

**SUMMARY OF ANALYSIS (SAMPLE ID: SA38810)**

<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> OR11186 <b>Lot Number:</b> M00065C13246682838 <b>Production Run:</b> E20240904BDZLB03	<b>Sample Type:</b> Primary <b>Matrix:</b> Concentrate <b>Mass:</b> 4ea <b>Date Collected:</b> 09/05/2024 <b>Date Received:</b> 09/05/2024
<b>Cultivar (Strain) or Sample Description:</b> Baker's Dozen Hybrid Live Badder 1g Jar			<b>Date Completed:</b> 09/08/2024

\*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	88.1	881
CBGA	2.35	23.5
THCVA	0.891	8.91
TOTAL CBD	0.0602	0.602
TOTAL THC	77.9	779
TOTAL CANNABINOIDS	93.0	930

<b>Terpenes (Top 5)</b>	<b>(%)</b>	<b>µg/g</b>
β-Caryophyllene	2.09	20900
d-Limonene	1.33	13300
β-Myrcene	0.922	9220
Linalool	0.766	7660
α-Humulene	0.754	7540
TOTAL TERPENES	6.89	68900

<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

[www.FASTLaboratories.com](http://www.FASTLaboratories.com)



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

**Analysis Date/Time:** 09/06/2024 1618  
**Analyst:** PW

**Method:** HPLC/DAD  
**Instrument:** Agilent 1100

**Moisture Content (%):** -  
**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	0.234	2.34	0.100	0.233	-	2.34	2.34
CBCA	0.707	7.07	0.311	0.725	-	7.07	7.07
CBD	ND	ND	0.706	1.65	-	-	-
CBDA	0.0687	0.687	0.260	0.606	-	0.687	0.687
CBDV	ND	ND	0.113	0.264	-	-	-
CBDVA	ND	ND	0.302	0.705	-	-	-
CBG	ND	ND	0.458	1.07	-	-	-
CBGA	2.35	23.5	0.649	0.766	-	23.5	23.5
CBL	ND	ND	0.529	1.24	-	-	-
CBN	ND	ND	0.243	0.568	-	-	-
CBNA	ND	ND	0.262	0.612	-	-	-
Δ9-THC	0.655	6.55	0.291	0.679	-	6.55	6.55
Δ8-THC	ND	ND	0.455	1.06	-	-	-
THCA	88.1	881	0.158	0.369	-	881	881
THCV	ND	ND	0.379	0.884	-	-	-
THCVA	0.891	8.91	0.121	0.282	-	8.91	8.91
<b>TOTAL</b>	<b>93.0</b>	<b>930</b>				<b>930</b>	<b>930</b>
<b>TOTAL CBC</b>	<b>0.854</b>	<b>8.54</b>				<b>8.54</b>	<b>8.54</b>
<b>TOTAL CBD</b>	<b>0.0602</b>	<b>0.602</b>				<b>0.602</b>	<b>0.602</b>
<b>TOTAL CBDV</b>	<b>-</b>	<b>-</b>				<b>-</b>	<b>-</b>
<b>TOTAL CBG</b>	<b>2.06</b>	<b>20.6</b>				<b>20.6</b>	<b>20.6</b>
<b>TOTAL CBN</b>	<b>-</b>	<b>-</b>				<b>-</b>	<b>-</b>
<b>TOTAL THC</b>	<b>77.9</b>	<b>779</b>				<b>779</b>	<b>779</b>
<b>TOTAL THCV</b>	<b>0.773</b>	<b>7.73</b>				<b>7.73</b>	<b>7.73</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) + 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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<b>Cultivar (Strain) or Sample Description:</b> Baker's Dozen Hybrid Live Badder 1g Jar			<b>Date Completed:</b> 09/08/2024

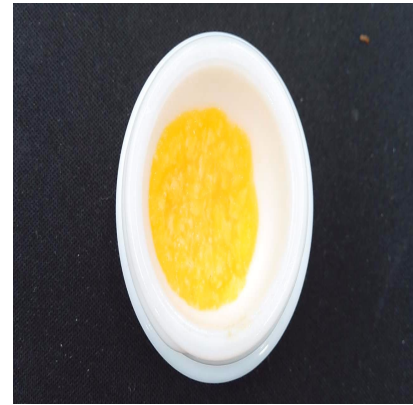
**TERPENOID PROFILE**

**Analysis Date/Time:** 09/06/2024 2123  
**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	638	0.0638
Camphene	465	0.0465
δ-3-Carene	<LOQ	-
β-Caryophyllene	20900	2.09
Caryophyllene oxide	383	0.0383
p-Cymene	ND	-
Eucalyptol	<LOQ	-
Geraniol	<LOQ	-
Guaiol	ND	-
α-Humulene	7540	0.754
Isopulegol	<LOQ	-
d-Limonene	13300	1.33
Linalool	7660	0.766
β-Myrcene	9220	0.922
cis-Nerolidol	ND	-
trans-Nerolidol	<LOQ	-
α-Ocimene	295	0.0295
β-Ocimene	1170	0.117
α-Pinene	1460	0.146
β-Pinene	2430	0.243
α-Terpinene	113	0.0113
γ-Terpinene	50.8	0.00508
Terpinolene	3320	0.332
<b>TOTAL</b>	<b>68900</b>	<b>6.89</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): 43.9**

"-" Not detected above LOD.

