

**SUMMARY OF ANALYSIS (SAMPLE ID: SA41453)**

<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> OR11657 <b>Lot Number:</b> M00065C13226611796 <b>Production Run:</b> P20250617MAN10	<b>Sample Type:</b> Primary <b>Matrix:</b> Edible <b>Mass:</b> 1ea <b>Date Collected:</b> 06/19/2025 <b>Date Received:</b> 06/19/2025
<b>Cultivar (Strain) or Sample Description:</b> AR-Wana Gummies Mango Sativa 100mg 10pk			<b>Date Completed:</b> 06/23/2025

\*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.

\*Where provided, statements of conformity (e.g. Pass/Fail) are made in accordance with ILAC G8, Binary Statement for Simple Acceptance Rule (w=0, AL=TL). PASS: when the result is within the acceptance interval. FAIL: when the result is outside the acceptance interval

**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	0.194	1.94
CBN	0.00425	0.0425
CBD	0.000	0.000
TOTAL CBD	0.000	0.000
TOTAL THC	0.194	1.94
TOTAL CANNABINOIDS	0.198	1.98

<b>Terpenes (Top 5)</b>	<b>(%)</b>	<b>ppm</b>
β-Caryophyllene	0.0481	481
trans-Nerolidol	0.00112	11.2
α-Pinene	0.000931	9.31
d-Limonene	0.000820	8.20
α-Bisabolol		
TOTAL TERPENES	0.0509	509

<b>Contaminants</b>	<b>PASS/FAIL</b>
Heavy Metals:	PASS
Microbiology:	PASS
Pesticides:	PASS
Residual Solvents:	PASS



Scan the QR code to verify results.

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F.A.S.T. Personnel perform sampling following the Sampling SOP (SOP-02).

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



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**Cultivar (Strain) or Sample Description:** AR-Wana Gummies Mango Sativa 100mg 10pk **Date Completed:** 06/23/2025

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

**Analysis Date/Time:** 06/20/2025 1455  
**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	ND	ND	0.00210	0.00489	-	0.000	0.000
CBCA	ND	ND	0.00651	0.0152	-	0.000	0.000
CBD	ND	ND	0.0148	0.0345	-	0.000	0.000
CBDA	ND	ND	0.00545	0.0127	-	0.000	0.000
CBDV	ND	ND	0.00237	0.00554	-	0.000	0.000
CBDVA	ND	ND	0.00633	0.0148	-	0.000	0.000
CBG	DET	DET	0.00960	0.0224	-	0.000	0.000
CBGA	ND	ND	0.0136	0.0161	-	0.000	0.000
CBL	ND	ND	0.0111	0.0259	-	0.000	0.000
CBN	0.00425	0.0425	0.00510	0.0119	-	0.203	2.03
CBNA	ND	ND	0.00550	0.0128	-	0.000	0.000
Δ9-THC	0.194	1.94	0.00611	0.0142	-	9.27	92.7
Δ8-THC	ND	ND	0.00953	0.0222	-	0.000	0.000
THCA	ND	ND	0.00331	0.00774	-	0.000	0.000
THCV	ND	ND	0.00795	0.0185	-	0.000	0.000
THCVA	ND	ND	0.00254	0.00591	-	0.000	0.000
<b>TOTAL</b>	<b>0.198</b>	<b>1.98</b>				<b>9.46</b>	<b>94.6</b>
<b>TOTAL CBC</b>	<b>0.000</b>	<b>0.000</b>				<b>0.000</b>	<b>0.000</b>
<b>TOTAL CBD</b>	<b>0.000</b>	<b>0.000</b>				<b>0.000</b>	<b>0.000</b>
<b>TOTAL CBDV</b>	<b>0.000</b>	<b>0.000</b>				<b>0.000</b>	<b>0.000</b>
<b>TOTAL CBG</b>	<b>0.000</b>	<b>0.000</b>				<b>0.000</b>	<b>0.000</b>
<b>TOTAL CBN</b>	<b>0.00425</b>	<b>0.0425</b>				<b>0.203</b>	<b>2.03</b>
<b>TOTAL THC</b>	<b>0.194</b>	<b>1.94</b>				<b>9.27</b>	<b>92.7</b>
<b>TOTAL THC V</b>	<b>0.000</b>	<b>0.000</b>				<b>0.000</b>	<b>0.000</b>



**SERVING MASS (g):** 4.78  
**SERVINGS/UNIT:** 10

"-" Not reported for this sample.

