

**SUMMARY OF ANALYSIS (SAMPLE ID: SA36804)**

<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> OR10800 <b>Lot Number:</b> M00065C13221347546 <b>Production Run:</b> P20231227STRLEM06	<b>Sample Type:</b> Primary <b>Matrix:</b> Edible <b>Mass:</b> 10pieces <b>Date Collected:</b> 01/04/2024 <b>Date Received:</b> 01/04/2024 <b>Date Completed:</b> 01/08/2024
<b>Cultivar (Strain) or Sample Description:</b> AR-Wana Gummies Strawberry Lemonade Hybrid			

\*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>
CBD	0.232	2.32
Δ9-THC	0.212	2.12
CBDA	-	-
TOTAL CBD	0.232	2.32
TOTAL THC	0.212	2.12
TOTAL CANNABINOIDS	0.445	4.45

<b>Terpenes (Top 5)</b>	<b>(%)</b>	<b>µg/g</b>
d-Limonene	0.0105	105
β-Pinene	0.00181	18.1
γ-Terpinene	0.00130	13.0
p-Cymene	0.000362	3.62
α-Pinene	0.000290	2.90
TOTAL TERPENES	0.0145	145

<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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**REPORT OF LABORATORY ANALYSIS**

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

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<b>Cultivar (Strain) or Sample Description:</b> AR-Wana Gummies Strawberry Lemonade Hybrid			<b>Date Completed:</b> 01/08/2024

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

**Analysis Date/Time:** 01/05/2024 1444  
**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	0.00226	0.00528	-	-	-
BCA	ND	ND	0.00703	0.0164	-	-	-
CBD	0.232	2.32	0.0160	0.0373	-	10.5	105
CBDA	ND	ND	0.00588	0.0137	-	-	-
CBDV	ND	ND	0.00256	0.00598	-	-	-
CBDVA	ND	ND	0.00683	0.0159	-	-	-
CBG	ND	ND	0.0104	0.0242	-	-	-
CBGA	ND	ND	0.0147	0.0173	-	-	-
CBL	ND	ND	0.0120	0.0280	-	-	-
CBN	ND	ND	0.00550	0.0128	-	-	-
CBNA	ND	ND	0.00594	0.0138	-	-	-
Δ9-THC	0.212	2.12	0.00659	0.0154	-	9.61	96.1
Δ8-THC	ND	ND	0.0103	0.0240	-	-	-
THCA	ND	ND	0.00357	0.00836	-	-	-
THCV	ND	ND	0.00858	0.0200	-	-	-
THCVA	ND	ND	0.00274	0.00637	-	-	-
<b>TOTAL</b>	<b>0.445</b>	<b>4.45</b>				<b>20.1</b>	<b>201</b>
<b>TOTAL CBC</b>	-	-				-	-
<b>TOTAL CBD</b>	0.232	2.32				10.5	105
<b>TOTAL CBDV</b>	-	-				-	-
<b>TOTAL CBG</b>	-	-				-	-
<b>TOTAL CBN</b>	-	-				-	-
<b>TOTAL THC</b>	0.212	2.12				9.61	96.1
<b>TOTAL THC V</b>	-	-				-	-



**SERVING MASS (g):** 4.53  
**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 = (BCA 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, UM - Measurement Uncertainty

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<b>Cultivar (Strain) or Sample Description:</b> AR-Wana Gummies Strawberry Lemonade Hybrid			<b>Date Completed:</b> 01/08/2024

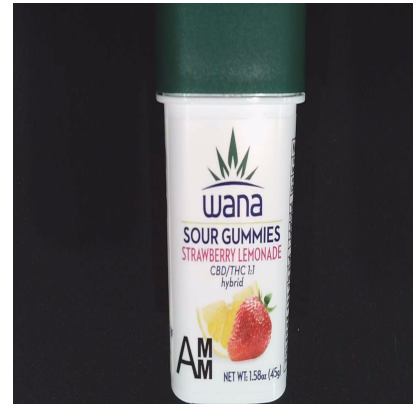
**TERPENOID PROFILE**

**Analysis Date/Time:** 01/06/2024 0212  
**Analyst:** KF

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

**Deviations from SOP:**  
None

<u>Terpene</u>	<u>Result (µg/g)</u>	<u>Result (%)</u>	
α-Bisabolol	2.17	0.000217	
Camphene	ND	-	
δ-3-Carene	ND	-	
β-Caryophyllene	ND	-	
Caryophyllene oxide	ND	-	
p-Cymene	3.62	0.000362	
Eucalyptol	ND	-	
Geraniol	ND	-	
Guaiol	<LOQ	-	
α-Humulene	ND	-	
Isopulegol	ND	-	
d-Limonene	105	0.0105	█
Linalool	ND	-	
β-Myrcene	ND	-	
cis-Nerolidol	ND	-	
trans-Nerolidol	ND	-	
α-Ocimene	ND	-	
β-Ocimene	ND	-	
α-Pinene	2.90	0.000290	
β-Pinene	18.1	0.00181	█
α-Terpinene	ND	-	
γ-Terpinene	13.0	0.00130	
Terpinolene	ND	-	
<b>TOTAL</b>	<b>145</b>	<b>0.0145</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 (µg/g): 1.81**

"-" Not detected above LOD.