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*Kyle W. Felling*  
Kyle W. Felling, Ph.D.  
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**RESIDUAL SOLVENT PROFILE (SOP: SOP-RS-001)**

<b>Analysis Date/Time:</b> 09/05/2024 2356	<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)	-	31.9	63.8	5000	n-Heptane (142-82-5)	-	31.9	63.8	5000
Acetonitrile (75-5-8)	-	31.9	63.8	410	n-Hexane (110-54-3)	-	11.2	22.3	290
Benzene (71-43-2)	-	0.319	0.638	2	Isobutane (75-28-5)	-	31.9	63.8	5000
n-Butane (106-97-2)	-	31.9	63.8	5000	Isopropanol (67-63-0)	-	31.9	63.8	5000
1-Butanol (71-36-3)	-	31.9	63.8	5000	Isopropyl acetate (108-21-4)	-	31.9	63.8	5000
2-Butanol (78-92-2)	-	31.9	63.8	5000	Isopropyl benzene (98-82-8)	-	3.19	6.38	70
2-Butanone (78-93-3)	-	31.9	63.8	5000	Methanol (67-56-1)	-	31.9	63.8	3000
Cyclohexane (110-82-7)	-	31.9	63.8	3880	2-Methylbutane (78-78-4)	-	31.9	63.8	5000
1,2-Dimethoxyethane (110-71-4)	-	3.19	6.38	100	Methylene chloride (75-9-2)	-	31.9	63.8	600
N,N-Dimethylacetamide (127-19-5)	-	31.9	63.8	1090	2-Methylpentane (107-83-5)	-	11.2	22.3	290
2,2-Dimethylbutane (75-83-2)	-	11.2	22.3	290	3-Methylpentane (96-10-0)	-	11.2	22.3	290
2,3-Dimethylbutane (79-29-8)	-	11.2	22.3	290	n-Pentane (109-66-0)	-	31.9	63.8	5000
N,N-Dimethylformamide (68-12-2)	-	31.9	63.8	880	1-Pentanol (71-41-0)	-	31.9	63.8	5000
Dimethylsulfoxide (67-68-5)	-	31.9	63.8	5000	n-Propane (74-98-6)	-	31.9	63.8	5000
1,4-Dioxane (123-91-1)	-	31.9	63.8	380	1-Propanol (71-23-8)	-	31.9	63.8	5000
Ethanol (64-17-5)	-	31.9	63.8	5000	Pyridine (110-86-1)	-	11.2	22.3	200
2-Ethoxyethanol (110-80-5)	-	11.2	22.3	160	Tetrahydrofuran (109-99-9)	-	31.9	63.8	720
Ethyl ether (60-29-7)	-	31.9	63.8	5000	Tetramethylene sulfone (126-33-0)	-	11.2	22.3	160
Ethyl acetate (141-78-6)	-	31.9	63.8	5000	Toluene (108-88-3)	-	31.9	63.8	890
Ethyl benzene (100-41-4)	-	31.9	63.8	2170	o-Xylene (95-47-6)	-	31.9	63.8	2170
Ethylene glycol (107-21-1)	-	31.9	63.8	620	m,p-Xylene (108-38-3 or 106-42-3)	-	31.9	63.8	2170
Ethylene oxide (75-21-8)	-	3.19	6.38	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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**Cultivar (Strain) or Sample Description:** Baker's Dozen Hybrid Live Badder 1g Jar **Date Completed:** 09/08/2024

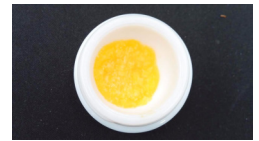
**PESTICIDES PROFILE (SOP: SOP-PEST-001)**

