



### SUMMARY OF ANALYSIS (SAMPLE ID: SA35448)

Testing Location:	Customer ID: 2168	<b>Order ID:</b> OR10497	Sample Type: Primary
Arkansas	<b>River Valley Relief MIPS</b>	Lot Number:	Matrix: Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13247975796	Mass: 4g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 06/19/2023
License: ADH 113	License: 00065C	E20230612USKLD01	Date Received: 06/20/2023
Cultivar (Strain) or Sample D	Date Completed: 06/21/2023		

\*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

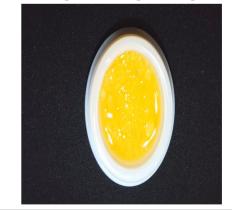
Moisture content/water activity action levels are referenced from the State of Arkansas MMJ testing guidelines.

Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

<u>Cannabinoids (Top 3)</u>	<u>(%)</u>	<u>mg/g</u>
THCA	83.0	830
CBGA	2.26	22.6
Δ9-ΤΗϹ	2.19	21.9
TOTAL CBD	-	-
TOTAL THC	75.0	750
TOTAL CANNABINOIDS	88.1	881
<u>Terpenes (Top 5)</u>	<u>(%)</u>	<u>µg∕</u> g
<u>Terpenes (Top 5)</u> d-Limonene	<u>(%)</u> 4.01	<b>μg/g</b> 40100
d-Limonene	4.01	40100
d-Limonene β-Myrcene	4.01 2.71	40100 27100
d-Limonene β-Myrcene β-Caryophyllene	4.01 2.71 0.716	40100 27100 7160

PASS/FAIL
PASS
PASS
PASS
PASS

#### Sample Picture Upon Receipt





Scan the QR code to verify results.

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The statements and results herein have not been approved and/or endorsed by the FDA.

Kyle W. Felling, Ph.D. aboratory Directo

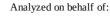
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Testing Location:	Customer ID: 2168	Customer ID: 2168 Order ID: OR10497	
Arkansas	<b>River Valley Relief MIPS</b>	Lot Number:	Matrix: Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13247975796	Mass: 4g
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License: ADH 113	License: 00065C	E20230612USKLD01	Date Received: 06/20/2023
Cultivar (Strain) or Sample	Date Completed: 06/21/2023		

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

Analysis Date/Time: 06/20/2023 1403 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>(mg/ Se</u>	<u>Per</u> erving (mg)	<u>Per</u> <u>Unit</u> (mg)
CBC	ND	ND	0.110	0.256	-	-	-
CBCA	ND	ND	0.341	0.795	-	-	-
CBD	ND	ND	0.774	1.81	-	-	-
CBDA	<loq< td=""><td><loq< td=""><td>0.285</td><td>0.665</td><td>-</td><td>-</td><td>-</td></loq<></td></loq<>	<loq< td=""><td>0.285</td><td>0.665</td><td>-</td><td>-</td><td>-</td></loq<>	0.285	0.665	-	-	-
CBDV	ND	ND	0.124	0.290	-	-	-
CBDVA	ND	ND	0.331	0.773	-	-	-
CBG	0.169	1.69	0.502	1.17	-	1.69	1.69
CBGA	2.26	22.6	0.712	0.840	-	22.6	22.6
CBL	ND	ND	0.580	1.35	-	-	-
CBN	ND	ND	0.267	0.622	-	-	-
CBNA	ND	ND	0.288	0.671	-	-	-
Δ9-ΤΗC	2.19	21.9	0.319	0.745	-	21.9	21.9
Δ8-THC	ND	ND	0.498	1.16	-	-	-
THCA	83.0	830	0.173	0.405	-	830	830
THCV	ND	ND	0.416	0.969	-	-	-
THCVA	0.483	4.83	0.133	0.309	-	4.83	4.83
TOTAL	88.1	881			-	881	881
TOTAL CBC	-	-			-	-	-
TOTAL CBD	-	-			-	-	-
TOTAL CBDV	-	-			-	-	-
TOTAL CBG	2.15	21.5			-	21.5	21.5
TOTAL CBN	-	-			-	-	-
TOTAL THC	75.0	750			-	750	750
TOTAL THCV	0.419	4.19			-	4.19	4.19

*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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1-001) Moisture Content (%): -Water Activity (aw): -



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 = (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.

