

**SUMMARY OF ANALYSIS (SAMPLE ID: SA39603)**

<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> OR11323 <b>Lot Number:</b> M00065C13248599045 <b>Production Run:</b> E20241205ATLB01	<b>Sample Type:</b> Primary <b>Matrix:</b> Concentrate <b>Mass:</b> 4ea <b>Date Collected:</b> 12/05/2024 <b>Date Received:</b> 12/05/2024
<b>Cultivar (Strain) or Sample Description:</b> Apple Tartz Hybrid Live Badder 1g Jar			<b>Date Completed:</b> 12/09/2024

\*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.

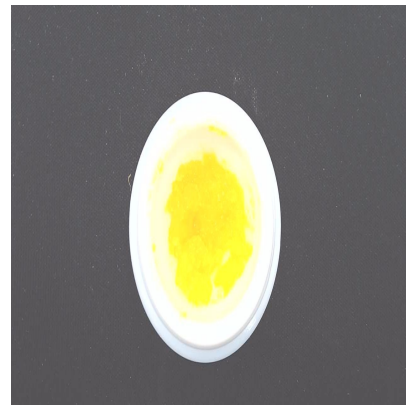
Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

<b>Cannabinoids (Top 3)</b>	<b>(%)</b>	<b>mg/g</b>
THCA	91.1	911
CBGA	2.10	21.0
Δ9-THC	0.919	9.19
TOTAL CBD	0.000	0.000
TOTAL THC	80.8	808
TOTAL CANNABINOIDS	94.9	949

<b>Terpenes (Top 5)</b>	<b>(%)</b>	<b>µg/g</b>
β-Caryophyllene	1.85	18500
α-Humulene	0.706	7060
β-Myrcene	0.702	7020
d-Limonene	0.594	5940
Linalool	0.395	3950
TOTAL TERPENES	4.85	48500

<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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**REPORT OF LABORATORY ANALYSIS**

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



**CERTIFICATE OF ANALYSIS (SAMPLE ID: SA39603)**

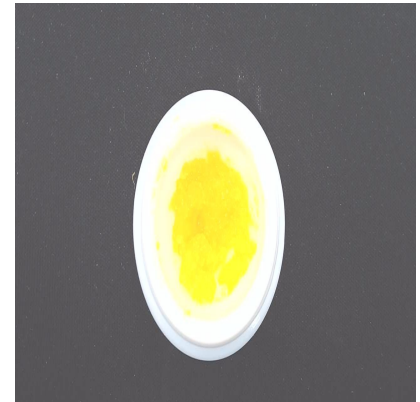
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**Cultivar (Strain) or Sample Description:** Apple Tartz Hybrid Live Badder 1g Jar **Date Completed:** 12/09/2024

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

**Analysis Date/Time:** 12/06/2024 1311 **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	0.108	0.252	-	0.000	0.000
CBCA	ND	ND	0.335	0.783	-	0.000	0.000
CBD	ND	ND	0.762	1.78	-	0.000	0.000
CBDA	ND	ND	0.280	0.655	-	0.000	0.000
CBDV	ND	ND	0.122	0.285	-	0.000	0.000
CBDVA	ND	ND	0.326	0.761	-	0.000	0.000
CBG	0.259	2.59	0.495	1.15	-	2.59	2.59
CBGA	2.10	21.0	0.701	0.827	-	21.0	21.0
CBL	ND	ND	0.571	1.33	-	0.000	0.000
CBN	ND	ND	0.262	0.613	-	0.000	0.000
CBNA	ND	ND	0.283	0.660	-	0.000	0.000
CBT	ND	ND	0.411	0.958	-	0.000	0.000
Δ9-THC	0.919	9.19	0.315	0.733	-	9.19	9.19
Δ8-THC	ND	ND	0.491	1.15	-	0.000	0.000
THCA	91.1	911	0.171	0.399	-	911	911
THCV	ND	ND	0.409	0.954	-	0.000	0.000
THCVA	0.550	5.50	0.131	0.304	-	5.50	5.50
<b>TOTAL</b>	<b>94.9</b>	<b>949</b>			-	<b>949</b>	<b>949</b>
<b>TOTAL CBC</b>	<b>0.000</b>	<b>0.000</b>			-	<b>0.000</b>	<b>0.000</b>
<b>TOTAL CBD</b>	<b>0.000</b>	<b>0.000</b>			-	<b>0.000</b>	<b>0.000</b>
<b>TOTAL CBDV</b>	<b>0.000</b>	<b>0.000</b>			-	<b>0.000</b>	<b>0.000</b>
<b>TOTAL CBG</b>	<b>2.10</b>	<b>21.0</b>			-	<b>21.0</b>	<b>21.0</b>
<b>TOTAL CBN</b>	<b>0.000</b>	<b>0.000</b>			-	<b>0.000</b>	<b>0.000</b>
<b>TOTAL THC</b>	<b>80.8</b>	<b>808</b>			-	<b>808</b>	<b>808</b>
<b>TOTAL THCV</b>	<b>0.477</b>	<b>4.77</b>			-	<b>4.77</b>	<b>4.77</b>



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

"-" Not reported for this sample.

