



#### SUMMARY OF ANALYSIS (SAMPLE ID: SA36325)

Testing Location:	Customer ID: 2168	Order ID: OR10680	Sample Type: Primary
Arkansas	<b>River Valley Relief MIPS</b>	Lot Number:	Matrix: Edible
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13222435363	Mass: 10pcs
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 10/30/2023
License: ADH 113	License: 00065C	P20231023WAT14	Date Received: 10/31/2023
Cultivar (Strain) or Sample D	<b>Date Completed:</b> 11/01/2023		

\*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.

<u>Cannabinoi</u>	<u>ds (Top 3)</u>	<u>(%)</u>	<u>mg</u> /g		
Δ9-Τ	HC	0.197	1.97		
Δ8-Τ	HC	0.0113	0.113		
CB	D		-		
TOTAL	CBD	-	-		
TOTAL	THC	0.197	1.97		
TOTAL CANN	NABINOIDS	0.208	2.08		
<u>Terpenes</u>	<u>(Top 5)</u>	<u>(%)</u>	µg∕g		
β-Caryop	hyllene	0.000941	9.41		
α-Bisa	bolol				
Campl	nene				
δ-3-Ca	rene				
Caryophyllo	ene oxide				
TOTAL TE	RPENES	0.000941 9.41			
<b>Contaminants</b>	PASS/FAIL	Sample Picture	<u>Upon Receipt</u>		
Heavy Metals:	PASS				
Microbiology:	PASS				
Pesticides:	PASS				
Residual Solvents:	PASS	Sec.			
		I III			



Scan the QR code to verify results.

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

REPORT OF LABORATORY ANALYSIS

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Cultivar (Strain) or Sample	Date Completed: 11/01/2023		

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

Analysis Date/Time: 10/31/2023 1531 Analyst: PW Method: HPLC/DAD Instrument: Agilent 1100

<u>Cannabinoid</u>	<u>Result</u> (%)	<u>Result</u> (mg/g)	<u>LOD</u> (mg/g)	LOQ (mg/g)	<u>Result</u> ( <u>mg/</u> <u>mL</u> )	<u>Per</u> Serving (mg)	<u>Per</u> <u>Unit</u> (mg)
CBC	ND	ND	0.00215	0.00501	-	-	-
CBCA	ND	ND	0.00667	0.0156	-	-	-
CBD	ND	ND	0.0151	0.0353	-	-	-
CBDA	ND	ND	0.00557	0.0130	-	-	-
CBDV	ND	ND	0.00243	0.00567	-	-	-
CBDVA	ND	ND	0.00648	0.0151	-	-	-
CBG	ND	ND	0.00983	0.0230	-	-	-
CBGA	ND	ND	0.0139	0.0164	-	-	-
CBL	ND	ND	0.0114	0.0265	-	-	-
CBN	ND	ND	0.00522	0.0122	-	-	-
CBNA	ND	ND	0.00563	0.0131	-	-	-
Δ9-ΤΗC	0.197	1.97	0.00625	0.0146	-	9.62	96.2
$\Delta 8$ -THC	0.0113	0.113	0.00975	0.0228	-	0.549	5.49
THCA	ND	ND	0.00339	0.00793	-	-	-
THCV	ND	ND	0.00813	0.0190	-	-	-
THCVA	ND	ND	0.00260	0.00604	-	-	-
TOTAL	0.208	2.08		,		10.2	102
TOTAL CBC	-	-				-	-
TOTAL CBD	-	-			-	-	-
TOTAL CBDV	-	-			-	-	-
TOTAL CBG	-	-			-	-	-
TOTAL CBN	-	-			-	-	-
TOTAL THC	0.197	1.97			-	9.62	96.2
TOTAL 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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Moisture Content (%): -Water Activity (aw): -



#### SERVING MASS (g): 4.88 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) +  $\Delta$ 9-THC Total THCV = (THCVA x 0.867) + THCV

Percentage results are reported by mass.

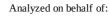
mg/g results are reported as mass component per mass material.

