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: SA35601)

Testing Location:	**Customer ID:** 2168	**Order ID:** OR10526	**Sample Type:** Primary
Arkansas	River Valley Relief MIPS	**Lot Number:**	**Matrix:** Edible
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M 00065C 13 22 8897405	**Mass:** 10pieces
Greenbrier, AR 72058	Fort Smith, AR 72903	**Production Run:**	**Date Collected:** 07/10/2023
License: ADH 113	License: 00065C	P20230706MAN012	**Date Received:** 07/10/2023

Cultivar (Strain) or Sample Description: AR-Wana Gummies Mango Sativa 100mg 10pk **Date Completed:** 07/11/2023

*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

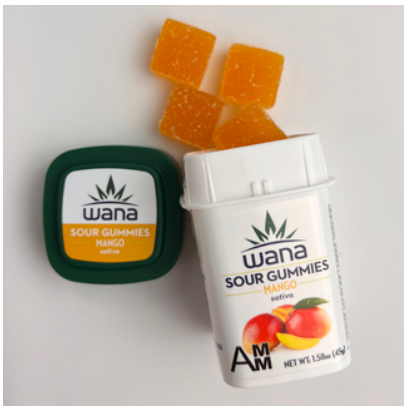
Moisture content/water activity action levels are referenced from the State of Arkansas MMJ testing guidelines.
Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

Cannabinoids (Top 3)	(%)	mg/g
Δ9-THC	0.195	1.95
CBL	0.0748	0.748
CBG	0.00658	0.0658
TOTAL CBD	-	-
TOTAL THC	0.195	1.95
TOTAL CANNABINOIDS	0.277	2.77

Terpenes (Top 5)	(%)	µg/g
Guaiol	0.00736	73.6
α-Bisabolol	0.00404	40.4
trans-Nerolidol	0.00381	38.1
cis-Nerolidol	0.00219	21.9
Geraniol	0.00163	16.3
TOTAL TERPENES	0.0228	228

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

REPORT OF LABORATORY ANALYSIS

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License: ADH 113	License: 00065C	P20230706MAN012	**Date Received:** 07/10/2023

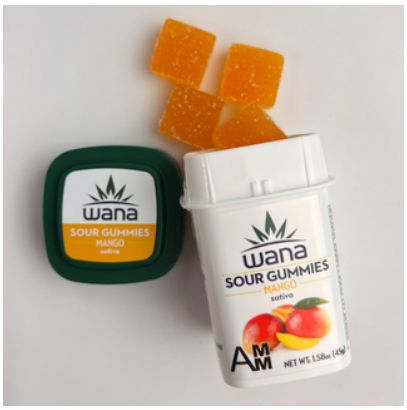
Cultivar (Strain) or Sample Description: AR-Wana Gummies Mango Sativa 100mg 10pk **Date Completed:** 07/11/2023

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

Analysis Date/Time: 07/11/2023 1141 **Method:** HPLC/DAD **Moisture Content (%):** -

Analyst: PW **Instrument:** Agilent 1100 **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	0.00215	0.00501	-	-	-
CBCA	ND	ND	0.00666	0.0155	-	-	-
CBD	ND	ND	0.0151	0.0353	-	-	-
CBDA	ND	ND	0.00557	0.0130	-	-	-
CBDV	ND	ND	0.00243	0.00566	-	-	-
CBDVA	ND	ND	0.00647	0.0151	-	-	-
CBG	0.00658	0.0658	0.00982	0.0229	-	0.312	3.12
CBGA	ND	ND	0.0139	0.0164	-	-	-
CBL	0.0748	0.748	0.0113	0.0265	-	3.54	35.4
CBN	ND	ND	0.00521	0.0122	-	-	-
CBNA	ND	ND	0.00563	0.0131	-	-	-
Δ9-THC	0.195	1.95	0.00625	0.0146	-	9.24	92.4
Δ8-THC	ND	ND	0.00975	0.0228	-	-	-
THCA	ND	ND	0.00339	0.00792	-	-	-
THCV	ND	ND	0.00813	0.0190	-	-	-
THCVA	ND	ND	0.00260	0.00604	-	-	-
TOTAL	0.277	2.77			-	13.1	131
TOTAL CBC	-	-			-	-	-
TOTAL CBD	-	-			-	-	-
TOTAL CBDV	-	-			-	-	-
TOTAL CBG	0.00658	0.0658			-	0.312	3.12
TOTAL CBN	-	-			-	-	-
TOTAL THC	0.195	1.95			-	9.24	92.4
TOTAL THCV	-	-			-	-	-



