

**SUMMARY OF ANALYSIS (SAMPLE ID: SA37154)**

<b>Testing Location:</b>	<b>Customer ID:</b> 2168	<b>Order ID:</b> OR10873	<b>Sample Type:</b> Primary
Arkansas	River Valley Relief MIPS	<b>Lot Number:</b>	<b>Matrix:</b> Edible
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13227381597	<b>Mass:</b> 1g
Greenbrier, AR 72058	Fort Smith, AR 72903	<b>Production Run:</b>	<b>Date Collected:</b> 02/19/2024
License: ADH 113	License: 00065C	P20240207GHEE07	<b>Date Received:</b> 02/19/2024
<b>Cultivar (Strain) or Sample Description:</b> ARV-Infused Ghee Butter			<b>Date Completed:</b> 02/20/2024

\*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>
Δ9-THC	0.649	6.49
CBD	0.0400	0.400
CBG	0.0177	0.177
TOTAL CBD	0.0400	0.400
TOTAL THC	0.649	6.49
TOTAL CANNABINOIDS	0.729	7.29

<b>Terpenes (Top 5)</b>	<b>(%)</b>	<b>µg/g</b>
β-Caryophyllene	0.000120	1.20
α-Bisabolol		
Camphene		
δ-3-Carene		
Caryophyllene oxide		
TOTAL TERPENES	0.000120	1.20

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

**Analysis Date/Time:** 02/20/2024 1629

**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	0.00225	0.00524	-	-	-
CBCA	ND	ND	0.00698	0.0163	-	-	-
CBD	0.0400	0.400	0.0158	0.0370	-	0.600	36.0
CBDa	ND	ND	0.00583	0.0136	-	-	-
CBDV	ND	ND	0.00254	0.00593	-	-	-
CBDVA	ND	ND	0.00678	0.0158	-	-	-
CBG	0.0177	0.177	0.0103	0.0240	-	0.266	16.0
CBGA	ND	ND	0.0146	0.0172	-	-	-
CBL	ND	ND	0.0119	0.0278	-	-	-
CBN	0.0120	0.120	0.00546	0.0128	-	0.180	10.8
CBNA	ND	ND	0.00589	0.0137	-	-	-
Δ9-THC	0.649	6.49	0.00654	0.0153	-	9.74	584
Δ8-THC	ND	ND	0.0102	0.0238	-	-	-
THCA	ND	ND	0.00355	0.00830	-	-	-
THCV	0.0104	0.104	0.00852	0.0199	-	0.156	9.37
THCVA	ND	ND	0.00272	0.00633	-	-	-
<b>TOTAL</b>	<b>0.729</b>	<b>7.29</b>			-	<b>10.9</b>	<b>656</b>
<b>TOTAL CBC</b>	-	-			-	-	-
<b>TOTAL CBD</b>	0.0400	0.400			-	0.600	36.0
<b>TOTAL CBDV</b>	-	-			-	-	-
<b>TOTAL CBG</b>	0.0177	0.177			-	0.266	16.0
<b>TOTAL CBN</b>	0.0120	0.120			-	0.180	10.8
<b>TOTAL THC</b>	0.649	6.49			-	9.74	584
<b>TOTAL THCV</b>	0.0104	0.104			-	0.156	9.37



**SERVING MASS (g):** 1.50  
**SERVINGS/UNIT:** 60

"-" 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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<b>Cultivar (Strain) or Sample Description:</b> ARV-Infused Ghee Butter			<b>Date Completed:</b> 02/20/2024

