

**SUMMARY OF ANALYSIS (SAMPLE ID: SA34087)**

<b>Testing Location:</b>	<b>Customer ID:</b> 2168	<b>Order ID:</b> OR10256	<b>Sample Type:</b> Primary
Arkansas	River Valley Relief MIPS	<b>Lot Number:</b>	<b>Matrix:</b> Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13244521463	<b>Mass:</b> 4g
Greenbrier, AR 72058	Fort Smith, AR 72903	<b>Production Run:</b>	<b>Date Collected:</b> 01/11/2023
License: ADH 113	License: 00065C	E20230109RTZLC01	<b>Date Received:</b> 01/11/2023
<b>Cultivar (Strain) or Sample Description:</b> Runtz Hybrid Live Resin .5g Cart			<b>Date Completed:</b> 01/18/2023

\*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 (%)**

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	39.9	399
Δ9-THC	24.2	242
CBCA	1.34	13.4
TOTAL CBD	-	-
TOTAL THC	59.1	591
TOTAL CANNABINOIDS	65.4	654

<b>Terpenes (Top 5)</b>	<b>(%)</b>	<b>µg/g</b>
β-Myrcene	2.93	29300
d-Limonene	2.41	24100
β-Caryophyllene	1.57	15700
α-Humulene	0.532	5320
β-Pinene	0.396	3960
TOTAL TERPENES	8.82	88200

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

**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



**CERTIFICATE OF ANALYSIS (SAMPLE ID: SA34087)**

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

**Analysis Date/Time:** 1/13/2023 1456

**Method:** HPLC/DAD

**Moisture Content (%):** -

**Analyst:** PW

**Instrument:** Agilent 1100

**Water Activity (aw):** -

<u>Cannabinoid</u>	<u>Result</u> (%)	<u>UM</u> (+/-%)	<u>Result</u> (mg/g)	<u>LOQ</u> (mg/g)	<u>Result</u> (mg/mL)	<u>Per</u> <u>Serving</u> (mg)	<u>Per</u> <u>Unit</u> (mg)
CBC	-	-	-	2.49	-	-	-
CBCA	1.34	0.107	13.4	7.75	-	13.4	13.4
CBD	-	-	-	17.6	-	-	-
CBDA	DET	-	DET	6.48	-	-	-
CBDV	-	-	-	2.82	-	-	-
CBDVA	-	-	-	7.53	-	-	-
CBG	DET	-	DET	11.4	-	-	-
CBGA	DET	-	DET	8.19	-	-	-
CBL	-	-	-	13.2	-	-	-
CBN	-	-	-	6.07	-	-	-
CBNA	-	-	-	6.54	-	-	-
Δ9-THC	24.2	2.17	242	7.26	-	242	242
Δ8-THC	-	-	-	11.3	-	-	-
THCA	39.9	3.59	399	3.95	-	399	399
THCV	-	-	-	9.44	-	-	-
THCVA	DET	-	DET	3.01	-	-	-
<b>TOTAL</b>	65.4	5.87	654	-	-	654	654
<b>TOTAL CBC</b>	1.17	0.0938	11.7	-	-	11.7	11.7
<b>TOTAL CBD</b>	-	-	-	-	-	-	-
<b>TOTAL CBDV</b>	-	-	-	-	-	-	-
<b>TOTAL CBG</b>	-	-	-	-	-	-	-
<b>TOTAL CBN</b>	-	-	-	-	-	-	-
<b>TOTAL THC</b>	59.1	5.32	591	-	-	591	591
<b>TOTAL THCV</b>	-	-	-	-	-	-	-



**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.

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



**CERTIFICATE OF ANALYSIS (SAMPLE ID: SA34087)**

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<b>Cultivar (Strain) or Sample Description:</b> Runtz Hybrid Live Resin .5g Cart			<b>Date Completed:</b> 01/18/2023

