F.A.S.T. LABORATORIES/RESEARCH

ACCREDITED CERTIFICATE #4473.01

ASA PFC Laboratory

Analyzed on behalf of:

RVR RIVER VALLEY RELIEF

SUMMARY OF ANALYSIS (SAMPLE ID: SA37000)

Testing Location:	**Customer ID:** 2168	**Order ID:** OR10849	**Sample Type:** Primary
Arkansas	River Valley Relief MIPS	**Lot Number:**	**Matrix:** Edible
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13224160393	**Mass:** 1g
Greenbrier, AR 72058	Fort Smith, AR 72903	**Production Run:**	**Date Collected:** 02/05/2024
License: ADH 113	License: 00065C	P20240118GHEE06	**Date Received:** 02/05/2024
Cultivar (Strain) or Sample Description: ARV-Infused Ghee Butter			**Date Completed:** 02/07/2024

*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 (%)	Water Activity (aw)	PASS/FAIL
Not Tested	Not Tested	PASS

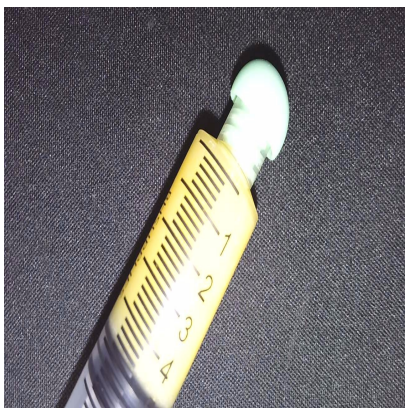
Moisture content/water activity action levels are referenced from the State of Arkansas MMJ testing guidelines.
Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

Cannabinoids (Top 3)	(%)	mg/g
Δ9-THC	0.650	6.50
Δ8-THC	0.0469	0.469
CBG	0.0181	0.181
TOTAL CBD	0.0127	0.127
TOTAL THC	0.650	6.50
TOTAL CANNABINOIDS	0.740	7.40

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

Contaminants	PASS/FAIL
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, Ph.D.
Laboratory Director

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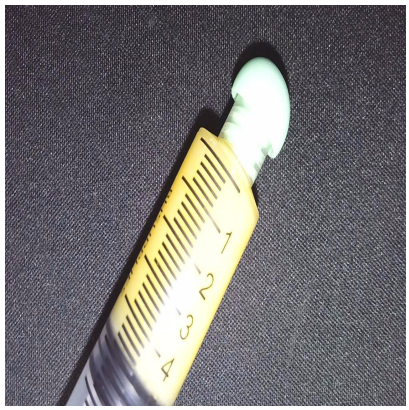
Cultivar (Strain) or Sample Description: ARV-Infused Ghee Butter — **Date Completed:** 02/07/2024

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

Analysis Date/Time: 02/06/2024 1602
Analyst: PW
Method: HPLC/DAD
Instrument: Agilent 1100
Moisture Content (%): -
Water Activity (aw): -

Cannabinoid	Result (%)	Result (mg/g)	LOD (mg/g)	LOQ (mg/g)	Result (mg/mL)	Per Serving (mg)	Per Unit (mg)
CBC	ND	ND	0.00224	0.00522	-	-	-
CBCA	ND	ND	0.00695	0.0162	-	-	-
CBD	0.0127	0.127	0.0158	0.0369	-	0.191	11.4
CBDA	ND	ND	0.00581	0.0136	-	-	-
CBDV	ND	ND	0.00253	0.00591	-	-	-
CBDVA	ND	ND	0.00676	0.0158	-	-	-
CBG	0.0181	0.181	0.0103	0.0239	-	0.272	16.3
CBGA	ND	ND	0.0145	0.0171	-	-	-
CBL	ND	ND	0.0118	0.0276	-	-	-
CBN	0.00699	0.0699	0.00544	0.0127	-	0.105	6.29
CBNA	ND	ND	0.00587	0.0137	-	-	-
Δ9-THC	0.650	6.50	0.00652	0.0152	-	9.75	585
Δ8-THC	0.0469	0.469	0.0102	0.0237	-	0.704	42.2
THCA	ND	ND	0.00353	0.00827	-	-	-
THCV	0.00527	0.0527	0.00848	0.0198	-	0.0790	4.74
THCVA	ND	ND	0.00271	0.00630	-	-	-
TOTAL	0.740	7.40			-	11.1	666
TOTAL CBC	-	-			-	-	-
TOTAL CBD	0.0127	0.127			-	0.191	11.4
TOTAL CBDV	-	-			-	-	-
TOTAL CBG	0.0181	0.181			-	0.272	16.3
TOTAL CBN	0.00699	0.0699			-	0.105	6.29
TOTAL THC	0.650	6.50			-	9.75	585
TOTAL THCV	0.00527	0.0527			-	0.0790	4.74