**TERPENOID PROFILE**

**Analysis Date/Time:** 02/20/2024 0818

**Method:** GC/MS

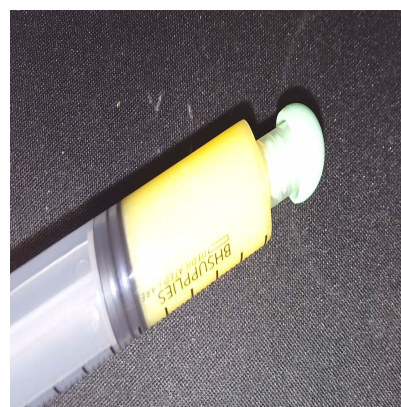
**Deviations from SOP:**

**Analyst:** KF

**Instrument:** Agilent 7890/5975

None

<b>Terpene</b>	<b>Result (µg/g)</b>	<b>Result (%)</b>
α-Bisabolol	ND	-
Camphene	ND	-
δ-3-Carene	ND	-
β-Caryophyllene	1.20	0.000120
Caryophyllene oxide	ND	-
p-Cymene	ND	-
Eucalyptol	ND	-
Geraniol	ND	-
Guaiol	ND	-
α-Humulene	<LOQ	-
Isopulegol	ND	-
d-Limonene	ND	-
Linalool	ND	-
β-Myrcene	ND	-
cis-Nerolidol	ND	-
trans-Nerolidol	ND	-
α-Ocimene	ND	-
β-Ocimene	ND	-
α-Pinene	ND	-
β-Pinene	ND	-
α-Terpinene	ND	-
γ-Terpinene	ND	-
Terpinolene	ND	-
<b>TOTAL</b>	1.20	0.000120



**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): 1.00**

"-" Not detected above LOD.

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<b>Cultivar (Strain) or Sample Description:</b> ARV-Infused Ghee Butter			<b>Date Completed:</b> 02/20/2024

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

<b>Analysis Date/Time:</b> 02/19/2024 2346	<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)	-	106	212	5000	n-Heptane (142-82-5)	-	106	212	5000
Acetonitrile (75-5-8)	-	106	212	410	n-Hexane (110-54-3)	-	37.0	74.1	290
Benzene (71-43-2)	-	1.06	2.12	2	Isobutane (75-28-5)	-	106	212	5000
n-Butane (106-97-2)	-	106	212	5000	Isopropanol (67-63-0)	-	106	212	5000
1-Butanol (71-36-3)	-	106	212	5000	Isopropyl acetate (108-21-4)	-	106	212	5000
2-Butanol (78-92-2)	-	106	212	5000	Isopropyl benzene (98-82-8)	-	10.6	21.2	70
2-Butanone (78-93-3)	-	106	212	5000	Methanol (67-56-1)	-	106	212	3000
Cyclohexane (110-82-7)	-	106	212	3880	2-Methylbutane (78-78-4)	-	106	212	5000
1,2-Dimethoxyethane (110-71-4)	-	10.6	21.2	100	Methylene chloride (75-9-2)	-	106	212	600
N,N-Dimethylacetamide (127-19-5)	-	106	212	1090	2-Methylpentane (107-83-5)	-	37.0	74.1	290
2,2-Dimethylbutane (75-83-2)	-	37.0	74.1	290	3-Methylpentane (96-10-0)	-	37.0	74.1	290
2,3-Dimethylbutane (79-29-8)	-	37.0	74.1	290	n-Pentane (109-66-0)	-	106	212	5000
N,N-Dimethylformamide (68-12-2)	-	106	212	880	1-Pentanol (71-41-0)	-	106	212	5000
Dimethylsulfoxide (67-68-5)	-	106	212	5000	n-Propane (74-98-6)	-	106	212	5000
1,4-Dioxane (123-91-1)	-	106	212	380	1-Propanol (71-23-8)	-	106	212	5000
Ethanol (64-17-5)	-	106	212	5000	Pyridine (110-86-1)	-	37.0	74.1	200
2-Ethoxyethanol (110-80-5)	-	37.0	74.1	160	Tetrahydrofuran (109-99-9)	-	106	212	720
Ethyl ether (60-29-7)	-	106	212	5000	Tetramethylene sulfone (126-33-0)	-	37.0	74.1	160
Ethyl acetate (141-78-6)	-	106	212	5000	Toluene (108-88-3)	-	106	212	890
Ethyl benzene (100-41-4)	-	106	212	2170	o-Xylene (95-47-6)	-	106	212	2170
Ethylene glycol (107-21-1)	-	106	212	620	m,p-Xylene (108-38-3 or 106-42-3)	-	106	212	2170
Ethylene oxide (75-21-8)	-	10.6	21.2	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.

