

**SUMMARY OF ANALYSIS (SAMPLE ID: SA36827)**

<b>Testing Location:</b>	<b>Customer ID:</b> 2168	<b>Order ID:</b> OR10809	<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	M 00065C 13 22 3752263	<b>Mass:</b> 4g
Greenbrier, AR 72058	Fort Smith, AR 72903	<b>Production Run:</b>	<b>Date Collected:</b> 01/08/2024
License: ADH 113	License: 00065C	P20231228GHEE04	<b>Date Received:</b> 01/08/2024
<b>Cultivar (Strain) or Sample Description:</b> ARV-Infused Ghee Butter			<b>Date Completed:</b> 01/10/2024

\*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.

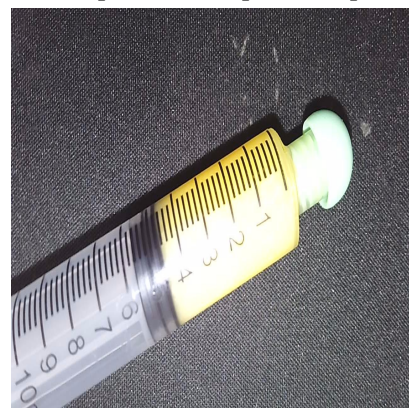
Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

<b>Cannabinoids (Top 3)</b>	<b>(%)</b>	<b>mg/g</b>
Δ9-THC	0.635	6.35
Δ8-THC	0.0681	0.681
CBG	0.0185	0.185
TOTAL CBD	0.0144	0.144
TOTAL THC	0.635	6.35
TOTAL CANNABINOIDS	0.748	7.48

<b>Terpenes (Top 5)</b>	<b>(%)</b>	<b>µg/g</b>
Linalool	0.000160	1.60
α-Bisabolol		
Camphene		
δ-3-Carene		
β-Caryophyllene		
TOTAL TERPENES	0.000160	1.60

<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: SA36827)

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<b>Cultivar (Strain) or Sample Description:</b> ARV-Infused Ghee Butter			<b>Date Completed:</b> 01/10/2024

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

**Analysis Date/Time:** 01/09/2024 1207

**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	0.00227	0.00530	-	-	-
CBCA	ND	ND	0.00705	0.0164	-	-	-
CBD	0.0144	0.144	0.0160	0.0374	-	0.217	13.0
CBDa	ND	ND	0.00589	0.0138	-	-	-
CBDV	ND	ND	0.00257	0.00599	-	-	-
CBDVA	ND	ND	0.00685	0.0160	-	-	-
CBG	0.0185	0.185	0.0104	0.0243	-	0.278	16.7
CBGA	ND	ND	0.0147	0.0174	-	-	-
CBL	ND	ND	0.0120	0.0280	-	-	-
CBN	0.00769	0.0769	0.00551	0.0129	-	0.115	6.92
CBNA	ND	ND	0.00595	0.0139	-	-	-
Δ9-THC	0.635	6.35	0.00661	0.0154	-	9.53	572
Δ8-THC	0.0681	0.681	0.0103	0.0241	-	1.02	61.3
THCA	ND	ND	0.00358	0.00838	-	-	-
THCV	0.00374	0.0374	0.00860	0.0200	-	0.0560	3.36
THCVA	ND	ND	0.00275	0.00639	-	-	-
<b>TOTAL</b>	<b>0.748</b>	<b>7.48</b>			-	<b>11.2</b>	<b>673</b>
<b>TOTAL CBC</b>	-	-			-	-	-
<b>TOTAL CBD</b>	0.0144	0.144			-	0.217	13.0
<b>TOTAL CBDV</b>	-	-			-	-	-
<b>TOTAL CBG</b>	0.0185	0.185			-	0.278	16.7
<b>TOTAL CBN</b>	0.00769	0.0769			-	0.115	6.92
<b>TOTAL THC</b>	0.635	6.35			-	9.53	572
<b>TOTAL THCV</b>	0.00374	0.0374			-	0.0560	3.36



**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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Kyle W. Felling  
Laboratory Director



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<b>Cultivar (Strain) or Sample Description:</b> ARV-Infused Ghee Butter			<b>Date Completed:</b> 01/10/2024