**TERPENOID PROFILE**

**Analysis Date/Time:** 01/17/2023 0852

**Analyst:** KF

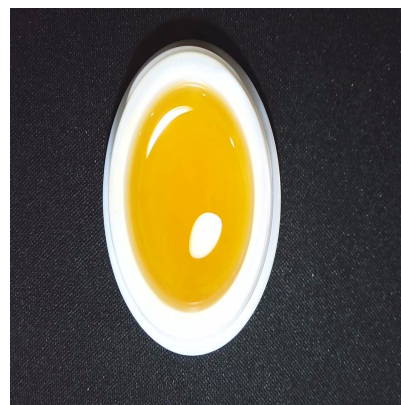
**Method:** GC/MS

**Instrument:** Agilent 7890/5975

**Deviations from SOP:**

None

<b>Terpene</b>	<b>Result (µg/g)</b>	<b>Result (%)</b>	
α-Bisabolol	-	-	
Camphene	778	0.0778	
δ-3-Carene	-	-	
β-Caryophyllene	15700	1.57	
Caryophyllene oxide	-	-	
p-Cymene	-	-	
Eucalyptol	-	-	
Geraniol	-	-	
Guaiol	-	-	
α-Humulene	5320	0.532	
Isopulegol	-	-	
d-Limonene	24100	2.41	
Linalool	3480	0.348	
β-Myrcene	29300	2.93	
cis-Nerolidol	-	-	
trans-Nerolidol	2510	0.251	
α-Ocimene	-	-	
β-Ocimene	398	0.0398	
α-Pinene	1930	0.193	
β-Pinene	3960	0.396	
α-Terpinene	-	-	
γ-Terpinene	-	-	
Terpinolene	778	0.0778	
<b>TOTAL</b>	<b>88200</b>	<b>8.82</b>	



**Abbreviations:** GC - Gas Chromatography, MS - Mass Spectrometry, RL - Reporting Limit

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"-" Not detected above RL.

**Reporting Limit (µg/g): 40.3**

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<b>Cultivar (Strain) or Sample Description:</b> Runtz Hybrid Live Resin .5g Cart			<b>Date Completed:</b> 01/18/2023

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

<b>Analysis Date/Time:</b> 1/16/2023 1749	<b>Method:</b> HS/GC/MS	<b>Deviations from SOP:</b>
<b>Analyst:</b> KF	<b>Instrument:</b> Agilent 7890/5975	None

<u>Solvent</u>	<u>Result</u> (µg/g)	<u>LOD</u> (µg/g)	<u>LOQ</u> (µg/g)	<u>Action Level</u> (µg/g)	<u>Solvent</u>	<u>Result</u> (µg/g)	<u>LOD</u> (µg/g)	<u>LOQ</u> (µg/g)	<u>Action Level</u> (µg/g)
Acetone (67-64-1)	-	40.0	80.0	5000	n-Heptane (142-82-5)	-	40.0	80.0	5000
Acetonitrile (75-5-8)	-	40.0	80.0	410	n-Hexane (110-54-3)	-	14.0	28.0	290
Benzene (71-43-2)	-	0.400	0.800	2	Isobutane (75-28-5)	-	40.0	80.0	5000
n-Butane (106-97-2)	2840	40.0	80.0	5000	Isopropanol (67-63-0)	-	40.0	80.0	5000
1-Butanol (71-36-3)	-	40.0	80.0	5000	Isopropyl acetate (108-21-4)	-	40.0	80.0	5000
2-Butanol (78-92-2)	-	40.0	80.0	5000	Isopropyl benzene (98-82-8)	-	4.00	8.00	70
2-Butanone (78-93-3)	-	40.0	80.0	5000	Methanol (67-56-1)	-	40.0	80.0	3000
Cyclohexane (110-82-7)	-	40.0	80.0	3880	2-Methylbutane (78-78-4)	-	40.0	80.0	5000
1,2-Dimethoxyethane (110-71-4)	-	4.00	8.00	100	Methylene chloride (75-9-2)	-	40.0	80.0	600
N,N-Dimethylacetamide (127-19-5)	-	40.0	80.0	1090	2-Methylpentane (107-83-5)	-	14.0	28.0	290
2,2-Dimethylbutane (75-83-2)	-	14.0	28.0	290	3-Methylpentane (96-10-0)	-	14.0	28.0	290
2,3-Dimethylbutane (79-29-8)	-	14.0	28.0	290	n-Pentane (109-66-0)	-	40.0	80.0	5000
N,N-Dimethylformamide (68-12-2)	-	40.0	80.0	880	1-Pentanol (71-41-0)	-	40.0	80.0	5000
Dimethylsulfoxide (67-68-5)	-	40.0	80.0	5000	n-Propane (74-98-6)	-	40.0	80.0	5000
1,4-Dioxane (123-91-1)	-	40.0	80.0	380	1-Propanol (71-23-8)	-	40.0	80.0	5000
Ethanol (64-17-5)	-	40.0	80.0	5000	Pyridine (110-86-1)	-	14.0	28.0	200
2-Ethoxyethanol (110-80-5)	-	14.0	28.0	160	Tetrahydrofuran (109-99-9)	-	40.0	80.0	720
Ethyl ether (60-29-7)	-	40.0	80.0	5000	Tetramethylene sulfone (126-33-0)	-	14.0	28.0	160
Ethyl acetate (141-78-6)	-	40.0	80.0	5000	Toluene (108-88-3)	-	40.0	80.0	890
Ethyl benzene (100-41-4)	-	40.0	80.0	2170	o-Xylene (95-47-6)	-	40.0	80.0	2170
Ethylene glycol (107-21-1)	-	40.0	80.0	620	m,p-Xylene (108-38-3 or 106-42-3)	-	40.0	80.0	2170
Ethylene oxide (75-21-8)	-	4.00	8.00	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.