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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Laboratory Director

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CERTIFICATE OF ANALYSIS (SAMPLE ID: SA37000)

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License: ADH 113	License: 00065C	P20240118GHEE06	**Date Received:** 02/05/2024

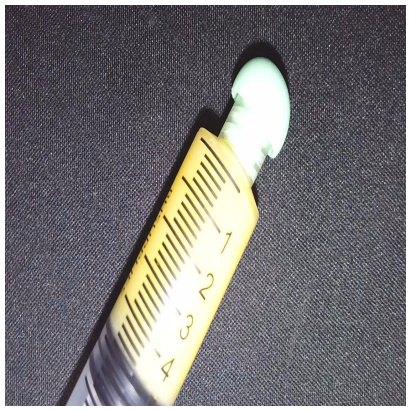
Cultivar (Strain) or Sample Description: ARV-Infused Ghee Butter — **Date Completed:** 02/07/2024

TERPENOID PROFILE

Analysis Date/Time:02/06/2024 0430 — **Method:** GC/MS — **Deviations from SOP:**

Analyst: KF — **Instrument:** Agilent 7890/5975 — None

Terpene	Result (µg/g)	Result (%)
α-Bisabolol	ND	-
Camphene	ND	-
δ-3-Carene	ND	-
β-Caryophyllene	ND	-
Caryophyllene oxide	ND	-
p-Cymene	ND	-
Eucalyptol	ND	-
Geraniol	ND	-
Guaiol	ND	-
α-Humulene	ND	-
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	-
TOTAL	0.000	0.000



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): 1.70

"-" Not detected above LOD.

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License: ADH 113	License: 00065C	P20240118GHEE06	**Date Received:** 02/05/2024

Cultivar (Strain) or Sample Description: ARV-Infused Ghee Butter — **Date Completed:** 02/07/2024

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

Analysis Date/Time: 02/05/2024 2338 — **Method:** HS/GC/MS — **Deviations from SOP:**

Analyst: KF — **Instrument:** Agilent 7890/5975 — None

Solvent	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)
Acetone (67-64-1)	-	123	247	5000
Acetonitrile (75-5-8)	-	123	247	410
Benzene (71-43-2)	-	1.23	2.47	2
n-Butane (106-97-2)	-	123	247	5000
1-Butanol (71-36-3)	-	123	247	5000
2-Butanol (78-92-2)	-	123	247	5000
2-Butanone (78-93-3)	-	123	247	5000
Cyclohexane (110-82-7)	-	123	247	3880
1,2-Dimethoxyethane (110-71-4)	-	12.3	24.7	100
N,N-Dimethylacetamide (127-19-5)	-	123	247	1090
2,2-Dimethylbutane (75-83-2)	-	43.1	86.3	290
2,3-Dimethylbutane (79-29-8)	-	43.1	86.3	290
N,N-Dimethylformamide (68-12-2)	-	123	247	880
Dimethylsulfoxide (67-68-5)	-	123	247	5000
1,4-Dioxane (123-91-1)	-	123	247	380
Ethanol (64-17-5)	-	123	247	5000
2-Ethoxyethanol (110-80-5)	-	43.1	86.3	160
Ethyl ether (60-29-7)	-	123	247	5000
Ethyl acetate (141-78-6)	-	123	247	5000
Ethyl benzene (100-41-4)	-	123	247	2170
Ethylene glycol (107-21-1)	-	123	247	620
Ethylene oxide (75-21-8)	-	12.3	24.7	50

