

**SUMMARY OF ANALYSIS (SAMPLE ID: SA39100)**

<b>Testing Location:</b>	<b>Customer ID:</b> 2168	<b>Order ID:</b> OR11236	<b>Sample Type:</b> Primary
Arkansas	River Valley Relief MIPS	<b>Lot Number:</b>	<b>Matrix:</b> Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13247521190	<b>Mass:</b> 3ea
Greenbrier, AR 72058	Fort Smith, AR 72903	<b>Production Run:</b>	<b>Date Collected:</b> 10/11/2024
License: ADH 113	License: 00065C	E20241011MAC102	<b>Date Received:</b> 10/14/2024
<b>Cultivar (Strain) or Sample Description:</b> MAC 1 Solventless Bubble Hash 1.5g Jar			<b>Date Completed:</b> 10/15/2024

\*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>
THCA	51.3	513
Δ9-THC	3.58	35.8
CBGA	0.929	9.29
TOTAL CBD	-	-
TOTAL THC	48.6	486
TOTAL CANNABINOIDS	56.1	561

<b>Terpenes (Top 5)</b>	<b>(%)</b>	<b>µg/g</b>
β-Caryophyllene	0.600	6000
d-Limonene	0.471	4710
α-Bisabolol	0.410	4100
Linalool	0.301	3010
α-Humulene	0.240	2400
TOTAL TERPENES	2.69	26900

<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: SA39100)**

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

**Analysis Date/Time:** 10/14/2024 1813  
**Analyst:** PW

**Method:** HPLC/DAD  
**Instrument:** Agilent 1100

**Moisture Content (%):** -  
**Water Activity (aw):** -

<u>Cannabinoid</u>	<u>Result</u> (%)	<u>Result</u> (mg/g)	<u>LOD</u> (mg/g)	<u>LOQ</u> (mg/g)	<u>Result</u> (mg/ mL)	<u>Per</u> <u>Serving</u> (mg)	<u>Per</u> <u>Unit</u> (mg)
CBC	ND	ND	0.111	0.260	-	-	-
CBCA	ND	ND	0.345	0.806	-	-	-
CBD	ND	ND	0.784	1.83	-	-	-
CBDV	ND	ND	0.289	0.674	-	-	-
CBDVA	ND	ND	0.336	0.783	-	-	-
CBG	ND	ND	0.509	1.19	-	-	-
CBGA	0.929	9.29	0.722	0.852	-	9.29	9.29
CBL	ND	ND	0.588	1.37	-	-	-
CBN	ND	ND	0.270	0.631	-	-	-
CBNA	ND	ND	0.292	0.680	-	-	-
Δ9-THC	3.58	35.8	0.324	0.755	-	35.8	35.8
Δ8-THC	ND	ND	0.505	1.18	-	-	-
THCA	51.3	513	0.176	0.411	-	513	513
THCV	ND	ND	0.421	0.982	-	-	-
THCVA	0.293	2.93	0.135	0.313	-	2.93	2.93
<b>TOTAL</b>	<b>56.1</b>	<b>561</b>			<b>-</b>	<b>561</b>	<b>561</b>
<b>TOTAL CBC</b>	-	-			-	-	-
<b>TOTAL CBD</b>	-	-			-	-	-
<b>TOTAL CBDV</b>	-	-			-	-	-
<b>TOTAL CBG</b>	0.816	8.16			-	8.16	8.16
<b>TOTAL CBN</b>	-	-			-	-	-
<b>TOTAL THC</b>	48.6	486			-	486	486
<b>TOTAL THCV</b>	0.254	2.54			-	2.54	2.54



**SERVING MASS (g): 1.00**  
**SERVINGS/UNIT: 1**

"-" 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 = (CBDV 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

*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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Percentage results are reported by mass.

mg/g results are reported as mass component per mass material.