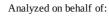
mg/g results are reported as mass component per mass material.











**Deviations from SOP:** 



# **CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35448)**

Testing Location:	Customer ID: 2168	Order ID: OR10497	Sample Type: Primary
Arkansas	River Valley Relief MIPS	Lot Number:	Matrix: Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13247975796	Mass: 4g
Greenbrier, AR 72058	Fort Smith, AR 72903	<b>Production Run:</b>	Date Collected: 06/19/2023
License: ADH 113	License: 00065C	E20230612USKLD01	Date Received: 06/20/2023
Cultivar (Strain) or Sample	Date Completed: 06/21/2023		

#### Analysis Date/Time:06/21/2023 0031 Analyst: KF

TERPENOID PROFILE
Method: GC/MS

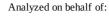
Analyst: KF		Ins	strument: Agilent 7890/5975	None
<u>Terpene</u>	<u>Result</u> (µg/g)	<u>Result</u> (%)		
α-Bisabolol	34.3	0.00343		
Camphene	1570	0.157		
δ-3-Carene	135	0.0135		
β-Caryophyllene	7160	0.716		
Caryophyllene oxide	-	-		
p-Cymene	-	-		
Eucalyptol	16.7	0.00167		
Geraniol	-	-		
Guaiol	-	-		Abbreviations: GC - Gas
α-Humulene	599	0.0599		Chromatography, MS - Mass
Isopulegol	-	-		Spectrometry, RL - Reporting Limit
d-Limonene	40100	4.01		This information is provided as a service and makes no claims of efficacy and/or
Linalool	4920	0.492		safety of this product.
β-Myrcene	27100	2.71		Results are applicable only for the sample(s) analyzed and for the specific
cis-Nerolidol	-	-		analysis conducted.
trans-Nerolidol	-	-		This report is for informational purposes only and should not be used to diagnose,
α-Ocimene	-	-		treat, or prevent any
β-Ocimene	1980	0.198		medical-related symptoms.
α-Pinene	3850	0.385	1 · · · ·	The statements and results herein have not been approved and/or endorsed by
β-Pinene	712	0.0712		the FDA.
α-Terpinene	175	0.0175		
γ-Terpinene	114	0.0114		
Terpinolene	931	0.0931		"-" Not detected above RL.
TOTAL	89400	8.94		Reporting Limit (µg/g): 398

Kyle W. Felling, Ph.D. Laboratory Director











Testing Location:	Customer ID: 2168	Order ID: OR10497	Sample Type: Primary
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Cultivar (Strain) or Sample	Date Completed: 06/21/2023		