Solvent	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)
n-Heptane (142-82-5)	-	123	247	5000
n-Hexane (110-54-3)	-	43.1	86.3	290
Isobutane (75-28-5)	-	123	247	5000
Isopropanol (67-63-0)	-	123	247	5000
Isopropyl acetate (108-21-4)	-	123	247	5000
Isopropyl benzene (98-82-8)	-	12.3	24.7	70
Methanol (67-56-1)	-	123	247	3000
2-Methylbutane (78-78-4)	-	123	247	5000
Methylene chloride (75-9-2)	-	123	247	600
2-Methylpentane (107-83-5)	-	43.1	86.3	290
3-Methylpentane (96-10-0)	-	43.1	86.3	290
n-Pentane (109-66-0)	-	123	247	5000
1-Pentanol (71-41-0)	-	123	247	5000
n-Propane (74-98-6)	-	123	247	5000
1-Propanol (71-23-8)	-	123	247	5000
Pyridine (110-86-1)	-	43.1	86.3	200
Tetrahydrofuran (109-99-9)	-	123	247	720
Tetramethylene sulfone (126-33-0)	-	43.1	86.3	160
Toluene (108-88-3)	-	123	247	890
o-Xylene (95-47-6)	-	123	247	2170
m,p-Xylene (108-38-3 or 106-42-3)	-	123	247	2170
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.

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
Dimethysufoxide	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:** 02/07/2024

PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 02/06/2024 1626 — **Method:** LC/MS/MS — **Deviations from SOP:**

Analyst: KF — **Instrument:** Shimadzu LC-8050 — None

Pesticide	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)
Abamectin (71751-41-2)	-	0.00978	0.0783	0.5
Acephate (30560-19-1)	-	0.00978	0.0783	0.4
Acequinocyl (57960-19-7)	-	0.00978	0.0783	2
Acetamiprid (135410-20-7)	-	0.00978	0.0783	0.2
Aldicarb (116-06-3)	-	0.00978	0.0783	0.4
Azoxystrobin (131860-33-8)	-	0.00978	0.0783	0.2
Bifenazate (149877-41-8)	-	0.00978	0.0783	0.2
Bifenthrin (82657-04-3)	-	0.00978	0.0783	0.2
Boscalid (188425-85-6)	-	0.00978	0.0783	0.4
Carbaryl (63-25-2)	-	0.00978	0.0783	0.2
Carbofuran (1563-66-2)	-	0.00978	0.0783	0.2
Chlorantraniliprole (800008-45-7)	-	0.00978	0.0783	0.2
Chlorfenapyr (122453-73-0)	-	0.00978	0.0783	1
Chlorpyrifos (2921-88-2)	-	0.00978	0.0783	0.2
Clofentezine (74115-24-5)	-	0.00978	0.0783	0.2
Cyfluthrin (68359-37-5)	-	0.00978	0.0783	1
Cypermethrin (52315-07-8)	-	0.00978	0.0783	1
Daminozide (1596-84-5)	-	0.00978	0.0783	1
DDVP (62-73-7)	-	0.00978	0.0783	0.1
Diazinon (333-41-5)	-	0.00978	0.0783	0.2
Dimethoate (60-51-5)	-	0.00978	0.0783	0.2
Ethoprophos (13194-48-4)	-	0.00978	0.0783	0.2
Etofenprox (80844-07-1)	-	0.00978	0.0783	0.4
Etoxazole (153233-91-1)	-	0.00978	0.0783	0.2
Fenoxycarb (72490-01-8)	-	0.00978	0.0783	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.00978	0.0783	0.4
Fipronil (120068-37-3)	-	0.00978	0.0783	0.4
Flonicamid (158062-67-0)	-	0.00978	0.0783	1
Fludioxinil (131341-86-1)	-	0.00978	0.0783	0.4
Hexythiazox (78587-05-0)	-	0.00978	0.0783	1
Imazalil (35554-44-0)	-	0.00978	0.0783	0.2
Imidacloprid (138261-41-3)	-	0.00978	0.0783	0.4
Kresoxim-methyl (143390-89-0)	-	0.00978	0.0783	0.4
Malathion (121-75-5)	-	0.00978	0.0783	0.2
Metalaxyl (57837-19-1)	-	0.00978	0.0783	0.2
Methiocarb (2032-65-7)	-	0.00978	0.0783	0.2
Methomyl (16752-77-5)	-	0.00978	0.0783	0.4
Methyl parathion (298-0-0)	-	0.00978	0.0783	0.2
MGK 264 (113-48-4)	-	0.00978	0.0783	0.2
Myclobutanil (88671-89-0)	-	0.00978	0.0783	0.2
Naled (300-76-5)	-	0.00978	0.0783	0.5
Oxamyl (23135-22-0)	-	0.00978	0.0783	1
Paclobutrazol (76738-62-0)	-	0.00978	0.0783	0.4
Permethrins (52645-53-1)	-	0.00978	0.0783	0.2
Phosmet (732-11-6)	-	0.00978	0.0783	0.2
Piperonyl butoxide (51-03-6)	-	0.00978	0.0783	2
Prallethrins (2331-36-9)	-	0.00978	0.0783	0.2
Propiconazole (60207-90-1))	-	0.00978	0.0783	0.4
Propoxur (114-26-1)	-	0.00978	0.0783	0.2
Pyrethrins (8003-34-7)	-	0.00978	0.0783	1
Pyridaben (96489-71-3)	-	0.00978	0.0783	0.2
Spinosad (168316-95-8)	-	0.00978	0.0783	0.2
Spiromesifen (283594-90-1)	-	0.00978	0.0783	0.2
Spirotetramat (203313-25-1)	-	0.00978	0.0783	0.2
Spiroxamine (118134-30-8)	-	0.00978	0.0783	0.4
Tebuconazole (80443-41-0)	-	0.00978	0.0783	0.4
Thiacloprid (111988-49-9)	-	0.00978	0.0783	0.2
Thiamethoxam (153719-23-4)	-	0.00978	0.0783	0.2
Trifloxystrobin (141517-21-7)	-	0.00978	0.0783	0.2