Kyle W. Felling, Ph.D. atory Directo











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Greenbrier, AR 72058	Fort Smith, AR 72903	<b>Production Run:</b>	Date Collected: 10/30/2023
License: ADH 113	License: 00065C	P20231023WAT14	Date Received: 10/31/2023
Cultivar (Strain) or Sample	<b>Date Completed:</b> 11/01/2023		

Analysis Date/Time:10/31/2023 2250		Met	hod: GC/MS	<b>Deviations from SOP:</b>			
Analyst: KF		Inst	r <b>ument:</b> Agilent 7890/5975	None			
<u>Terpene</u>	<u>Result</u> (µg/g)	<u>Result</u> <u>(%)</u>					
α-Bisabolol	ND	-					
Camphene	ND	-					
δ-3-Carene	ND	-					
β-Caryophyllene	9.41	0.000941		MA I I			
Caryophyllene oxide	ND	-		SOUR GUMMIES WITERALINA-			
p-Cymene	ND	-		So will be a			
Eucalyptol	ND	-		· AN HETMELER LEVE			
Geraniol	ND	-					
Guaiol	ND	-		Abhumistismu CC Car			
α-Humulene	ND	-		Abbreviations: GC - Gas Chromatography, MS - Mass			
Isopulegol	ND	-		Spectrometry, RL - Reporting Limit			
d-Limonene	ND	-		<i>Abbreviations:</i> ND - Not Detected, , LOD - Limit of Detection, LOQ - Limit			
Linalool	ND	-		of Quantitation			
β-Myrcene	ND	-		This information is provided as a service and makes no claims of efficacy and/or			
cis-Nerolidol	ND	-		safety of this product.			
trans-Nerolidol	ND	-		Results are applicable only for the sample(s) analyzed and for the specific			
α-Ocimene	ND	-		analysis conducted.			
β-Ocimene	ND	-		This report is for informational purposes			
α-Pinene	<loq< td=""><td>-</td><td></td><td>only and should not be used to diagnose, treat, or prevent any</td></loq<>	-		only and should not be used to diagnose, treat, or prevent any			
β-Pinene	ND	-		medical-related symptoms.			
α-Terpinene	ND	-		The statements and results herein have not been approved and/or endorsed by			
γ-Terpinene	ND	-		the FDA.			
Terpinolene	ND	-					
TOTAL	9.41	0.000941		Reporting Limit (µg/g): 7			

Reporting Limit (µg/g): 7.85

"-" Not detected above LOD.