<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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**Cultivar (Strain) or Sample Description:** ARV-Infused Ghee Butter **Date Completed:** 02/20/2024

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

**Analysis Date/Time:** 02/20/2024 1625

**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)	-	9.86e-07	7.89e-06	0.5	Kresoxim-methyl (143390-89-0)	-	9.86e-07	7.89e-06	0.4
Acephate (30560-19-1)	-	9.86e-07	7.89e-06	0.4	Malathion (121-75-5)	-	9.86e-07	7.89e-06	0.2
Acequinocyl (57960-19-7)	-	9.86e-07	7.89e-06	2	Metalaxyl (57837-19-1)	-	9.86e-07	7.89e-06	0.2
Acetamiprid (135410-20-7)	-	9.86e-07	7.89e-06	0.2	Methiocarb (2032-65-7)	-	9.86e-07	7.89e-06	0.2
Aldicarb (116-06-3)	-	9.86e-07	7.89e-06	0.4	Methomyl (16752-77-5)	-	9.86e-07	7.89e-06	0.4
Azoxystrobin (131860-33-8)	-	9.86e-07	7.89e-06	0.2	Methyl parathion (298-0-0)	-	9.86e-07	7.89e-06	0.2
Bifenazate (149877-41-8)	-	9.86e-07	7.89e-06	0.2	MGK 264 (113-48-4)	-	9.86e-07	7.89e-06	0.2
Bifenthrin (82657-04-3)	-	9.86e-07	7.89e-06	0.2	Myclobutanil (88671-89-0)	-	9.86e-07	7.89e-06	0.2
Boscalid (188425-85-6)	-	9.86e-07	7.89e-06	0.4	Naled (300-76-5)	-	9.86e-07	7.89e-06	0.5
Carbaryl (63-25-2)	-	9.86e-07	7.89e-06	0.2	Oxamyl (23135-22-0)	-	9.86e-07	7.89e-06	1
Carbofuran (1563-66-2)	-	9.86e-07	7.89e-06	0.2	Paclobutrazol (76738-62-0)	-	9.86e-07	7.89e-06	0.4
Chlorantraniliprole (800008-45-7)	-	9.86e-07	7.89e-06	0.2	Permethrins (52645-53-1)	-	9.86e-07	7.89e-06	0.2
Chlorfenapyr (122453-73-0)	-	9.86e-07	7.89e-06	1	Phosmet (732-11-6)	-	9.86e-07	7.89e-06	0.2
Chlorpyrifos (2921-88-2)	-	9.86e-07	7.89e-06	0.2	Piperonyl butoxide (51-03-6)	-	9.86e-07	7.89e-06	2
Clofentezine (74115-24-5)	-	9.86e-07	7.89e-06	0.2	Prallethrin (2331-36-9)	-	9.86e-07	7.89e-06	0.2
Cyfluthrin (68359-37-5)	-	9.86e-07	7.89e-06	1	Propiconazole (60207-90-1))	-	9.86e-07	7.89e-06	0.4
Cypermethrin (52315-07-8)	-	9.86e-07	7.89e-06	1	Propoxur (114-26-1)	-	9.86e-07	7.89e-06	0.2
Daminozide (1596-84-5)	-	9.86e-07	7.89e-06	1	Pyrethrins (8003-34-7)	-	9.86e-07	7.89e-06	1
DDVP (62-73-7)	-	9.86e-07	7.89e-06	0.1	Pyridaben (96489-71-3)	-	9.86e-07	7.89e-06	0.2
Diazinon (333-41-5)	-	9.86e-07	7.89e-06	0.2	Spinosad (168316-95-8)	-	9.86e-07	7.89e-06	0.2
Dimethoate (60-51-5)	-	9.86e-07	7.89e-06	0.2	Spiromesifen (283594-90-1)	-	9.86e-07	7.89e-06	0.2
Ethoprophos (13194-48-4)	-	9.86e-07	7.89e-06	0.2	Spirotetramat (203313-25-1)	-	9.86e-07	7.89e-06	0.2
Etofenprox (80844-07-1)	-	9.86e-07	7.89e-06	0.4	Spiroxamine (118134-30-8)	-	9.86e-07	7.89e-06	0.4
Etoxazole (153233-91-1)	-	9.86e-07	7.89e-06	0.2	Tebuconazole (80443-41-0)	-	9.86e-07	7.89e-06	0.4
Fenoxycarb (72490-01-8)	-	9.86e-07	7.89e-06	0.2	Thiacloprid (111988-49-9)	-	9.86e-07	7.89e-06	0.2
(E)-Fenpyroximate (134098-61-6)	-	9.86e-07	7.89e-06	0.4	Thiamethoxam (153719-23-4)	-	9.86e-07	7.89e-06	0.2
Fipronil (120068-37-3)	-	9.86e-07	7.89e-06	0.4	Trifloxystrobin (141517-21-7)	-	9.86e-07	7.89e-06	0.2
Flonicamid (158062-67-0)	-	9.86e-07	7.89e-06	1					
Fludioxinil (131341-86-1)	-	9.86e-07	7.89e-06	0.4					
Hexythiazox (78587-05-0)	-	9.86e-07	7.89e-06	1					
Imazalil (35554-44-0)	-	9.86e-07	7.89e-06	0.2					
Imidacloprid (138261-41-3)	-	9.86e-07	7.89e-06	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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medical-related symptoms. The  
statements and results herein have  
not been approved and/or  
endorsed by the FDA.