*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, ND - Not Detected (less than LOD)

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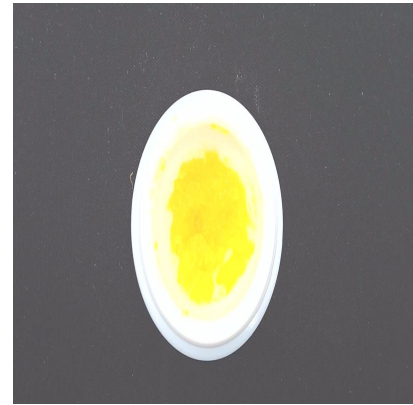
**TERPENOID PROFILE**

**Analysis Date/Time:** 12/07/2024 1936  
**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	1460	0.146	■
Camphene	173	0.0173	■
δ-3-Carene	ND	-	
β-Caryophyllene	18500	1.85	■
Caryophyllene oxide	292	0.0292	■
p-Cymene	<LOQ	-	
Eucalyptol	ND	-	
Geraniol	52.0	0.00520	■
Guaiol	ND	-	
α-Humulene	7060	0.706	■
Isopulegol	<LOQ	-	
d-Limonene	5940	0.594	■
Linalool	3950	0.395	■
β-Myrcene	7020	0.702	■
cis-Nerolidol	ND	-	
trans-Nerolidol	1080	0.108	■
α-Ocimene	ND	-	
β-Ocimene	922	0.0922	■
α-Pinene	685	0.0685	■
β-Pinene	1140	0.114	■
α-Terpinene	<LOQ	-	
γ-Terpinene	ND	-	
Terpinolene	175	0.0175	■
<b>TOTAL</b>	<b>48500</b>	<b>4.85</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): 47.4**

"-" Not detected above LOD.

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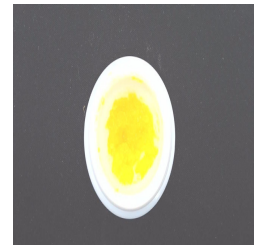
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**Cultivar (Strain) or Sample Description:** Apple Tartz Hybrid Live Badder 1g Jar **Date Completed:** 12/09/2024

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

<b>Analysis Date/Time:</b> 12/06/2024 0921	<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)	-	25.0	50.0	5000	n-Heptane (142-82-5)	-	25.0	50.0	5000
Acetonitrile (75-5-8)	-	25.0	50.0	410	n-Hexane (110-54-3)	-	8.76	17.5	290
Benzene (71-43-2)	-	0.250	0.500	2	Isobutane (75-28-5)	-	25.0	50.0	5000
n-Butane (106-97-2)	-	25.0	50.0	5000	Isopropanol (67-63-0)	-	25.0	50.0	5000
1-Butanol (71-36-3)	-	25.0	50.0	5000	Isopropyl acetate (108-21-4)	-	25.0	50.0	5000
2-Butanol (78-92-2)	-	25.0	50.0	5000	Isopropyl benzene (98-82-8)	-	2.50	5.00	70
2-Butanone (78-93-3)	-	25.0	50.0	5000	Methanol (67-56-1)	-	25.0	50.0	3000
Cyclohexane (110-82-7)	-	25.0	50.0	3880	2-Methylbutane (78-78-4)	-	25.0	50.0	5000
1,2-Dimethoxyethane (110-71-4)	-	2.50	5.00	100	Methylene chloride (75-9-2)	-	25.0	50.0	600
N,N-Dimethylacetamide (127-19-5)	-	25.0	50.0	1090	2-Methylpentane (107-83-5)	-	8.76	17.5	290
2,2-Dimethylbutane (75-83-2)	-	8.76	17.5	290	3-Methylpentane (96-10-0)	-	8.76	17.5	290
2,3-Dimethylbutane (79-29-8)	-	8.76	17.5	290	n-Pentane (109-66-0)	-	25.0	50.0	5000
N,N-Dimethylformamide (68-12-2)	-	25.0	50.0	880	1-Pentanol (71-41-0)	-	25.0	50.0	5000
Dimethylsulfoxide (67-68-5)	-	25.0	50.0	5000	n-Propane (74-98-6)	-	25.0	50.0	5000
1,4-Dioxane (123-91-1)	-	25.0	50.0	380	1-Propanol (71-23-8)	-	25.0	50.0	5000
Ethanol (64-17-5)	-	25.0	50.0	5000	Pyridine (110-86-1)	-	8.76	17.5	200
2-Ethoxyethanol (110-80-5)	-	8.76	17.5	160	Tetrahydrofuran (109-99-9)	-	25.0	50.0	720
Ethyl ether (60-29-7)	-	25.0	50.0	5000	Tetramethylene sulfone (126-33-0)	-	8.76	17.5	160
Ethyl acetate (141-78-6)	-	25.0	50.0	5000	Toluene (108-88-3)	-	25.0	50.0	890
Ethyl benzene (100-41-4)	-	25.0	50.0	2170	o-Xylene (95-47-6)	-	25.0	50.0	2170
Ethylene glycol (107-21-1)	-	25.0	50.0	620	m,p-Xylene (108-38-3 or 106-42-3)	-	25.0	50.0	2170
Ethylene oxide (75-21-8)	-	2.50	5.00	50	Xylenes* (1330-20-7)	-	43.3	86.7	2170