**TERPENOID PROFILE**

**Analysis Date/Time:** 01/09/2024 1519

**Method:** GC/MS

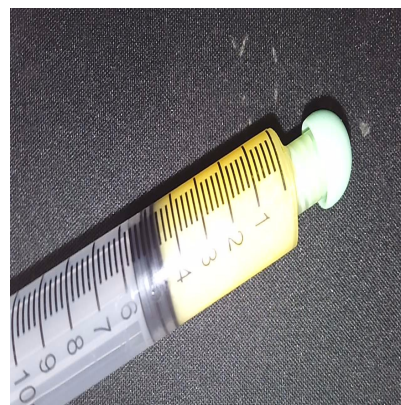
**Deviations from SOP:**

**Analyst:** KF

**Instrument:** Agilent 7890/5975

None

<b>Terpene</b>	<b>Result (µg/g)</b>	<b>Result (%)</b>
α-Bisabolol	<LOQ	-
Camphene	ND	-
δ-3-Carene	ND	-
β-Caryophyllene	<LOQ	-
Caryophyllene oxide	<LOQ	-
p-Cymene	ND	-
Eucalyptol	<LOQ	-
Geraniol	ND	-
Guaiol	<LOQ	-
α-Humulene	<LOQ	-
Isopulegol	ND	-
d-Limonene	ND	-
Linalool	1.60	0.000160
β-Myrcene	ND	-
cis-Nerolidol	<LOQ	-
trans-Nerolidol	<LOQ	-
α-Ocimene	ND	-
β-Ocimene	ND	-
α-Pinene	ND	-
β-Pinene	<LOQ	-
α-Terpinene	ND	-
γ-Terpinene	ND	-
Terpinolene	ND	-
<b>TOTAL</b>	1.60	0.000160



**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): 1.34**

"-" Not detected above LOD.

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<b>Cultivar (Strain) or Sample Description:</b> ARV-Infused Ghee Butter			<b>Date Completed:</b> 01/10/2024

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

<b>Analysis Date/Time:</b> 01/09/2024 1852	<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)	-	132	265	5000	n-Heptane (142-82-5)	-	132	265	5000
Acetonitrile (75-5-8)	-	132	265	410	n-Hexane (110-54-3)	-	46.4	92.7	290
Benzene (71-43-2)	-	1.32	2.65	2	Isobutane (75-28-5)	-	132	265	5000
n-Butane (106-97-2)	-	132	265	5000	Isopropanol (67-63-0)	-	132	265	5000
1-Butanol (71-36-3)	-	132	265	5000	Isopropyl acetate (108-21-4)	-	132	265	5000
2-Butanol (78-92-2)	-	132	265	5000	Isopropyl benzene (98-82-8)	-	13.2	26.5	70
2-Butanone (78-93-3)	-	132	265	5000	Methanol (67-56-1)	-	132	265	3000
Cyclohexane (110-82-7)	-	132	265	3880	2-Methylbutane (78-78-4)	-	132	265	5000
1,2-Dimethoxyethane (110-71-4)	-	13.2	26.5	100	Methylene chloride (75-9-2)	-	132	265	600
N,N-Dimethylacetamide (127-19-5)	-	132	265	1090	2-Methylpentane (107-83-5)	-	46.4	92.7	290
2,2-Dimethylbutane (75-83-2)	-	46.4	92.7	290	3-Methylpentane (96-10-0)	-	46.4	92.7	290
2,3-Dimethylbutane (79-29-8)	-	46.4	92.7	290	n-Pentane (109-66-0)	-	132	265	5000
N,N-Dimethylformamide (68-12-2)	-	132	265	880	1-Pentanol (71-41-0)	-	132	265	5000
Dimethylsulfoxide (67-68-5)	-	132	265	5000	n-Propane (74-98-6)	-	132	265	5000
1,4-Dioxane (123-91-1)	-	132	265	380	1-Propanol (71-23-8)	-	132	265	5000
Ethanol (64-17-5)	-	132	265	5000	Pyridine (110-86-1)	-	46.4	92.7	200
2-Ethoxyethanol (110-80-5)	-	46.4	92.7	160	Tetrahydrofuran (109-99-9)	-	132	265	720
Ethyl ether (60-29-7)	-	132	265	5000	Tetramethylene sulfone (126-33-0)	-	46.4	92.7	160
Ethyl acetate (141-78-6)	-	132	265	5000	Toluene (108-88-3)	-	132	265	890
Ethyl benzene (100-41-4)	-	132	265	2170	o-Xylene (95-47-6)	-	132	265	2170
Ethylene glycol (107-21-1)	-	132	265	620	m,p-Xylene (108-38-3 or 106-42-3)	-	132	265	2170
Ethylene oxide (75-21-8)	-	13.2	26.5	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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**PESTICIDES PROFILE (SOP: SOP-PEST-001)**