*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.  
Dry percent = Wet percent / (1 - (Moisture Content / 100))

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 THC V = (THCVA x 0.867) + THC V

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, ND - Not Detected (less than LOD)

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



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**Cultivar (Strain) or Sample Description:** AR-Wana Gummies Mango Sativa 100mg 10pk **Date Completed:** 06/23/2025

**TERPENOID PROFILE**

**Analysis Date/Time:** 06/20/2025 1541  
**Analyst:** KF

**Method:** GC/MS  
**Instrument:** Agilent 7890/5975

**Deviations from SOP:**  
None

<u>Terpene</u>	<u>Result (ppm)</u>	<u>Result (%)</u>
α-Bisabolol	<LOQ	-
Camphene	ND	-
δ-3-Carene	ND	-
β-Caryophyllene	481	0.0481
Caryophyllene oxide	ND	-
p-Cymene	ND	-
Eucalyptol	<LOQ	-
Geraniol	ND	-
Guaiol	ND	-
α-Humulene	ND	-
Isopulegol	ND	-
d-Limonene	8.20	0.000820
Linalool	<LOQ	-
β-Myrcene	ND	-
cis-Nerolidol	ND	-
trans-Nerolidol	11.2	0.00112
α-Ocimene	ND	-
β-Ocimene	<LOQ	-
α-Pinene	9.31	0.000931
β-Pinene	<LOQ	-
α-Terpinene	ND	-
γ-Terpinene	<LOQ	-
Terpinolene	ND	-
<b>TOTAL</b>	<b>509</b>	<b>0.0509</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 (ppm): 4.60**

"-" Not detected above LOD.

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**Cultivar (Strain) or Sample Description:** AR-Wana Gummies Mango Sativa 100mg 10pk **Date Completed:** 06/23/2025

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

**Analysis Date/Time:** 06/19/2025 1646 **Method:** HS/GC/MS **Deviations from SOP:**  
**Analyst:** KF **Instrument:** Agilent 7890/5975 **None**

Solvent	Result (ppm)	LOD (ppm)	LOQ (ppm)	Action Level (ppm)	Solvent	Result (ppm)	LOD (ppm)	LOQ (ppm)	Action Level (ppm)
Acetone (67-64-1)	-	38.0	76.0	5000	n-Heptane (142-82-5)	-	38.0	76.0	5000
Acetonitrile (75-5-8)	-	38.0	76.0	410	n-Hexane (110-54-3)	-	13.3	26.6	290
Benzene (71-43-2)	-	0.380	0.760	2	Isobutane (75-28-5)	-	38.0	76.0	5000
n-Butane (106-97-2)	-	38.0	76.0	5000	Isopropanol (67-63-0)	-	38.0	76.0	5000
1-Butanol (71-36-3)	-	38.0	76.0	5000	Isopropyl acetate (108-21-4)	-	38.0	76.0	5000
2-Butanol (78-92-2)	-	38.0	76.0	5000	Isopropyl benzene (98-82-8)	-	3.80	7.60	70
2-Butanone (78-93-3)	-	38.0	76.0	5000	Methanol (67-56-1)	-	38.0	76.0	3000
Cyclohexane (110-82-7)	-	38.0	76.0	3880	2-Methylbutane (78-78-4)	-	38.0	76.0	5000
1,2-Dimethoxyethane (110-71-4)	-	3.80	7.60	100	Methylene chloride (75-9-2)	-	38.0	76.0	600
N,N-Dimethylacetamide (127-19-5)	-	38.0	76.0	1090	2-Methylpentane (107-83-5)	-	13.3	26.6	290
2,2-Dimethylbutane (75-83-2)	-	13.3	26.6	290	3-Methylpentane (96-10-0)	-	13.3	26.6	290
2,3-Dimethylbutane (79-29-8)	-	13.3	26.6	290	n-Pentane (109-66-0)	-	38.0	76.0	5000
N,N-Dimethylformamide (68-12-2)	-	38.0	76.0	880	1-Pentanol (71-41-0)	-	38.0	76.0	5000
Dimethylsulfoxide (67-68-5)	-	38.0	76.0	5000	n-Propane (74-98-6)	-	38.0	76.0	5000
1,4-Dioxane (123-91-1)	-	38.0	76.0	380	1-Propanol (71-23-8)	-	38.0	76.0	5000
Ethanol (64-17-5)	-	38.0	76.0	5000	Pyridine (110-86-1)	-	13.3	26.6	200
2-Ethoxyethanol (110-80-5)	-	13.3	26.6	160	Tetrahydrofuran (109-99-9)	-	38.0	76.0	720
Ethyl ether (60-29-7)	-	38.0	76.0	5000	Tetramethylene sulfone (126-33-0)	-	13.3	26.6	160
Ethyl acetate (141-78-6)	-	38.0	76.0	5000	Toluene (108-88-3)	-	38.0	76.0	890
Ethyl benzene (100-41-4)	-	38.0	76.0	2170	o-Xylene (95-47-6)	-	38.0	76.0	2170
Ethylene glycol (107-21-1)	-	38.0	76.0	620	m,p-Xylene (108-38-3 or 106-42-3)	-	38.0	76.0	2170
Ethylene oxide (75-21-8)	-	3.80	7.60	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:** AR-Wana Gummies Mango Sativa 100mg 10pk **Date Completed:** 06/23/2025