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

Analysis Date/Time: Analyst: KF	10/31/20	)23 1933	1933 Method: HS/GC/MS Instrument: Agilent 7890/5975			<b>Deviations from SOP:</b> 75 None				
Solvent	<u>Result</u> (µg/g)	<u>LOD</u> (µg/g)	<u>LOQ</u> (µg/g)	<u>Action</u> Level (µg/g)	Solvent	<u>Result</u> (µg/g)	<u>LOD</u> (µg/g)	<u>LOQ</u> (µg/g)	<u>Action</u> Level (µg/g)	
Acetone (67-64-1)	-	126	251	5000	n-Heptane (142-82-5)	_	126	251	5000	
Acetonitrile (75-5-8)	-	126	251	410	n-Hexane (110-54-3)	-	44.0	87.9	290	
Benzene (71-43-2)	-	1.26	2.51	2	Isobutane (75-28-5)	-	126	251	5000	MA IN
n-Butane (106-97-2)	-	126	251	5000	Isopropanol (67-63-0)	_	126	251	5000	
1-Butanol (71-36-3)	-	126	251	5000	Isopropyl acetate		100	251	5000	SOURIE
2-Butanol (78-92-2)	-	126	251	5000	(108-21-4)	-	126	251	5000	No antimical
2-Butanone (78-93-3)	-	126	251	5000	Isopropyl benzene	_	12.6	25.1	70	Pun -
Cyclohexane (110-82-7)	-	126	251	3880	(98-82-8)					Color Key
1,2-Dimethoxyethane		10.0	05.4	100	Methanol (67-56-1)	288	126	251	3000	<u>coor Rey</u>
(110-71-4)	-	12.6	25.1	100	2-Methylbutane (78-78-4)	-	126	251	5000	<b>RESULT &lt; AL</b>
N,N-Dimethylacetamide (127-19-5)	-	126	251	1090	Methylene chloride (75-9-2)	-	126	251	600	RESULT > AL
2,2-Dimethylbutane (75-83-2)	-	44.0	87.9	290	2-Methylpentane (107-83-5)	-	44.0	87.9	290	"DET" detected less than LOQ
2,3-Dimethylbutane		44.0	87.9	290	3-Methylpentane (96-10-0)	-	44.0	87.9	290	"-" not detected above
(79-29-8)	_	44.0	07.9	290	n-Pentane (109-66-0)	-	126	251	5000	LOD
N,N-Dimethylformamide	_	126	251	880	1-Pentanol (71-41-0)	-	126	251	5000	"*" - o,m,p-Xylene and
(68-12-2)					n-Propane (74-98-6)	-	126	251	5000	Ethylbenzene
Dimethylsulfoxide (67-68-5)	-	126	251	5000	1-Propanol (71-23-8)	-	126	251	5000	
1,4-Dioxane (123-91-1)	_	126	251	380	Pyridine (110-86-1)	-	44.0	87.9	200	Action levels are referenced from the State of
Ethanol (64-17-5)	_	126	251	5000	Tetrahydrofuran (109-99-9)	-	126	251	720	Arkansas
2-Ethoxyethanol (110-80-5)	_	44.0	87.9	160	Tetramethylene sulfone	_	44.0	87.9	160	MMJ testing
Ethyl ether (60-29-7)	_	126	251	5000	(126-33-0)					guidelines.
Ethyl acetate (141-78-6)	_	126	251	5000	Toluene (108-88-3)	-	126	251	890	A value of "-"
Ethyl benzene (100-41-4)	_	126	251	2170	o-Xylene (95-47-6)	-	126	251	2170	for the action level
Ethylene glycol (107-21-1)	_	126	251	620	m,p-Xylene (108-38-3 or 106-42-3)	-	126	251	2170	means that analyte
Ethylene oxide (75-21-8)		12.6	25.1	50	Xylenes* (1330-20-7)		43.3	86.7	2170	is not currently
,				50			-	00.7	2170	regulated by the regulations referenced above.
<u>Solvent</u>		Synonym(s			<u>Solvent</u>		ynonym(s)			
Acetonitrile 1-Butanol		Methyl Cya		L - 1	Ethylene glycol		,2-Ethanediol			
		n-Butanol,	5	001	Isobutane		-Methylpropa			
2-Butanol		sec-Butyl a		(E) I	Isopropanol		-Propanol, IP/			
2-Butanone		Methyl eth	· ·	1EK	Isopropyl Acetate		cetic acid iso		r	
1,2-Dimethoxyethane		Monoglym			Methanol		fethyl alcoho	l		
2,3-Dimethylbutane		Neohexane			2-Methylbutane		sopentane			
2,3-Dimethylbutane		Diisopropy	71		Methylene chloride		Dichlorometha	ine		
N,N-Dimethylformamide		DMF			2-Methylpentane		sohexane			
Dimethysufoxide		DMSO			1-Pentanol		-Amyl alcoho			
2-Ethoxyethanol		Cellosolve		101	1-Propanol		ropyl alcohol			
Ethyl ether		Diethyl eth	er, Ether		Tetrahydrofuran		ΉF			
Ethyl acetate		EtOAc			Tetramethylene sulfone		ulfolane			
Ethyl benzene		Phenyletha	ne		Xylene	D	Dimethylbenze	ene		

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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**Deviations from SOP:** 

None



# **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA36325)**

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Cultivar (Strain) or Sample	Date Completed: 11/01/2023		