SERVING MASS (g): 4.73
SERVINGS/UNIT: 10

"-" 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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License: ADH 113	License: 00065C	P20230706MAN012	**Date Received:** 07/10/2023

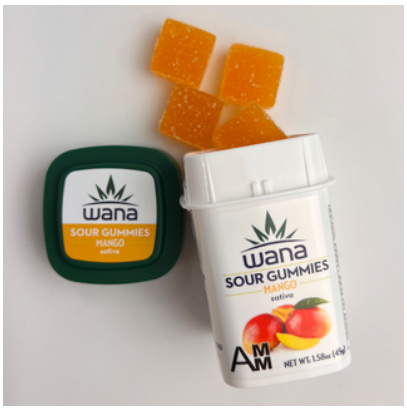
Cultivar (Strain) or Sample Description: AR-Wana Gummies Mango Sativa 100mg 10pk **Date Completed:** 07/11/2023

TERPENOID PROFILE

Analysis Date/Time:07/11/2023 1204 **Method:** GC/MS **Deviations from SOP:**

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

Terpene	Result (µg/g)	Result (%)
α-Bisabolol	40.4	0.00404
Camphene	-	-
δ-3-Carene	-	-
β-Caryophyllene	4.69	0.000469
Caryophyllene oxide	15.9	0.00159
p-Cymene	-	-
Eucalyptol	-	-
Geraniol	16.3	0.00163
Guaiol	73.6	0.00736
α-Humulene	4.47	0.000447
Isopulegol	4.15	0.000415
d-Limonene	4.47	0.000447
Linalool	4.15	0.000415
β-Myrcene	-	-
cis-Nerolidol	21.9	0.00219
trans-Nerolidol	38.1	0.00381
α-Ocimene	-	-
β-Ocimene	-	-
α-Pinene	-	-
β-Pinene	-	-
α-Terpinene	-	-
γ-Terpinene	-	-
Terpinolene	-	-
TOTAL	228	0.0228



Abbreviations: GC - Gas Chromatography, MS - Mass Spectrometry, RL - Reporting Limit

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"-" Not detected above RL.

Reporting Limit (µg/g): 106

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Cultivar (Strain) or Sample Description: AR-Wana Gummies Mango Sativa 100mg 10pk **Date Completed:** 07/11/2023

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

Analysis Date/Time: 07/11/2023 1544 **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)	-	105	211	5000
Acetonitrile (75-5-8)	-	105	211	410
Benzene (71-43-2)	-	1.05	2.11	2
n-Butane (106-97-2)	-	105	211	5000
1-Butanol (71-36-3)	-	105	211	5000
2-Butanol (78-92-2)	-	105	211	5000
2-Butanone (78-93-3)	-	105	211	5000
Cyclohexane (110-82-7)	-	105	211	3880
1,2-Dimethoxyethane (110-71-4)	-	10.5	21.1	100
N,N-Dimethylacetamide (127-19-5)	-	105	211	1090
2,2-Dimethylbutane (75-83-2)	-	36.9	73.8	290
2,3-Dimethylbutane (79-29-8)	-	36.9	73.8	290
N,N-Dimethylformamide (68-12-2)	-	105	211	880
Dimethylsulfoxide (67-68-5)	-	105	211	5000
1,4-Dioxane (123-91-1)	-	105	211	380
Ethanol (64-17-5)	-	105	211	5000
2-Ethoxyethanol (110-80-5)	-	36.9	73.8	160
Ethyl ether (60-29-7)	-	105	211	5000
Ethyl acetate (141-78-6)	-	105	211	5000
Ethyl benzene (100-41-4)	-	105	211	2170
Ethylene glycol (107-21-1)	-	105	211	620
Ethylene oxide (75-21-8)	-	10.5	21.1	50