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

**Analysis Date/Time:** 06/20/2025 1531  
**Analyst:** KF

**Method:** LC/MS/MS  
**Instrument:** Shimadzu LC-8050

**Deviations from SOP:**  
None

Pesticide	Result (ppm)	LOD (ppm)	LOQ (ppm)	Action Level (ppm)	Pesticide	Result (ppm)	LOD (ppm)	LOQ (ppm)	Action Level (ppm)
Abamectin (71751-41-2)	-	0.00923	0.0739	0.5	Kresoxim-methyl (143390-89-0)	-	0.00923	0.0739	0.4
Acephate (30560-19-1)	-	0.00923	0.0739	0.4	Malathion (121-75-5)	-	0.00923	0.0739	0.2
Acequinocyl (57960-19-7)	-	0.00923	0.0739	2	Metalaxyl (57837-19-1)	-	0.00923	0.0739	0.2
Acetamiprid (135410-20-7)	-	0.00923	0.0739	0.2	Methiocarb (2032-65-7)	-	0.00923	0.0739	0.2
Aldicarb (116-06-3)	-	0.00923	0.0739	0.4	Methomyl (16752-77-5)	-	0.00923	0.0739	0.4
Azoxystrobin (131860-33-8)	-	0.00923	0.0739	0.2	Methyl parathion (298-0-0)	-	0.00923	0.0739	0.2
Bifenazate (149877-41-8)	-	0.00923	0.0739	0.2	MGK 264 (113-48-4)	-	0.00923	0.0739	0.2
Bifenthrin (82657-04-3)	-	0.00923	0.0739	0.2	Myclobutanil (88671-89-0)	-	0.00923	0.0739	0.2
Boscalid (188425-85-6)	-	0.00923	0.0739	0.4	Naled (300-76-5)	-	0.00923	0.0739	0.5
Carbaryl (63-25-2)	-	0.00923	0.0739	0.2	Oxamyl (23135-22-0)	-	0.00923	0.0739	1
Carbofuran (1563-66-2)	-	0.00923	0.0739	0.2	Paclobotrazol (76738-62-0)	-	0.00923	0.0739	0.4
Chlorantraniliprole (800008-45-7)	-	0.00923	0.0739	0.2	Permethrins (52645-53-1)	-	0.00923	0.0739	0.2
Chlorfenapyr (122453-73-0)	-	0.00923	0.0739	1	Phosmet (732-11-6)	-	0.00923	0.0739	0.2
Chlorpyrifos (2921-88-2)	-	0.00923	0.0739	0.2	Piperonyl butoxide (51-03-6)	-	0.00923	0.0739	2
Clofentezine (74115-24-5)	-	0.00923	0.0739	0.2	Prallethrin (2331-36-9)	-	0.00923	0.0739	0.2
Cyfluthrin (68359-37-5)	-	0.00923	0.0739	1	Propiconazole (60207-90-1)	-	0.00923	0.0739	0.4
Cypermethrin (52315-07-8)	-	0.00923	0.0739	1	Propoxur (114-26-1)	-	0.00923	0.0739	0.2
Daminozide (1596-84-5)	-	0.00923	0.0739	1	Pyrethrins (8003-34-7)	-	0.00923	0.0739	1
DDVP (62-73-7)	-	0.00923	0.0739	0.1	Pyridaben (96489-71-3)	-	0.00923	0.0739	0.2
Diazinon (333-41-5)	-	0.00923	0.0739	0.2	Spinosad (168316-95-8)	-	0.00923	0.0739	0.2
Dimethoate (60-51-5)	-	0.00923	0.0739	0.2	Spiromesifen (283594-90-1)	-	0.00923	0.0739	0.2
Ethoprophos (13194-48-4)	-	0.00923	0.0739	0.2	Spirotetramat (203313-25-1)	-	0.00923	0.0739	0.2
Etofenprox (80844-07-1)	-	0.00923	0.0739	0.4	Spiroxamine (118134-30-8)	-	0.00923	0.0739	0.4
Ettoxazole (153233-91-1)	-	0.00923	0.0739	0.2	Tebuconazole (80443-41-0)	-	0.00923	0.0739	0.4
Fenoxycarb (72490-01-8)	-	0.00923	0.0739	0.2	Thiacloprid (111988-49-9)	-	0.00923	0.0739	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.00923	0.0739	0.4	Thiamethoxam (153719-23-4)	-	0.00923	0.0739	0.2
Fipronil (120068-37-3)	-	0.00923	0.0739	0.4	Trifloxystrobin (141517-21-7)	-	0.00923	0.0739	0.2
Flonicamid (158062-67-0)	-	0.00923	0.0739	1					
Fludioxinil (131341-86-1)	-	0.00923	0.0739	0.4					
Hexythiazox (78587-05-0)	-	0.00923	0.0739	1					
Imazalil (35554-44-0)	-	0.00923	0.0739	0.2					
Imidacloprid (138261-41-3)	-	0.00923	0.0739	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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F.A.S.T. Personnel perform sampling following the Sampling SOP (SOP-02).