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.

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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		

Kyle W. Felling, Ph.D.
Laboratory Director

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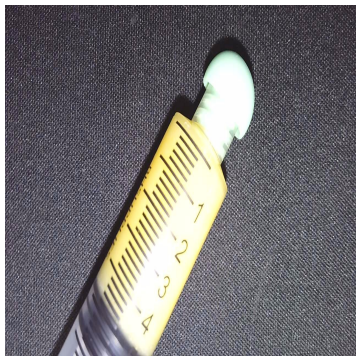
HEAVY METAL PROFILE (SOP: SOP-ICP-200.6)

Analysis Date/Time: 02/06/2024 1903 (ICP/OES)
Analysis Date/Time: - (DMA)
Analyst: KF

Method: ICP/MS
Instrument: Agilent 7500ce

Deviations from SOP:
None

Heavy Metal	Result (µg/kg)	LOD (µg/kg)	LOQ (µg/kg)	Action Level (µg/kg)
Arsenic (As)	-	59.4	94.1	200
Cadmium (Cd)	-	59.4	94.1	200
Lead (Pb)	-	59.4	94.1	500
Mercury (Hg)	-	59.4	94.1	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.

Disclaimer: This information is provided as a service and makes no claims of efficacy and/or safety of this product. Results are applicable only for the sample(s) analyzed and for the specific analysis conducted. This report is for informational purposes only and should not be used to diagnose, treat, or prevent any medical-related symptoms. The statements and results herein have not been approved and/or endorsed by the FDA.

Kyle W. Felling, Ph.D.
Laboratory Director

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F.A.S.T. LABORATORIES/RESEARCH

ACCREDITED CERTIFICATE #4473.01

ASA PFC Laboratory

Analyzed on behalf of:

RVR RIVER VALLEY RELIEF

CERTIFICATE OF ANALYSIS (SAMPLE ID: SA37000)

Testing Location:	**Customer ID:** 2168	**Sample ID:** SA37000	**Sample Type:** Primary
Arkansas	River Valley Relief MIPS	**Lot Number:**	**Matrix:** Edible
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13224160393	**Mass:** 1g
Greenbrier, AR 72058	Fort Smith, AR 72903	**Production Run:**	**Date Collected:** 02/05/2024
License: ADA 05_H273	License: 00065C	P20240118GHEE06	**Date Received:** 02/05/2024
Cultivar (Strain) or Sample Description: ARV-Infused Ghee Butter			**Date Completed:** 02/07/2024

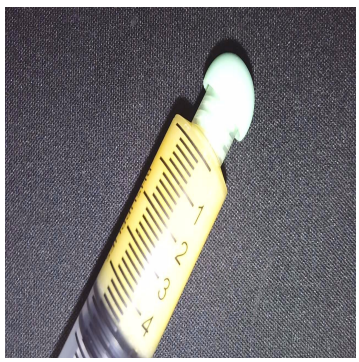
MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 02/06/2024 1537
Analyst: PW

Method: Hardy Diagnostics CompactDry
Instrument: Thermo Incubator

Deviations from SOP:
None

Bacteria/Microbe	Result (CFU/g)	Action Level (CFU/g)
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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