**Color Key**

**RESULT < AL**  
**RESULT > AL**

"-" not detected above 1/2 Action Level

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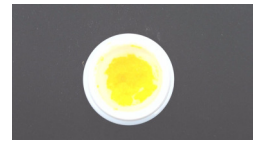
**PESTICIDES PROFILE (SOP: SOP-PEST-001)**

**Analysis Date/Time:** 12/07/2024 1628  
**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)	-	0.0469	0.375	0.5	Kresoxim-methyl (143390-89-0)	-	0.0469	0.375	0.4
Acephate (30560-19-1)	-	0.0469	0.375	0.4	Malathion (121-75-5)	-	0.0469	0.375	0.2
Acetamiprid (57960-19-7)	-	0.0469	0.375	2	Metalaxyl (57837-19-1)	-	0.0469	0.375	0.2
Acetamiprid (135410-20-7)	-	0.0469	0.375	0.2	Methiocarb (2032-65-7)	-	0.0469	0.375	0.2
Aldicarb (116-06-3)	-	0.0469	0.375	0.4	Methomyl (16752-77-5)	-	0.0469	0.375	0.4
Azoxystrobin (131860-33-8)	-	0.0469	0.375	0.2	Methyl parathion (298-0-0)	-	0.0469	0.375	0.2
Bifenazate (149877-41-8)	-	0.0469	0.375	0.2	MGK 264 (113-48-4)	-	0.0469	0.375	0.2
Bifenthrin (82657-04-3)	-	0.0469	0.375	0.2	Myclobutanil (88671-89-0)	-	0.0469	0.375	0.2
Boscalid (188425-85-6)	-	0.0469	0.375	0.4	Naled (300-76-5)	-	0.0469	0.375	0.5
Carbaryl (63-25-2)	-	0.0469	0.375	0.2	Oxamyl (23135-22-0)	-	0.0469	0.375	1
Carbofuran (1563-66-2)	-	0.0469	0.375	0.2	Pacllobutrazol (76738-62-0)	-	0.0469	0.375	0.4
Chlorantraniliprole (800008-45-7)	-	0.0469	0.375	0.2	Permethrins (52645-53-1)	-	0.0469	0.375	0.2
Chlorfenapyr (122453-73-0)	-	0.0469	0.375	1	Phosmet (732-11-6)	-	0.0469	0.375	0.2
Chlorpyrifos (2921-88-2)	-	0.0469	0.375	0.2	Piperonyl butoxide (51-03-6)	-	0.0469	0.375	2
Clofentezine (74115-24-5)	-	0.0469	0.375	0.2	Prallethrins (2331-36-9)	-	0.0469	0.375	0.2
Cyfluthrin (68359-37-5)	-	0.0469	0.375	1	Propiconazole (60207-90-1)	-	0.0469	0.375	0.4
Cypermethrin (52315-07-8)	-	0.0469	0.375	1	Propoxur (114-26-1)	-	0.0469	0.375	0.2
Daminozide (1596-84-5)	-	0.0469	0.375	1	Pyrethrins (8003-34-7)	-	0.0469	0.375	1
DDVP (62-73-7)	-	0.0469	0.375	0.1	Pyridaben (96489-71-3)	-	0.0469	0.375	0.2
Diazinon (333-41-5)	-	0.0469	0.375	0.2	Spinosad (168316-95-8)	-	0.0469	0.375	0.2
Dimethoate (60-51-5)	-	0.0469	0.375	0.2	Spiromesifen (283594-90-1)	-	0.0469	0.375	0.2
Ethoprophos (13194-48-4)	-	0.0469	0.375	0.2	Spirotetramat (203313-25-1)	-	0.0469	0.375	0.2
Etofenprox (80844-07-1)	-	0.0469	0.375	0.4	Spiroxamine (118134-30-8)	-	0.0469	0.375	0.4
Etoxazole (153233-91-1)	-	0.0469	0.375	0.2	Tebuconazole (80443-41-0)	-	0.0469	0.375	0.4
Fenoxycarb (72490-01-8)	-	0.0469	0.375	0.2	Thiacloprid (111988-49-9)	-	0.0469	0.375	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0469	0.375	0.4	Thiamethoxam (153719-23-4)	-	0.0469	0.375	0.2
Fipronil (120068-37-3)	-	0.0469	0.375	0.4	Trifloxystrobin (141517-21-7)	-	0.0469	0.375	0.2
Fonicamid (158062-67-0)	-	0.0469	0.375	1					
Fludioxinil (131341-86-1)	-	0.0469	0.375	0.4					
Hexythiazox (78587-05-0)	-	0.0469	0.375	1					
Imazalil (35554-44-0)	-	0.0469	0.375	0.2					
Imidacloprid (138261-41-3)	-	0.0469	0.375	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		