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



**CERTIFICATE OF ANALYSIS (SAMPLE ID: SA41453)**

<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> OR11657 <b>Lot Number:</b> M00065C13226611796 <b>Production Run:</b> P20250617MAN10	<b>Sample Type:</b> Primary <b>Matrix:</b> Edible <b>Mass:</b> 1ea <b>Date Collected:</b> 06/19/2025 <b>Date Received:</b> 06/19/2025
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**Cultivar (Strain) or Sample Description:** AR-Wana Gummies Mango Sativa 100mg 10pk **Date Completed:** 06/23/2025

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

**Analysis Date/Time:** 06/20/2025 1650

**Method:** ICP/MS

**Deviations from SOP:**

**Instrument:** Agilent 7700x

None

**Analyst:** KF

<b>Heavy Metal</b>	<b>Result (ppb)</b>	<b>LOD (ppb)</b>	<b>LOQ (ppb)</b>	<b>Action Level (ppb)</b>
Arsenic (As)	ND	58.8	93.1	200
Cadmium (Cd)	ND	58.8	93.1	200
Lead (Pb)	ND	58.8	93.1	500
Mercury (Hg)	ND	58.8	93.1	100



**Abbreviations:** ICP - Inductively-Coupled Plasma, MS - Mass Spectrometry, 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

"ND" not detected above LOD

Reporting limit is 1/2 the action level of each analyte.

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: SA41453)**

<b>Testing Location:</b> Arkansas 232 S. Broadview St. Greenbrier, AR 72058 -	<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> SA41453 <b>Lot Number:</b> M00065C13226611796 <b>Production Run:</b> P20250617MAN10	<b>Sample Type:</b> Primary <b>Matrix:</b> Edible <b>Mass:</b> 1ea <b>Date Collected:</b> 06/19/2025 <b>Date Received:</b> 06/19/2025
<b>Cultivar (Strain) or Sample Description:</b> AR-Wana Gummies Mango Sativa 100mg 10pk			<b>Date Completed:</b> 06/23/2025

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

**Analysis Date/Time:** 06/20/2025 1210      **Method:** Hardy Diagnostics CompactDry      **Deviations from SOP:**  
**Analyst:** PW      **Instrument:** Thermo Incubator      None

<u>Bacteria/Microbe</u>	<u>Result (CFU/g)</u>	<u>Action Level (CFU/g)</u>
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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F.A.S.T. Personnel perform sampling following the Sampling SOP (SOP-02).

*Kyle W. Felling*  
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Laboratory Director