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<b>Cultivar (Strain) or Sample Description:</b> AR-Wana Gummies Strawberry Lemonade Hybrid			<b>Date Completed:</b> 01/08/2024

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

<b>Analysis Date/Time:</b> 01/05/2024 1818	<b>Method:</b> HS/GC/MS	<b>Deviations from SOP:</b>
<b>Analyst:</b> KF	<b>Instrument:</b> Agilent 7890/5975	None

Solvent	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)	Solvent	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)
Acetone (67-64-1)	-	152	305	5000	n-Heptane (142-82-5)	-	152	305	5000
Acetonitrile (75-5-8)	-	152	305	410	n-Hexane (110-54-3)	-	53.3	107	290
Benzene (71-43-2)	-	152	305	2	Isobutane (75-28-5)	-	152	305	5000
n-Butane (106-97-2)	-	152	305	5000	Isopropanol (67-63-0)	-	152	305	5000
1-Butanol (71-36-3)	-	152	305	5000	Isopropyl acetate (108-21-4)	-	152	305	5000
2-Butanol (78-92-2)	-	152	305	5000	Isopropyl benzene (98-82-8)	-	15.2	30.5	70
2-Butanone (78-93-3)	-	152	305	5000	Methanol (67-56-1)	-	152	305	3000
Cyclohexane (110-82-7)	-	152	305	3880	2-Methylbutane (78-78-4)	-	152	305	5000
1,2-Dimethoxyethane (110-71-4)	-	15.2	30.5	100	Methylene chloride (75-9-2)	-	152	305	600
N,N-Dimethylacetamide (127-19-5)	-	152	305	1090	2-Methylpentane (107-83-5)	-	53.3	107	290
2,2-Dimethylbutane (75-83-2)	-	53.3	107	290	3-Methylpentane (96-10-0)	-	53.3	107	290
2,3-Dimethylbutane (79-29-8)	-	53.3	107	290	n-Pentane (109-66-0)	-	152	305	5000
N,N-Dimethylformamide (68-12-2)	-	152	305	880	1-Pentanol (71-41-0)	-	152	305	5000
Dimethylsulfoxide (67-68-5)	-	152	305	5000	n-Propane (74-98-6)	-	152	305	5000
1,4-Dioxane (123-91-1)	-	152	305	380	1-Propanol (71-23-8)	-	152	305	5000
Ethanol (64-17-5)	-	152	305	5000	Pyridine (110-86-1)	-	53.3	107	200
2-Ethoxyethanol (110-80-5)	-	53.3	107	160	Tetrahydrofuran (109-99-9)	-	152	305	720
Ethyl ether (60-29-7)	-	152	305	5000	Tetramethylene sulfone (126-33-0)	-	53.3	107	160
Ethyl acetate (141-78-6)	-	152	305	5000	Toluene (108-88-3)	-	152	305	890
Ethyl benzene (100-41-4)	-	152	305	2170	o-Xylene (95-47-6)	-	152	305	2170
Ethylene glycol (107-21-1)	-	152	305	620	m,p-Xylene (108-38-3 or 106-42-3)	-	152	305	2170
Ethylene oxide (75-21-8)	-	15.2	30.5	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.

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 Strawberry Lemonade Hybrid **Date Completed:** 01/08/2024