<u>Solvent</u>	<u>Synonym(s)</u>	<u>Solvent</u>	<u>Synonym(s)</u>
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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Laboratory Director





**CERTIFICATE OF ANALYSIS (SAMPLE ID: SA34087)**

<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> OR10256 <b>Lot Number:</b> M00065C13244521463 <b>Production Run:</b> E20230109RTZLC01	<b>Sample Type:</b> Primary <b>Matrix:</b> Concentrate <b>Mass:</b> 4g <b>Date Collected:</b> 01/11/2023 <b>Date Received:</b> 01/11/2023
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**Cultivar (Strain) or Sample Description:** Runtz Hybrid Live Resin .5g Cart **Date Completed:** 01/18/2023

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

**Analysis Date/Time:** 01/16/2023 1551  
**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)	-	0.0403	0.322	0.5	Kresoxim-methyl (143390-89-0)	-	0.0403	0.322	0.4
Acephate (30560-19-1)	-	0.0403	0.322	0.4	Malathion (121-75-5)	-	0.0403	0.322	0.2
Acetaminophen (57960-19-7)	-	0.0403	0.322	2	Metalaxyl (57837-19-1)	-	0.0403	0.322	0.2
Acetamiprid (135410-20-7)	-	0.0403	0.322	0.2	Methiocarb (2032-65-7)	-	0.0403	0.322	0.2
Aldicarb (116-06-3)	-	0.0403	0.322	0.4	Methomyl (16752-77-5)	-	0.0403	0.322	0.4
Azoxystrobin (131860-33-8)	-	0.0403	0.322	0.2	Methyl parathion (298-0-0)	-	0.0403	0.322	0.2
Bifenazate (149877-41-8)	-	0.0403	0.322	0.2	MGK 264 (113-48-4)	-	0.0403	0.322	0.2
Bifenthrin (82657-04-3)	-	0.0403	0.322	0.2	Myclobutanil (88671-89-0)	-	0.0403	0.322	0.2
Boscalid (188425-85-6)	-	0.0403	0.322	0.4	Naled (300-76-5)	-	0.0403	0.322	0.5
Carbaryl (63-25-2)	-	0.0403	0.322	0.2	Oxamyl (23135-22-0)	-	0.0403	0.322	1
Carbofuran (1563-66-2)	-	0.0403	0.322	0.2	Paclobutrazol (76738-62-0)	-	0.0403	0.322	0.4
Chlorantraniliprole (800008-45-7)	-	0.0403	0.322	0.2	Permethrins (52645-53-1)	-	0.0403	0.322	0.2
Chlorfenapyr (122453-73-0)	-	0.0403	0.322	1	Phosmet (732-11-6)	-	0.0403	0.322	0.2
Chlorpyrifos (2921-88-2)	-	0.0403	0.322	0.2	Piperonyl butoxide (51-03-6)	-	0.0403	0.322	2
Clofentezine (74115-24-5)	-	0.0403	0.322	0.2	Prallethrin (2331-36-9)	-	0.0403	0.322	0.2
Cyfluthrin (68359-37-5)	-	0.0403	0.322	1	Propiconazole (60207-90-1)	-	0.0403	0.322	0.4
Cypermethrin (52315-07-8)	-	0.0403	0.322	1	Propoxur (114-26-1)	-	0.0403	0.322	0.2
Daminozide (1596-84-5)	-	0.0403	0.322	1	Pyrethrins (8003-34-7)	-	0.0403	0.322	1
DDVP (62-73-7)	-	0.0403	0.322	0.1	Pyridaben (96489-71-3)	-	0.0403	0.322	0.2
Diazinon (333-41-5)	-	0.0403	0.322	0.2	Spinosad (168316-95-8)	-	0.0403	0.322	0.2
Dimethoate (60-51-5)	-	0.0403	0.322	0.2	Spiromesifen (283594-90-1)	-	0.0403	0.322	0.2
Ethoprophos (13194-48-4)	-	0.0403	0.322	0.2	Spirotetramat (203313-25-1)	-	0.0403	0.322	0.2
Etofenprox (80844-07-1)	-	0.0403	0.322	0.4	Spiroxamine (118134-30-8)	-	0.0403	0.322	0.4
Etazoxole (153233-91-1)	-	0.0403	0.322	0.2	Tebuconazole (80443-41-0)	-	0.0403	0.322	0.4
Fenoxycarb (72490-01-8)	-	0.0403	0.322	0.2	Thiacloprid (111988-49-9)	-	0.0403	0.322	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0403	0.322	0.4	Thiamethoxam (153719-23-4)	-	0.0403	0.322	0.2
Fipronil (120068-37-3)	-	0.0403	0.322	0.4	Trifloxystrobin (141517-21-7)	-	0.0403	0.322	0.2
Flonicamid (158062-67-0)	-	0.0403	0.322	1					
Fludioxinil (131341-86-1)	-	0.0403	0.322	0.4					
Hexythiazox (78587-05-0)	-	0.0403	0.322	1					
Imazalil (35554-44-0)	-	0.0403	0.322	0.2					
Imidacloprid (138261-41-3)	-	0.0403	0.322	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.

