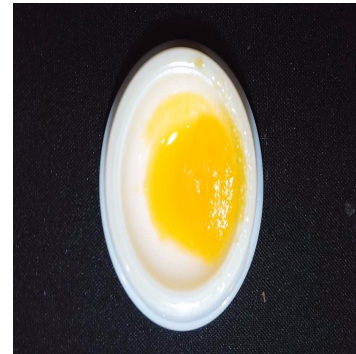
CERTIFICATE OF ANALYSIS (SAMPLE ID: SA37578)

Testing Location: Arkansas 232 S. Broadview St. Greenbrier, AR 72058 License: ADA 05_H273	Customer ID: 2168 River Valley Relief MIPS 5601 Old Greenwood Rd Suite C Fort Smith, AR 72903 License: 00065C	Sample ID: SA37578 Lot Number: M00065C13246165074 Production Run: E20240404RTZLB02	Sample Type: Primary Matrix: Concentrate Mass: 4units Date Collected: 04/05/2024 Date Received: 04/07/2024 Date Completed: 04/09/2024
Cultivar (Strain) or Sample Description: Runtz Hybrid Live Badder			

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 04/08/2024 1600 **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.

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