**REPORT OF LABORATORY ANALYSIS**

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

**CERTIFICATE OF ANALYSIS (SAMPLE ID: SA39603)**

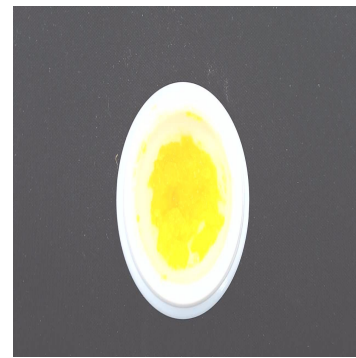
<b>Testing Location:</b> Arkansas 232 S. Broadview St. Greenbrier, AR 72058 License: ADH 113	<b>Customer ID:</b> 2168 River Valley Relief MIPS 5601 Old Greenwood Rd Suite C Fort Smith, AR 72903 License: 00065C	<b>Order ID:</b> OR11323 <b>Lot Number:</b> M00065C13248599045 <b>Production Run:</b> E20241205ATLB01	<b>Sample Type:</b> Primary <b>Matrix:</b> Concentrate <b>Mass:</b> 4ea <b>Date Collected:</b> 12/05/2024 <b>Date Received:</b> 12/05/2024
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**Cultivar (Strain) or Sample Description:** Apple Tartz Hybrid Live Badder 1g Jar **Date Completed:** 12/09/2024

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

<b>Analysis Date/Time:</b> 12/07/2024 1754	<b>Method:</b> ICP/MS	<b>Deviations from SOP:</b>
<b>Analyst:</b> KF	<b>Instrument:</b> Agilent 7500ce	None

<u>Heavy Metal</u>	<u>Result</u> <u>(µg/kg)</u>	<u>LOD</u> <u>(µg/kg)</u>	<u>LOQ</u> <u>(µg/kg)</u>	<u>Action Level</u> <u>(µg/kg)</u>
Arsenic (As)	-	59.2	93.7	200
Cadmium (Cd)	-	59.2	93.7	200
Lead (Pb)	-	59.2	93.7	500
Mercury (Hg)	-	59.2	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

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



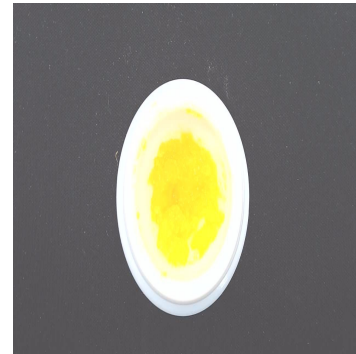
**CERTIFICATE OF ANALYSIS (SAMPLE ID: SA39603)**

<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> SA39603 <b>Lot Number:</b> M00065C13248599045 <b>Production Run:</b> E20241205ATLB01	<b>Sample Type:</b> Primary <b>Matrix:</b> Concentrate <b>Mass:</b> 4ea <b>Date Collected:</b> 12/05/2024 <b>Date Received:</b> 12/05/2024
<b>Cultivar (Strain) or Sample Description:</b> Apple Tartz Hybrid Live Badder 1g Jar			<b>Date Completed:</b> 12/09/2024

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

**Analysis Date/Time:** 12/06/2024 1233      **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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 Laboratory Director