**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	Phosmet	Propoxur	Baygon
	Prophos				

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

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**CERTIFICATE OF ANALYSIS (SAMPLE ID: SA37154)**

<b>Testing Location:</b>	<b>Customer ID:</b> 2168	<b>Order ID:</b> OR10873	<b>Sample Type:</b> Primary
Arkansas	River Valley Relief MIPS	<b>Lot Number:</b>	<b>Matrix:</b> Edible
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13227381597	<b>Mass:</b> 1g
Greenbrier, AR 72058	Fort Smith, AR 72903	<b>Production Run:</b>	<b>Date Collected:</b> 02/19/2024
License: ADH 113	License: 00065C	P20240207GHEE07	<b>Date Received:</b> 02/19/2024
<b>Cultivar (Strain) or Sample Description:</b> ARV-Infused Ghee Butter			<b>Date Completed:</b> 02/20/2024

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

<b>Analysis Date/Time:</b> 02/20/2024 1943 (ICP/OES)	<b>Method:</b> ICP/MS	<b>Deviations from SOP:</b>
<b>Analysis Date/Time:</b> - (DMA)	<b>Instrument:</b> Agilent 7500ce	None
<b>Analyst:</b> KF		

<b>Heavy Metal</b>	<b>Result (µg/kg)</b>	<b>LOD (µg/kg)</b>	<b>LOQ (µg/kg)</b>	<b>Action Level (µg/kg)</b>
Arsenic (As)	-	59.8	94.7	200
Cadmium (Cd)	-	59.8	94.7	200
Lead (Pb)	-	59.8	94.7	500
Mercury (Hg)	-	59.8	94.7	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**

<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: SA37154)**

<b>Testing Location:</b>	<b>Customer ID:</b> 2168	<b>Sample ID:</b> SA37154	<b>Sample Type:</b> Primary
Arkansas	River Valley Relief MIPS	<b>Lot Number:</b>	<b>Matrix:</b> Edible
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13227381597	<b>Mass:</b> 1g
Greenbrier, AR 72058	Fort Smith, AR 72903	<b>Production Run:</b>	<b>Date Collected:</b> 02/19/2024
License: ADA 05_H273	License: 00065C	P20240207GHEE07	<b>Date Received:</b> 02/19/2024
<b>Cultivar (Strain) or Sample Description:</b> ARV-Infused Ghee Butter			<b>Date Completed:</b> 02/20/2024

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

<b>Analysis Date/Time:</b> 02/20/2024 1431	<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	-
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*  
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