**Analysis Date/Time:** 01/09/2024 1251

**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)	-	0.00997	0.0797	0.5	Kresoxim-methyl (143390-89-0)	-	0.00997	0.0797	0.4
Acephate (30560-19-1)	-	0.00997	0.0797	0.4	Malathion (121-75-5)	-	0.00997	0.0797	0.2
Acetamiprid (135410-20-7)	-	0.00997	0.0797	2	Metalaxyl (57837-19-1)	-	0.00997	0.0797	0.2
Aldicarb (116-06-3)	-	0.00997	0.0797	0.4	Methiocarb (2032-65-7)	-	0.00997	0.0797	0.2
Azoxystrobin (131860-33-8)	-	0.00997	0.0797	0.2	Methomyl (16752-77-5)	-	0.00997	0.0797	0.4
Bifenazate (149877-41-8)	-	0.00997	0.0797	0.2	Methyl parathion (298-0-0)	-	0.00997	0.0797	0.2
Bifenthrin (82657-04-3)	-	0.00997	0.0797	0.2	MGK 264 (113-48-4)	-	0.00997	0.0797	0.2
Boscalid (188425-85-6)	-	0.00997	0.0797	0.4	Myclobutanil (88671-89-0)	-	0.00997	0.0797	0.2
Carbaryl (63-25-2)	-	0.00997	0.0797	0.2	Naled (300-76-5)	-	0.00997	0.0797	0.5
Carbofuran (1563-66-2)	-	0.00997	0.0797	0.2	Oxamyl (23135-22-0)	-	0.00997	0.0797	1
Chlorantraniliprole (800008-45-7)	-	0.00997	0.0797	0.2	Paclobutrazol (76738-62-0)	-	0.00997	0.0797	0.4
Chlorfenapyr (122453-73-0)	-	0.00997	0.0797	1	Permethrins (52645-53-1)	-	0.00997	0.0797	0.2
Chlorpyrifos (2921-88-2)	-	0.00997	0.0797	0.2	Phosmet (732-11-6)	-	0.00997	0.0797	0.2
Clofentezine (74115-24-5)	-	0.00997	0.0797	0.2	Piperonyl butoxide (51-03-6)	-	0.00997	0.0797	2
Cyfluthrin (68359-37-5)	-	0.00997	0.0797	1	Prallethrin (2331-36-9)	-	0.00997	0.0797	0.2
Cypermethrin (52315-07-8)	-	0.00997	0.0797	1	Propiconazole (60207-90-1)	-	0.00997	0.0797	0.4
Daminozide (1596-84-5)	-	0.00997	0.0797	1	Propoxur (114-26-1)	-	0.00997	0.0797	0.2
DDVP (62-73-7)	-	0.00997	0.0797	0.1	Pyrethrins (8003-34-7)	-	0.00997	0.0797	1
Diazinon (333-41-5)	-	0.00997	0.0797	0.2	Pyridaben (96489-71-3)	-	0.00997	0.0797	0.2
Dimethoate (60-51-5)	-	0.00997	0.0797	0.2	Spinosad (168316-95-8)	-	0.00997	0.0797	0.2
Ethoprophos (13194-48-4)	-	0.00997	0.0797	0.2	Spiromesifen (283594-90-1)	-	0.00997	0.0797	0.2
Etofenprox (80844-07-1)	-	0.00997	0.0797	0.4	Spirotetramat (203313-25-1)	-	0.00997	0.0797	0.2
Etioazale (153233-91-1)	-	0.00997	0.0797	0.2	Spiroxamine (118134-30-8)	-	0.00997	0.0797	0.4
Fenoxycarb (72490-01-8)	-	0.00997	0.0797	0.2	Tebuconazole (80443-41-0)	-	0.00997	0.0797	0.4
(E)-Fenpyroximate (134098-61-6)	-	0.00997	0.0797	0.4	Thiacloprid (111988-49-9)	-	0.00997	0.0797	0.2
Fipronil (120068-37-3)	-	0.00997	0.0797	0.4	Thiamethoxam (153719-23-4)	-	0.00997	0.0797	0.2
Flonicamid (158062-67-0)	-	0.00997	0.0797	1	Trifloxystrobin (141517-21-7)	-	0.00997	0.0797	0.2
Fludioxinil (131341-86-1)	-	0.00997	0.0797	0.4					
Hexythiazox (78587-05-0)	-	0.00997	0.0797	1					
Imazalil (35554-44-0)	-	0.00997	0.0797	0.2					
Imidacloprid (138261-41-3)	-	0.00997	0.0797	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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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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**CERTIFICATE OF ANALYSIS (SAMPLE ID: SA36827)**

<b>Testing Location:</b>	<b>Customer ID:</b> 2168	<b>Order ID:</b> OR10809	<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	M 00065C 13 22 3752263	<b>Mass:</b> 4g
Greenbrier, AR 72058	Fort Smith, AR 72903	<b>Production Run:</b>	<b>Date Collected:</b> 01/08/2024
License: ADH 113	License: 00065C	P20231228GHEE04	<b>Date Received:</b> 01/08/2024
<b>Cultivar (Strain) or Sample Description:</b> ARV-Infused Ghee Butter			<b>Date Completed:</b> 01/10/2024

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

<b>Analysis Date/Time:</b> 01/09/2024 1636 (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)	-	58.5	92.6	200
Cadmium (Cd)	-	58.5	92.6	200
Lead (Pb)	-	58.5	92.6	500
Mercury (Hg)	-	58.5	92.6	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: SA36827)**

<b>Testing Location:</b>	<b>Customer ID:</b> 2168	<b>Sample ID:</b> SA36827	<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	M 00065C 13 22 3752263	<b>Mass:</b> 4g
Greenbrier, AR 72058	Fort Smith, AR 72903	<b>Production Run:</b>	<b>Date Collected:</b> 01/08/2024
License: ADA 05_H273	License: 00065C	P20231228GHEE04	<b>Date Received:</b> 01/08/2024
<b>Cultivar (Strain) or Sample Description:</b> ARV-Infused Ghee Butter			<b>Date Completed:</b> 01/10/2024

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

<b>Analysis Date/Time:</b> 01/10/2024 1027	<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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