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



**CERTIFICATE OF ANALYSIS (SAMPLE ID: SA39100)**

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License: ADH 113	License: 00065C	E20241011MAC102	<b>Date Received:</b> 10/14/2024
<b>Cultivar (Strain) or Sample Description:</b> MAC 1 Solventless Bubble Hash 1.5g Jar			<b>Date Completed:</b> 10/15/2024

**TERPENOID PROFILE**

**Analysis Date/Time:** 10/14/2024 2112

**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	4100	0.410	■
Camphene	277	0.0277	■
δ-3-Carene	ND	-	
β-Caryophyllene	6000	0.600	■
Caryophyllene oxide	ND	-	
p-Cymene	ND	-	
Eucalyptol	<LOQ	-	
Geraniol	72.4	0.00724	■
Guaiol	ND	-	
α-Humulene	2400	0.240	■
Isopulegol	79.7	0.00797	■
d-Limonene	4710	0.471	■
Linalool	3010	0.301	■
β-Myrcene	1110	0.111	■
cis-Nerolidol	ND	-	
trans-Nerolidol	1280	0.128	■
α-Ocimene	ND	-	
β-Ocimene	183	0.0183	■
α-Pinene	1800	0.180	■
β-Pinene	1760	0.176	■
α-Terpinene	ND	-	
γ-Terpinene	ND	-	
Terpinolene	86.7	0.00867	■
<b>TOTAL</b>	<b>26900</b>	<b>2.69</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): 48.8**

"-" Not detected above LOD.

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License: ADH 113	License: 00065C	E20241011MAC102	<b>Date Received:</b> 10/14/2024

**Cultivar (Strain) or Sample Description:** MAC 1 Solventless Bubble Hash 1.5g Jar **Date Completed:** 10/15/2024

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

<b>Analysis Date/Time:</b> 10/14/2024 1835	<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)	-	39.5	78.9	5000	n-Heptane (142-82-5)	-	39.5	78.9	5000
Acetonitrile (75-5-8)	-	39.5	78.9	410	n-Hexane (110-54-3)	-	13.8	27.6	290
Benzene (71-43-2)	-	0.395	0.789	2	Isobutane (75-28-5)	-	39.5	78.9	5000
n-Butane (106-97-2)	-	39.5	78.9	5000	Isopropanol (67-63-0)	-	39.5	78.9	5000
1-Butanol (71-36-3)	-	39.5	78.9	5000	Isopropyl acetate (108-21-4)	-	39.5	78.9	5000
2-Butanol (78-92-2)	-	39.5	78.9	5000	Isopropyl benzene (98-82-8)	-	3.95	7.89	70
2-Butanone (78-93-3)	-	39.5	78.9	5000	Methanol (67-56-1)	-	39.5	78.9	3000
Cyclohexane (110-82-7)	-	39.5	78.9	3880	2-Methylbutane (78-78-4)	-	39.5	78.9	5000
1,2-Dimethoxyethane (110-71-4)	-	3.95	7.89	100	Methylene chloride (75-9-2)	-	39.5	78.9	600
N,N-Dimethylacetamide (127-19-5)	-	39.5	78.9	1090	2-Methylpentane (107-83-5)	-	13.8	27.6	290
2,2-Dimethylbutane (75-83-2)	-	13.8	27.6	290	3-Methylpentane (96-10-0)	-	13.8	27.6	290
2,3-Dimethylbutane (79-29-8)	-	13.8	27.6	290	n-Pentane (109-66-0)	-	39.5	78.9	5000
N,N-Dimethylformamide (68-12-2)	-	39.5	78.9	880	1-Pentanol (71-41-0)	-	39.5	78.9	5000
Dimethylsulfoxide (67-68-5)	-	39.5	78.9	5000	n-Propane (74-98-6)	-	39.5	78.9	5000
1,4-Dioxane (123-91-1)	-	39.5	78.9	380	1-Propanol (71-23-8)	-	39.5	78.9	5000
Ethanol (64-17-5)	-	39.5	78.9	5000	Pyridine (110-86-1)	-	13.8	27.6	200
2-Ethoxyethanol (110-80-5)	-	13.8	27.6	160	Tetrahydrofuran (109-99-9)	-	39.5	78.9	720
Ethyl ether (60-29-7)	-	39.5	78.9	5000	Tetramethylene sulfone (126-33-0)	-	13.8	27.6	160
Ethyl acetate (141-78-6)	-	39.5	78.9	5000	Toluene (108-88-3)	-	39.5	78.9	890
Ethyl benzene (100-41-4)	-	39.5	78.9	2170	o-Xylene (95-47-6)	-	39.5	78.9	2170
Ethylene glycol (107-21-1)	-	39.5	78.9	620	m,p-Xylene (108-38-3 or 106-42-3)	-	39.5	78.9	2170
Ethylene oxide (75-21-8)	-	3.95	7.89	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.