Solvent	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)
n-Heptane (142-82-5)	-	105	211	5000
n-Hexane (110-54-3)	-	36.9	73.8	290
Isobutane (75-28-5)	-	105	211	5000
Isopropanol (67-63-0)	-	105	211	5000
Isopropyl acetate (108-21-4)	-	105	211	5000
Isopropyl benzene (98-82-8)	-	10.5	21.1	70
Methanol (67-56-1)	-	105	211	3000
2-Methylbutane (78-78-4)	-	105	211	5000
Methylene chloride (75-9-2)	-	105	211	600
2-Methylpentane (107-83-5)	-	36.9	73.8	290
3-Methylpentane (96-10-0)	-	36.9	73.8	290
n-Pentane (109-66-0)	-	105	211	5000
1-Pentanol (71-41-0)	-	105	211	5000
n-Propane (74-98-6)	-	105	211	5000
1-Propanol (71-23-8)	-	105	211	5000
Pyridine (110-86-1)	-	36.9	73.8	200
Tetrahydrofuran (109-99-9)	-	105	211	720
Tetramethylene sulfone (126-33-0)	-	36.9	73.8	160
Toluene (108-88-3)	-	105	211	890
o-Xylene (95-47-6)	-	105	211	2170
m,p-Xylene (108-38-3 or 106-42-3)	-	105	211	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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PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 07/11/2023 1254 **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)	-	0.00942	0.0754	0.5
Acephate (30560-19-1)	-	0.00942	0.0754	0.4
Acequinocyl (57960-19-7)	-	0.00942	0.0754	2
Acetamiprid (135410-20-7)	-	0.00942	0.0754	0.2
Aldicarb (116-06-3)	-	0.00942	0.0754	0.4
Azoxystrobin (131860-33-8)	-	0.00942	0.0754	0.2
Bifenazate (149877-41-8)	-	0.00942	0.0754	0.2
Bifenthrin (82657-04-3)	-	0.00942	0.0754	0.2
Boscalid (188425-85-6)	-	0.00942	0.0754	0.4
Carbaryl (63-25-2)	-	0.00942	0.0754	0.2
Carbofuran (1563-66-2)	-	0.00942	0.0754	0.2
Chlorantraniliprole (800008-45-7)	-	0.00942	0.0754	0.2
Chlorfenapyr (122453-73-0)	-	0.00942	0.0754	1
Chlorpyrifos (2921-88-2)	-	0.00942	0.0754	0.2
Clofentezine (74115-24-5)	-	0.00942	0.0754	0.2
Cyfluthrin (68359-37-5)	-	0.00942	0.0754	1
Cypermethrin (52315-07-8)	-	0.00942	0.0754	1
Daminozide (1596-84-5)	-	0.00942	0.0754	1
DDVP (62-73-7)	-	0.00942	0.0754	0.1
Diazinon (333-41-5)	-	0.00942	0.0754	0.2
Dimethoate (60-51-5)	-	0.00942	0.0754	0.2
Ethoprophos (13194-48-4)	-	0.00942	0.0754	0.2
Etofenprox (80844-07-1)	-	0.00942	0.0754	0.4
Etoxazole (153233-91-1)	-	0.00942	0.0754	0.2
Fenoxycarb (72490-01-8)	-	0.00942	0.0754	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.00942	0.0754	0.4
Fipronil (120068-37-3)	-	0.00942	0.0754	0.4
Flonicamid (158062-67-0)	-	0.00942	0.0754	1
Fludioxinil (131341-86-1)	-	0.00942	0.0754	0.4
Hexythiazox (78587-05-0)	-	0.00942	0.0754	1
Imazalil (35554-44-0)	-	0.00942	0.0754	0.2
Imidacloprid (138261-41-3)	-	0.00942	0.0754	0.4