**Analysis Date/Time:** 09/06/2024 1737  
**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)	-	0.0437	0.349	0.5	Kresoxim-methyl (143390-89-0)	-	0.0437	0.349	0.4
Acephate (30560-19-1)	-	0.0437	0.349	0.4	Malathion (121-75-5)	-	0.0437	0.349	0.2
Acetaminocyl (57960-19-7)	-	0.0437	0.349	2	Metalaxyl (57837-19-1)	-	0.0437	0.349	0.2
Acetamiprid (135410-20-7)	-	0.0437	0.349	0.2	Methiocarb (2032-65-7)	-	0.0437	0.349	0.2
Aldicarb (116-06-3)	-	0.0437	0.349	0.4	Methomyl (16752-77-5)	-	0.0437	0.349	0.4
Azoxystrobin (131860-33-8)	-	0.0437	0.349	0.2	Methyl parathion (298-0-0)	-	0.0437	0.349	0.2
Bifenazate (149877-41-8)	-	0.0437	0.349	0.2	MGK 264 (113-48-4)	-	0.0437	0.349	0.2
Bifenthrin (82657-04-3)	-	0.0437	0.349	0.2	Myclobutanil (88671-89-0)	-	0.0437	0.349	0.2
Boscalid (188425-85-6)	-	0.0437	0.349	0.4	Naled (300-76-5)	-	0.0437	0.349	0.5
Carbaryl (63-25-2)	-	0.0437	0.349	0.2	Oxamyl (23135-22-0)	-	0.0437	0.349	1
Carbofuran (1563-66-2)	-	0.0437	0.349	0.2	Pacllobutrazol (76738-62-0)	-	0.0437	0.349	0.4
Chlorantraniliprole (800008-45-7)	-	0.0437	0.349	0.2	Permethrins (52645-53-1)	-	0.0437	0.349	0.2
Chlorfenapyr (122453-73-0)	-	0.0437	0.349	1	Phosmet (732-11-6)	-	0.0437	0.349	0.2
Chlorpyrifos (2921-88-2)	-	0.0437	0.349	0.2	Piperonyl butoxide (51-03-6)	-	0.0437	0.349	2
Clofentezine (74115-24-5)	-	0.0437	0.349	0.2	Prallethrins (2331-36-9)	-	0.0437	0.349	0.2
Cyfluthrin (68359-37-5)	-	0.0437	0.349	1	Propiconazole (60207-90-1)	-	0.0437	0.349	0.4
Cypermethrin (52315-07-8)	-	0.0437	0.349	1	Propoxur (114-26-1)	-	0.0437	0.349	0.2
Daminozide (1596-84-5)	-	0.0437	0.349	1	Pyrethrins (8003-34-7)	-	0.0437	0.349	1
DDVP (62-73-7)	-	0.0437	0.349	0.1	Pyridaben (96489-71-3)	-	0.0437	0.349	0.2
Diazinon (333-41-5)	-	0.0437	0.349	0.2	Spinosad (168316-95-8)	-	0.0437	0.349	0.2
Dimethoate (60-51-5)	-	0.0437	0.349	0.2	Spiromesifen (283594-90-1)	-	0.0437	0.349	0.2
Ethoprophos (13194-48-4)	-	0.0437	0.349	0.2	Spirotetramat (203313-25-1)	-	0.0437	0.349	0.2
Etofenprox (80844-07-1)	-	0.0437	0.349	0.4	Spiroxamine (118134-30-8)	-	0.0437	0.349	0.4
Etoxazole (153233-91-1)	-	0.0437	0.349	0.2	Tebuconazole (80443-41-0)	-	0.0437	0.349	0.4
Fenoxycarb (72490-01-8)	-	0.0437	0.349	0.2	Thiacloprid (111988-49-9)	-	0.0437	0.349	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0437	0.349	0.4	Thiamethoxam (153719-23-4)	-	0.0437	0.349	0.2
Fipronil (120068-37-3)	-	0.0437	0.349	0.4	Trifloxystrobin (141517-21-7)	-	0.0437	0.349	0.2
Fonicamid (158062-67-0)	-	0.0437	0.349	1					
Fludioxinil (131341-86-1)	-	0.0437	0.349	0.4					
Hexythiazox (78587-05-0)	-	0.0437	0.349	1					
Imazalil (35554-44-0)	-	0.0437	0.349	0.2					
Imidacloprid (138261-41-3)	-	0.0437	0.349	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: SA38810)**

<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> OR11186 <b>Lot Number:</b> M00065C13246682838 <b>Production Run:</b> E20240904BDZLB03	<b>Sample Type:</b> Primary <b>Matrix:</b> Concentrate <b>Mass:</b> 4ea <b>Date Collected:</b> 09/05/2024 <b>Date Received:</b> 09/05/2024
<b>Cultivar (Strain) or Sample Description:</b> Baker's Dozen Hybrid Live Badder 1g Jar			<b>Date Completed:</b> 09/08/2024

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

**Analysis Date/Time:** 09/06/2024 1818      **Method:** ICP/MS      **Deviations from SOP:** None  
**Analyst:** KF      **Instrument:** Agilent 7500ce

<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)	-	59.7	94.5	200
Cadmium (Cd)	-	59.7	94.5	200
Lead (Pb)	-	59.7	94.5	500
Mercury (Hg)	-	59.7	94.5	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**



"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: SA38810)**

<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> SA38810 <b>Lot Number:</b> M00065C13246682838 <b>Production Run:</b> E20240904BDZLB03	<b>Sample Type:</b> Primary <b>Matrix:</b> Concentrate <b>Mass:</b> 4ea <b>Date Collected:</b> 09/05/2024 <b>Date Received:</b> 09/05/2024
<b>Cultivar (Strain) or Sample Description:</b> Baker's Dozen Hybrid Live Badder 1g Jar			<b>Date Completed:</b> 09/08/2024

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

**Analysis Date/Time:** 09/06/2024 1406      **Method:** Hardy Diagnostics CompactDry      **Deviations from SOP:**  
**Analyst:** PW      **Instrument:** 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	-
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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