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

Analysis Date/Time:	06/20/20	023 1349			Method: HS/GC/MS					s from SOP:
Analyst: KF				I	nstrument: Agilent 78	90/5975		N	lone	
<u>Solvent</u>	<u>Result</u> (µg/g)	<u>LOD</u> (µg/g)	LOQ (µg/g)	<u>Action</u> Level (µg/g)	<u>Solvent</u>	<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)	-	110	220	5000	n-Heptane (142-82-5)	-	110	220	5000	
Acetonitrile (75-5-8)	-	110	220	410	n-Hexane (110-54-3)	-	38.5	77.0	290	
Benzene (71-43-2)	-	1.10	2.20	2	Isobutane (75-28-5)	-	110	220	5000	
n-Butane (106-97-2)	1560	110	220	5000	Isopropanol (67-63-0)	-	110	220	5000	
1-Butanol (71-36-3)	-	110	220	5000	Isopropyl acetate	_	110	220	5000	
2-Butanol (78-92-2)	-	110	220	5000	(108-21-4)		110	220	3000	
2-Butanone (78-93-3)	-	110	220	5000	Isopropyl benzene (98-82-8)	-	11.0	22.0	70	
Cyclohexane (110-82-7)	-	110	220	3880			110	220	3000	<u>Color Key</u>
1,2-Dimethoxyethane		11.0	22.0	100	Methanol (67-56-1)				5000	
(110-71-4) N,N-Dimethylacetamide					2-Methylbutane (78-78-4) Methylene chloride	-	110 110	220 220	600	RESULT < AL RESULT > AL
(127-19-5)	-	110	220	1090	(75-9-2) 2-Methylpentane					
2,2-Dimethylbutane (75-83-2)	-	38.5	77.0	290	(107-83-5)	-	38.5	77.0	290	"DET" detected less than LOQ
2,3-Dimethylbutane	_	38.5	77.0	290	3-Methylpentane (96-10-0)	-	38.5	77.0	290	"-" not detected above
(79-29-8)		50.5	77.0	250	n-Pentane (109-66-0)	-	110	220	5000	LOD
N,N-Dimethylformamide	-	110	220	880	1-Pentanol (71-41-0)	-	110	220	5000	"*" - o,m,p-Xylene and
(68-12-2)					n-Propane (74-98-6)	-	110	220	5000	Ethylbenzene
Dimethylsulfoxide (67-68-5)	-	110	220	5000	1-Propanol (71-23-8)	-	110	220	5000	Action levels are
1,4-Dioxane (123-91-1)	_	110	220	380	Pyridine (110-86-1)	-	38.5	77.0	200	referenced from the State of
Ethanol (64-17-5)	_	110	220	5000	Tetrahydrofuran (109-99-9)	-	110	220	720	Arkansas
2-Ethoxyethanol (110-80-5)	_	38.5	77.0	160	Tetramethylene sulfone	-	38.5	77.0	160	MMJ testing
Ethyl ether (60-29-7)	-	110	220	5000	(126-33-0)		110	220	890	guidelines.
Ethyl acetate (141-78-6)	_	110	220	5000	Toluene (108-88-3)	-				A value of "-"
Ethyl benzene (100-41-4)	-	110	220	2170	o-Xylene (95-47-6) m.p-Xylene (108-38-3 or		110	220	2170	for the action level
Ethylene glycol (107-21-1)	-	110	220	620	106-42-3)	-	110	220	2170	means that analyte
Ethylene oxide (75-21-8)	_	11.0	22.0	50	Xylenes* (1330-20-7)	_	43.3	86.7	2170	is not currently
, , , , , , , , , , , , , , , , , , ,		_			,		-			regulated by the regulations referenced above.
Solvent		Synonym(s			Solvent		ynonym(s)			
Acetonitrile		Methyl Cya			Ethylene glycol		,2-Ethanedio			
1-Butanol		n-Butanol,	Butyl Alco	hol	Isobutane	2	-Methylpropa	ine		
2-Butanol		sec-Butyl a			Isopropanol		-Propanol, IP			
2-Butanone		Methyl eth	yl ketone, N	1EK	Isopropyl Acetate		cetic acid iso		r	
1,2-Dimethoxyethane		Monoglym	e		Methanol	N	fethyl alcoho	1		
2,3-Dimethylbutane		Neohexane			2-Methylbutane	Is	sopentane			
2,3-Dimethylbutane		Diisopropy	/l		Methylene chloride		lichlorometha	ine		
N,N-Dimethylformamide		DMF			2-Methylpentane	Is	sohexane			
Dimethysufoxide		DMSO			1-Pentanol	n	-Amyl alcoho	ol		
2-Ethoxyethanol		Cellosolve	, Ethyl glyc	ol	1-Propanol	Р	ropyl alcohol			
Ethyl ether		Diethyl eth	er, Ether		Tetrahydrofuran	Т	ΉF			
Ethyl acetate		EtOAc			Tetramethylene sulfone	S	ulfolane			
Ethyl benzene		Phenyletha	ne		Xylene	D	imethylbenz	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