<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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**Cultivar (Strain) or Sample Description:** MAC 1 Solventless Bubble Hash 1.5g Jar **Date Completed:** 10/15/2024

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

**Analysis Date/Time:** 10/14/2024 1903

**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)	-	0.0485	0.388	0.5	Kresoxim-methyl (143390-89-0)	-	0.0485	0.388	0.4
Acephate (30560-19-1)	-	0.0485	0.388	0.4	Malathion (121-75-5)	-	0.0485	0.388	0.2
Acetaminophen (57960-19-7)	-	0.0485	0.388	2	Metalaxyl (57837-19-1)	-	0.0485	0.388	0.2
Acetamiprid (135410-20-7)	-	0.0485	0.388	0.2	Methiocarb (2032-65-7)	-	0.0485	0.388	0.2
Aldicarb (116-06-3)	-	0.0485	0.388	0.4	Methomyl (16752-77-5)	-	0.0485	0.388	0.4
Azoxystrobin (131860-33-8)	-	0.0485	0.388	0.2	Methyl parathion (298-0-0)	-	0.0485	0.388	0.2
Bifenazate (149877-41-8)	-	0.0485	0.388	0.2	MGK 264 (113-48-4)	-	0.0485	0.388	0.2
Bifenthrin (82657-04-3)	-	0.0485	0.388	0.2	Myclobutanil (88671-89-0)	-	0.0485	0.388	0.2
Boscalid (188425-85-6)	-	0.0485	0.388	0.4	Naled (300-76-5)	-	0.0485	0.388	0.5
Carbaryl (63-25-2)	-	0.0485	0.388	0.2	Oxamyl (23135-22-0)	-	0.0485	0.388	1
Carbofuran (1563-66-2)	-	0.0485	0.388	0.2	Paclobutrazol (76738-62-0)	-	0.0485	0.388	0.4
Chlorantraniliprole (800008-45-7)	-	0.0485	0.388	0.2	Permethrins (52645-53-1)	-	0.0485	0.388	0.2
Chlorfenapyr (122453-73-0)	-	0.0485	0.388	1	Phosmet (732-11-6)	-	0.0485	0.388	0.2
Chlorpyrifos (2921-88-2)	-	0.0485	0.388	0.2	Piperonyl butoxide (51-03-6)	-	0.0485	0.388	2
Clofentezine (74115-24-5)	-	0.0485	0.388	0.2	Prallethrin (2331-36-9)	-	0.0485	0.388	0.2
Cyfluthrin (68359-37-5)	-	0.0485	0.388	1	Propiconazole (60207-90-1)	-	0.0485	0.388	0.4
Cypermethrin (52315-07-8)	-	0.0485	0.388	1	Propoxur (114-26-1)	-	0.0485	0.388	0.2
Daminozide (1596-84-5)	-	0.0485	0.388	1	Pyrethrins (8003-34-7)	-	0.0485	0.388	1
DDVP (62-73-7)	-	0.0485	0.388	0.1	Pyridaben (96489-71-3)	-	0.0485	0.388	0.2
Diazinon (333-41-5)	-	0.0485	0.388	0.2	Spinosad (168316-95-8)	-	0.0485	0.388	0.2
Dimethoate (60-51-5)	-	0.0485	0.388	0.2	Spiromesifen (283594-90-1)	-	0.0485	0.388	0.2
Ethoprophos (13194-48-4)	-	0.0485	0.388	0.2	Spirotetramat (203313-25-1)	-	0.0485	0.388	0.2
Etofenprox (80844-07-1)	-	0.0485	0.388	0.4	Spiroxamine (118134-30-8)	-	0.0485	0.388	0.4
Etoazoxole (153233-91-1)	-	0.0485	0.388	0.2	Tebuconazole (80443-41-0)	-	0.0485	0.388	0.4
Fenoxycarb (72490-01-8)	-	0.0485	0.388	0.2	Thiacloprid (111988-49-9)	-	0.0485	0.388	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0485	0.388	0.4	Thiamethoxam (153719-23-4)	-	0.0485	0.388	0.2
Fipronil (120068-37-3)	-	0.0485	0.388	0.4	Trifloxystrobin (141517-21-7)	-	0.0485	0.388	0.2
Flonicamid (158062-67-0)	-	0.0485	0.388	1					
Fludioxinil (131341-86-1)	-	0.0485	0.388	0.4					
Hexythiazox (78587-05-0)	-	0.0485	0.388	1					
Imazalil (35554-44-0)	-	0.0485	0.388	0.2					
Imidacloprid (138261-41-3)	-	0.0485	0.388	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	Systhane	Propiconazole	Tilt
DDVP	Dichlorvos	Naled	Dibrom	Propoxur	Baygon
Ethoprophos	Prophos	Phosmet	Imidan		