# Analysis Date/Time: 10/31/2023 1609 Analyst: KF

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

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

	<u>Result</u> (µg/g)	<u>LOD</u> (µg/g)	<u>LOQ</u> (µg/g)	<u>Action</u> Level (µg/g)	<u>Pesticide</u>	<u>Result</u> (µg/g)	<u>LOD</u> (µg/g)	<u>LOQ</u> (µg/g)	<u>Action</u> Level (µg/g)	
Abamectin (71751-41-2)	-	0.00946	0.0757	0.5	Kresoxim-methyl	_	0.00946	0.0757	0.4	
Acephate (30560-19-1)	-	0.00946	0.0757	0.4	(143390-89-0)					
Acequinocyl (57960-19-7)	-	0.00946	0.0757	2	Malathion (121-75-5)	-	0.00946	0.0757	0.2	
Acetamiprid (135410-20-7)	-	0.00946	0.0757	0.2	Metalaxyl (57837-19-1) Methiocarb (2032-65-7)	-	0.00946 0.00946	0.0757 0.0757	0.2 0.2	SOUR CUMMES SOUR CUMMES SOUR CUMMES SOUR CUMMES
Aldicarb (116-06-3)	-	0.00946	0.0757	0.4	Methomyl (16752-77-5)	-	0.00946	0.0757	0.4	
Azoxystrobin (131860-33-8)	-	0.00946	0.0757	0.2	Methyl parathion (298-0-0)	-	0.00946	0.0757	0.2	Air anni
Bifenazate (149877-41-8)	-	0.00946	0.0757	0.2	MGK 264 (113-48-4)	-	0.00946	0.0757	0.2	<u>Color Key</u>
Bifenthrin (82657-04-3)	-	0.00946	0.0757	0.2	Myclobutanil	_	0.00946	0.0757	0.2	<b>RESULT &lt; AL</b>
Boscalid (188425-85-6)	-	0.00946	0.0757	0.4	(88671-89-0)					<b>RESULT &gt; AL</b>
Carbaryl (63-25-2)	-	0.00946	0.0757	0.2	Naled (300-76-5)	-	0.00946	0.0757	0.5	
Carbofuran (1563-66-2)	-	0.00946	0.0757	0.2	Oxamyl (23135-22-0)	-	0.00946	0.0757	1	"DET" detected less than LOQ
Chlorantraniliprole (800008-45-7)	-	0.00946	0.0757	0.2	Paclobutrazol (76738-62-0)	-	0.00946	0.0757	0.4	"-" not detected above LOD
Chlorfenapyr (122453-73-0)	-	0.00946	0.0757	1	Permethrins (52645-53-1)	-	0.00946	0.0757	0.2	Permethrins measured as the
Chlorpyrifos (2921-88-2)	-	0.00946	0.0757	0.2	Phosmet (732-11-6)	-	0.00946	0.0757	0.2	cumulative residue of the <i>cis</i> - and <i>trans</i> - permethrin isomers.
Clofentezine (74115-24-5)	-	0.00946	0.0757	0.2	Piperonyl butoxide (51-03-6)	-	0.00946	0.0757	2	L
Cyfluthrin (68359-37-5)	-	0.00946	0.0757	1	(31-03-0) Prallethrins (2331-36-9)	_	0.00946	0.0757	0.2	Pyrethrins measured as the cumulative residue of the
Cypermethrin (52315-07-8)	-	0.00946	0.0757	1	Propiconazole (60207-90-1))	_	0.00946	0.0757	0.4	pyrethrin I, cinerin I, and jasmolin I isomers.
Daminozide (1596-84-5)	-	0.00946	0.0757	1	Propoxur (114-26-1)	_	0.00946	0.0757	0.2	Action levels are referenced from
DDVP (62-73-7)	-	0.00946	0.0757	0.1	Pyrethrins (8003-34-7)	_	0.00946	0.0757	1	the
Diazinon (333-41-5)	-	0.00946	0.0757	0.2	Pyridaben (96489-71-3)	_	0.00946	0.0757	0.2	State of Arkansas MMJ testing guidelines.
Dimethoate (60-51-5)	-	0.00946	0.0757	0.2	Spinosad (168316-95-8)	_	0.00946	0.0757	0.2	guidennes.
Ethoprophos (13194-48-4)	-	0.00946	0.0757	0.2	Spiromesifen (283594-90-1)	-	0.00946	0.0757	0.2	A value of "-" for the action level means that analyte is not
Etofenprox (80844-07-1)	-	0.00946	0.0757	0.4	(283394-90-1) Spirotetramat					currently regulated by the regulations referenced above.
Etoxazole (153233-91-1)	-	0.00946	0.0757	0.2	(203313-25-1)	-	0.00946	0.0757	0.2	legulations referenced above.
Fenoxycarb (72490-01-8)	-	0.00946	0.0757	0.2	Spiroxamine		0.00946	0.0757	0.4	<i>Disclaimer:</i> This information is provided as a service and makes
(E)-Fenpyroximate (134098-61-6)	-	0.00946	0.0757	0.4	(118134-30-8) Tebuconazole	-				no claims of efficacy and/or safety of this product. Results are
Fipronil (120068-37-3)	-	0.00946	0.0757	0.4	(80443-41-0)	-	0.00946	0.0757	0.4	applicable only for the sample(s)
Flonicamid (158062-67-0)	-	0.00946	0.0757	1	Thiacloprid	_	0.00946	0.0757	0.2	analyzed and for the specific analysis conducted. This report is
Fludioxinil (131341-86-1)	-	0.00946	0.0757	0.4	(111988-49-9)					for informational purposes only
Hexythiazox (78587-05-0)	-	0.00946	0.0757	1	Thiamethoxam (153719-23-4)	-	0.00946	0.0757	0.2	and should not be used to
Imazalil (35554-44-0)	-	0.00946	0.0757	0.2	Trifloxystrobin		0.000.45	0.0775	0.0	diagnose, treat, or prevent any medical-related symptoms. The
Imidacloprid (138261-41-3)	-	0.00946	0.0757	0.4	(141517-21-7)		0.00946	0.0757	0.2	statements and results herein have not been approved and/or endorsed by the FDA.