Pesticide	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)
Kresoxim-methyl (143390-89-0)	-	0.00942	0.0754	0.4
Malathion (121-75-5)	-	0.00942	0.0754	0.2
Metalaxyl (57837-19-1)	-	0.00942	0.0754	0.2
Methiocarb (2032-65-7)	-	0.00942	0.0754	0.2
Methomyl (16752-77-5)	-	0.00942	0.0754	0.4
Methyl parathion (298-0-0)	-	0.00942	0.0754	0.2
MGK 264 (113-48-4)	-	0.00942	0.0754	0.2
Myclobutanil (88671-89-0)	-	0.00942	0.0754	0.2
Naled (300-76-5)	-	0.00942	0.0754	0.5
Oxamyl (23135-22-0)	-	0.00942	0.0754	1
Paclobutrazol (76738-62-0)	-	0.00942	0.0754	0.4
Permethrins (52645-53-1)	-	0.00942	0.0754	0.2
Phosmet (732-11-6)	-	0.00942	0.0754	0.2
Piperonyl butoxide (51-03-6)	-	0.00942	0.0754	2
Prallethrins (2331-36-9)	-	0.00942	0.0754	0.2
Propiconazole (60207-90-1))	-	0.00942	0.0754	0.4
Propoxur (114-26-1)	-	0.00942	0.0754	0.2
Pyrethrins (8003-34-7)	-	0.00942	0.0754	1
Pyridaben (96489-71-3)	-	0.00942	0.0754	0.2
Spinosad (168316-95-8)	-	0.00942	0.0754	0.2
Spiromesifen (283594-90-1)	-	0.00942	0.0754	0.2
Spirotetramat (203313-25-1)	-	0.00942	0.0754	0.2
Spiroxamine (118134-30-8)	-	0.00942	0.0754	0.4
Tebuconazole (80443-41-0)	-	0.00942	0.0754	0.4
Thiacloprid (111988-49-9)	-	0.00942	0.0754	0.2
Thiamethoxam (153719-23-4)	-	0.00942	0.0754	0.2
Trifloxystrobin (141517-21-7)	-	0.00942	0.0754	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.

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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		

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Arkansas	River Valley Relief MIPS	**Lot Number:**	**Matrix:** Edible
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M 00065C 13 22 8897405	**Mass:** 10pieces
Greenbrier, AR 72058	Fort Smith, AR 72903	**Production Run:**	**Date Collected:** 07/10/2023
License: ADH 113	License: 00065C	P20230706MAN012	**Date Received:** 07/10/2023

Cultivar (Strain) or Sample Description: AR-Wana Gummies Mango Sativa 100mg 10pk **Date Completed:** 07/11/2023

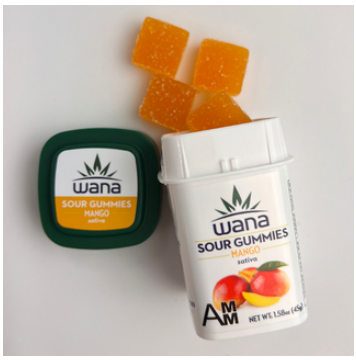
HEAVY METAL PROFILE (SOP: SOP-ICP-200.6)

Analysis Date/Time: 07/11/2023 1229 (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)	-	59.0	93.4	200
Cadmium (Cd)	-	59.0	93.4	200
Lead (Pb)	-	59.0	93.4	500
Mercury (Hg)	-	59.0	93.4	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

www.FASTLaboratories.com

F.A.S.T. LABORATORIES/RESEARCH

ACCREDITED CERTIFICATE #4473.01

Analyzed on behalf of:

CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35601)

Testing Location:	**Customer ID:** 2168	**Sample ID:** SA35601	**Sample Type:** Primary
Arkansas	River Valley Relief MIPS	**Lot Number:**	**Matrix:** Edible
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M 00065C 13 22 8897405	**Mass:** 10pieces
Greenbrier, AR 72058	Fort Smith, AR 72903	**Production Run:**	**Date Collected:** 07/10/2023
License: ADA 05_H273	License: 00065C	P20230706MAN012	**Date Received:** 07/10/2023
Cultivar (Strain) or Sample Description: AR-Wana Gummies Mango Sativa 100mg 10pk			**Date Completed:** 07/11/2023

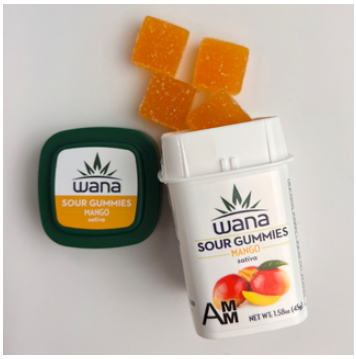
MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 07/11/2023 1126
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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