**REPORT OF LABORATORY ANALYSIS**

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



**CERTIFICATE OF ANALYSIS (SAMPLE ID: SA39100)**

<b>Testing Location:</b>	<b>Customer ID:</b> 2168	<b>Order ID:</b> OR11236	<b>Sample Type:</b> Primary
Arkansas	River Valley Relief MIPS	<b>Lot Number:</b>	<b>Matrix:</b> Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13247521190	<b>Mass:</b> 3ea
Greenbrier, AR 72058	Fort Smith, AR 72903	<b>Production Run:</b>	<b>Date Collected:</b> 10/11/2024
License: ADH 113	License: 00065C	E20241011MAC102	<b>Date Received:</b> 10/14/2024
<b>Cultivar (Strain) or Sample Description:</b> MAC 1 Solventless Bubble Hash 1.5g Jar			<b>Date Completed:</b> 10/15/2024

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

<b>Analysis Date/Time:</b> 10/14/2024 1923	<b>Method:</b> ICP/MS	<b>Deviations from SOP:</b>
	<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)	-	58.2	92.2	200
Cadmium (Cd)	-	58.2	92.2	200
Lead (Pb)	-	58.2	92.2	500
Mercury (Hg)	-	58.2	92.2	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, Ph.D.  
Laboratory Director



**CERTIFICATE OF ANALYSIS (SAMPLE ID: SA39100)**

<b>Testing Location:</b>	<b>Customer ID:</b> 2168	<b>Sample ID:</b> SA39100	<b>Sample Type:</b> Primary
Arkansas	River Valley Relief MIPS	<b>Lot Number:</b>	<b>Matrix:</b> Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13247521190	<b>Mass:</b> 3ea
Greenbrier, AR 72058	Fort Smith, AR 72903	<b>Production Run:</b>	<b>Date Collected:</b> 10/11/2024
License: ADA 05_H273	License: 00065C	E20241011MAC102	<b>Date Received:</b> 10/14/2024
<b>Cultivar (Strain) or Sample Description:</b> MAC 1 Solventless Bubble Hash 1.5g Jar			<b>Date Completed:</b> 10/15/2024

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

<b>Analysis Date/Time:</b> 10/15/2024 0700	<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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