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	<u>Synonym(s)</u>	Pesticide	<u>Synonym(s)</u>	Pesticide	<u>Synonym(s)</u>
Cyfluthrin	Baythroid	Myclobutanil	Systhane	Propiconazole	Tilt
DDVP	Dichlorvos	Naled	Dibrom	Propoxur	Baygon
Ethoprophos	Prophos	Phosmet	Imidan		



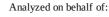
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License: ADH 113	Date Received: 10/31/2023		
Cultivar (Strain) or Sample	<b>Date Completed:</b> 11/01/2023		

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

Analysis Date/T Analysis Date/T Analyst: KF	<b>ime:</b> 10/31/2023 1 <b>ime: -</b> (DMA)	709 (ICP/OES)	<b>Method:</b> ICP/MS <b>Instrument:</b> Agilent 7500ce		<b>Deviations from SOP:</b> None
<u>Heavy Metal</u>	<u>Result</u> (µg/kg)	<u>LOD</u> (µg/kg)	<u>LOQ</u> (µg/kg)	<u>Action Level</u> (µg/kg)	
Arsenic (As)	-	57.5	91.1	200	
Cadmium (Cd)	-	57.5	91.1	200	
Lead (Pb)	-	57.5	91.1	500	
Mercury (Hg)	-	57.5	91.1	100	CURCHANES BURGUMANES BURGUMANES BURGUMANES BURGUMANES BURGUMANES BURGUMANES BURGUMANES

*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

#### <u>Color Key</u>



"DET" detected less than LOQ

"-" not detected above LOD

Action levels for heavy metals are referenced from the State of Arkansas MMJ testing guidelines.

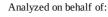
*Disclaimer:* This information is provided as a service and makes no claims of efficacy and/or safety of this product. Results are applicable only for the sample(s) analyzed and for the specific analysis conducted. This report is for informational purposes only and should not be used to diagnose, treat,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













Testing Location:	Customer ID: 2168	Sample ID: SA36325	Sample Type: Primary
Arkansas	<b>River Valley Relief MIPS</b>	Lot Number:	Matrix: Edible
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13222435363	Mass: 10pcs
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 10/30/2023
License: ADA 05_H273 License: 00065C P20231023WAT14			Date Received: 10/31/2023
Cultivar (Strain) or Sample	<b>Date Completed:</b> 11/01/2023		

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

Analysis Date/Time: 11/01/202 Analyst: PW		d: Hardy Diagnostics CompactDry ment: Thermo Incubator	<b>Deviations from SOP:</b> None
Bacteria/Microbe	<u>Result</u> (CFU/g)	<u>Action Level</u> (CFU/g)	
Aerobic Plate Count	NT	-	
Coliforms, Total	Absent	1	
Escherichia Coli (E. Coli)	Absent	100	
Mold/Yeast	NT	-	MA I E
Pseudomonas aeruginosa	NT	-	
Salmonella spp.	NT	-	Ual miles Sourcements Sourcement
Staphylococcus aureus	NT	-	Avi arminated

*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





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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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