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

**Analysis Date/Time:** 01/05/2024 1451  
**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)	-	0.00994	0.0795	0.5	Kresoxim-methyl (143390-89-0)	-	0.00994	0.0795	0.4
Acephate (30560-19-1)	-	0.00994	0.0795	0.4	Malathion (121-75-5)	-	0.00994	0.0795	0.2
Acequinocyl (57960-19-7)	-	0.00994	0.0795	2	Metalaxyl (57837-19-1)	-	0.00994	0.0795	0.2
Acetamiprid (135410-20-7)	-	0.00994	0.0795	0.2	Methiocarb (2032-65-7)	-	0.00994	0.0795	0.2
Aldicarb (116-06-3)	-	0.00994	0.0795	0.4	Methomyl (16752-77-5)	-	0.00994	0.0795	0.4
Azoxystrobin (131860-33-8)	-	0.00994	0.0795	0.2	Methyl parathion (298-0-0)	-	0.00994	0.0795	0.2
Bifenazate (149877-41-8)	-	0.00994	0.0795	0.2	MGK 264 (113-48-4)	-	0.00994	0.0795	0.2
Bifenthrin (82657-04-3)	-	0.00994	0.0795	0.2	Myclobutanil (88671-89-0)	-	0.00994	0.0795	0.2
Boscalid (188425-85-6)	-	0.00994	0.0795	0.4	Naled (300-76-5)	-	0.00994	0.0795	0.5
Carbaryl (63-25-2)	-	0.00994	0.0795	0.2	Oxamyl (23135-22-0)	-	0.00994	0.0795	1
Carbofuran (1563-66-2)	-	0.00994	0.0795	0.2	Paclobotrazol (76738-62-0)	-	0.00994	0.0795	0.4
Chlorantraniliprole (800008-45-7)	-	0.00994	0.0795	0.2	Permethrins (52645-53-1)	-	0.00994	0.0795	0.2
Chlorfenapyr (122453-73-0)	-	0.00994	0.0795	1	Phosmet (732-11-6)	-	0.00994	0.0795	0.2
Chlorpyrifos (2921-88-2)	-	0.00994	0.0795	0.2	Piperonyl butoxide (51-03-6)	-	0.00994	0.0795	2
Clofentezine (74115-24-5)	-	0.00994	0.0795	0.2	Prallethrin (2331-36-9)	-	0.00994	0.0795	0.2
Cyfluthrin (68359-37-5)	-	0.00994	0.0795	1	Propiconazole (60207-90-1)	-	0.00994	0.0795	0.4
Cypermethrin (52315-07-8)	-	0.00994	0.0795	1	Propoxur (114-26-1)	-	0.00994	0.0795	0.2
Daminozide (1596-84-5)	-	0.00994	0.0795	1	Pyrethrins (8003-34-7)	-	0.00994	0.0795	1
DDVP (62-73-7)	-	0.00994	0.0795	0.1	Pyridaben (96489-71-3)	-	0.00994	0.0795	0.2
Diazinon (333-41-5)	-	0.00994	0.0795	0.2	Spinosad (168316-95-8)	-	0.00994	0.0795	0.2
Dimethoate (60-51-5)	-	0.00994	0.0795	0.2	Spiromesifen (283594-90-1)	-	0.00994	0.0795	0.2
Ethoprophos (13194-48-4)	-	0.00994	0.0795	0.2	Spirotetramat (203313-25-1)	-	0.00994	0.0795	0.2
Etofenprox (80844-07-1)	-	0.00994	0.0795	0.4	Spiroxamine (118134-30-8)	-	0.00994	0.0795	0.4
Etoxazole (153233-91-1)	-	0.00994	0.0795	0.2	Tebuconazole (80443-41-0)	-	0.00994	0.0795	0.4
Fenoxycarb (72490-01-8)	-	0.00994	0.0795	0.2	Thiacloprid (111988-49-9)	-	0.00994	0.0795	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.00994	0.0795	0.4	Thiamethoxam (153719-23-4)	-	0.00994	0.0795	0.2
Fipronil (120068-37-3)	-	0.00994	0.0795	0.4	Trifloxystrobin (141517-21-7)	-	0.00994	0.0795	0.2
Flonicamid (158062-67-0)	-	0.00994	0.0795	1					
Fludioxinil (131341-86-1)	-	0.00994	0.0795	0.4					
Hexythiazox (78587-05-0)	-	0.00994	0.0795	1					
Imazalil (35554-44-0)	-	0.00994	0.0795	0.2					
Imidacloprid (138261-41-3)	-	0.00994	0.0795	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.  
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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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Laboratory Director

**CERTIFICATE OF ANALYSIS (SAMPLE ID: SA36804)**

<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> OR10800 <b>Lot Number:</b> M00065C13221347546 <b>Production Run:</b> P20231227STRLEM06	<b>Sample Type:</b> Primary <b>Matrix:</b> Edible <b>Mass:</b> 10pieces <b>Date Collected:</b> 01/04/2024 <b>Date Received:</b> 01/04/2024 <b>Date Completed:</b> 01/08/2024
<b>Cultivar (Strain) or Sample Description:</b> AR-Wana Gummies Strawberry Lemonade Hybrid			

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

<b>Analysis Date/Time:</b> 01/05/2024 1904 (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		

<u>Heavy Metal</u>	<u>Result (µg/kg)</u>	<u>LOD (µg/kg)</u>	<u>LOQ (µg/kg)</u>	<u>Action Level (µg/kg)</u>
Arsenic (As)	-	55.1	87.3	200
Cadmium (Cd)	-	55.1	87.3	200
Lead (Pb)	-	55.1	87.3	500
Mercury (Hg)	-	55.1	87.3	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.

**REPORT OF LABORATORY ANALYSIS**

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[www.FASTLaboratories.com](http://www.FASTLaboratories.com)

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



**CERTIFICATE OF ANALYSIS (SAMPLE ID: SA36804)**

<b>Testing Location:</b> Arkansas 232 S. Broadview St. Greenbrier, AR 72058 License: ADA 05_H273	<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> SA36804 <b>Lot Number:</b> M00065C13221347546 <b>Production Run:</b> P20231227STRLEM06	<b>Sample Type:</b> Primary <b>Matrix:</b> Edible <b>Mass:</b> 10pieces <b>Date Collected:</b> 01/04/2024 <b>Date Received:</b> 01/04/2024 <b>Date Completed:</b> 01/08/2024
<b>Cultivar (Strain) or Sample Description:</b> AR-Wana Gummies Strawberry Lemonade Hybrid			

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

**Analysis Date/Time:** 01/06/2024 1130      **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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*Kyle W. Felling*  
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 Laboratory Director