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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		

**REPORT OF LABORATORY ANALYSIS**

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



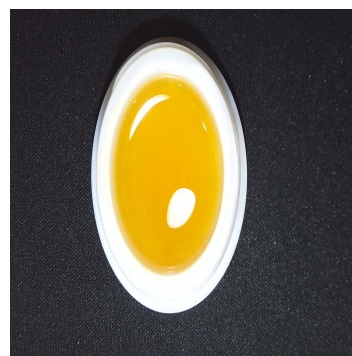
**CERTIFICATE OF ANALYSIS (SAMPLE ID: SA34087)**

<b>Testing Location:</b>	<b>Customer ID:</b> 2168	<b>Order ID:</b> OR10256	<b>Sample Type:</b> Primary
Arkansas	River Valley Relief MIPS	<b>Lot Number:</b>	<b>Matrix:</b> Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13244521463	<b>Mass:</b> 4g
Greenbrier, AR 72058	Fort Smith, AR 72903	<b>Production Run:</b>	<b>Date Collected:</b> 01/11/2023
License: ADH 113	License: 00065C	E20230109RTZLC01	<b>Date Received:</b> 01/11/2023
<b>Cultivar (Strain) or Sample Description:</b> Runtz Hybrid Live Resin .5g Cart			<b>Date Completed:</b> 01/18/2023

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

<b>Analysis Date/Time:</b> 01/17/2023 1431 (ICP/OES)	<b>Method:</b> ICP/OES	<b>Deviations from SOP:</b>
<b>Analysis Date/Time:</b> - (DMA)	<b>Instrument:</b> Agilent 720-ES	None
<b>Analyst:</b> KF		

<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)	-	54.6	86.5	200
Cadmium (Cd)	-	54.6	86.5	200
Lead (Pb)	-	54.6	86.5	500
Mercury (Hg)	-	54.6	86.5	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**

<b>RESULT &lt; AL</b>
<b>RESULT &gt; AL</b>

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



**CERTIFICATE OF ANALYSIS (SAMPLE ID: SA34087)**

<b>Testing Location:</b>	<b>Customer ID:</b> 2168	<b>Sample ID:</b> SA34087	<b>Sample Type:</b> Primary
Arkansas	River Valley Relief MIPS	<b>Lot Number:</b>	<b>Matrix:</b> Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13244521463	<b>Mass:</b> 4g
Greenbrier, AR 72058	Fort Smith, AR 72903	<b>Production Run:</b>	<b>Date Collected:</b> 01/11/2023
License: ADA 05_H273	License: 00065C	E20230109RTZLC01	<b>Date Received:</b> 01/11/2023
<b>Cultivar (Strain) or Sample Description:</b> Runtz Hybrid Live Resin .5g Cart			<b>Date Completed:</b> 01/18/2023

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

<b>Analysis Date/Time:</b> 20230117 0945	<b>Method:</b> Hardy Diagnostics CompactDry	<b>Deviations from SOP:</b>
<b>Analyst:</b> PW	<b>Instrument:</b> Thermo Incubator	None

<b>Bacteria/Microbe</b>	<b>Result (CFU/g)</b>	<b>Action Level (CFU/g)</b>
Aerobic Plate Count	NT	-
Coliforms, Total	Absent	1
Escherichia Coli (E. Coli)	Absent	100
Mold/Yeast	NT	-
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

**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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