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Cultivar (Strain) or Sample	<b>Date Completed:</b> 06/21/2023		

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

Analysis Date/Time: 06/20/2023 1401 Analyst: KF

# Method: LC/MS/MS

## Instrument: Shimadzu LC-8050

<u>Pesticide</u>	<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)	-	0.0479	0.383	0.5	Kresoxim-methyl	_	0.0479	0.383	0.4	
Acephate (30560-19-1)	-	0.0479	0.383	0.4	(143390-89-0)					
Acequinocyl (57960-19-7)	-	0.0479	0.383	2	Malathion (121-75-5)	-	0.0479	0.383	0.2	
Acetamiprid (135410-20-7)	_	0.0479	0.383	0.2	Metalaxyl (57837-19-1) Methiocarb (2032-65-7)	-	0.0479 0.0479	0.383 0.383	0.2 0.2	Color Key
(135410-20-7) Aldicarb (116-06-3)	_	0.0479	0.383	0.4	Methomyl (16752-77-5)	-	0.0479	0.383	0.2	
Azoxystrobin (131860-33-8)	-	0.0479	0.383	0.2	Methyl parathion (298-0-0)	-	0.0479	0.383	0.2	RESULT < AL RESULT > AL
(131000-33-0) Bifenazate (149877-41-8)		0.0479	0.383	0.2	(258-0-0) MGK 264 (113-48-4)		0.0479	0.383	0.2	"DET" detected less than LOQ
Bifenthrin (82657-04-3)	_	0.0479	0.383	0.2	Myclobutanil					
Boscalid (188425-85-6)	_	0.0479	0.383	0.4	(88671-89-0)	-	0.0479	0.383	0.2	"-" not detected above LOD
Carbaryl (63-25-2)	_	0.0479	0.383	0.2	Naled (300-76-5)	-	0.0479	0.383	0.5	LOD
Carbofuran (1563-66-2)	-	0.0479	0.383	0.2	Oxamyl (23135-22-0)	-	0.0479	0.383	1	Permethrins measured as the cumulative residue of the <i>cis</i> - and
Chlorantraniliprole (800008-45-7)	-	0.0479	0.383	0.2	Paclobutrazol (76738-62-0)	-	0.0479	0.383	0.4	<i>trans</i> - permethrin isomers.
Chlorfenapyr					Permethrins (52645-53-1)	-	0.0479	0.383	0.2	Pyrethrins measured as the
(122453-73-0)	-	0.0479	0.383	1	Phosmet (732-11-6)	-	0.0479	0.383	0.2	cumulative residue of the pyrethrin I, cinerin I, and jasmolin
Chlorpyrifos (2921-88-2)	-	0.0479	0.383	0.2	Piperonyl butoxide	_	0.0479	0.383	2	I isomers.
Clofentezine (74115-24-5)	-	0.0479	0.383	0.2	(51-03-6)		0.0470	0.000	0.0	Action levels are referenced from
Cyfluthrin (68359-37-5)	-	0.0479	0.383	1	Prallethrins (2331-36-9)	-	0.0479	0.383	0.2	the
Cypermethrin (52315-07-8)	-	0.0479	0.383	1	Propiconazole (60207-90-1))	-	0.0479	0.383	0.4	State of Arkansas MMJ testing guidelines.
Daminozide (1596-84-5)	-	0.0479	0.383	1	Propoxur (114-26-1)	-	0.0479	0.383	0.2	A value of "-" for the action level
DDVP (62-73-7)	-	0.0479	0.383	0.1	Pyrethrins (8003-34-7)	-	0.0479	0.383	1	means that analyte is not
Diazinon (333-41-5)	-	0.0479	0.383	0.2	Pyridaben (96489-71-3)	-	0.0479	0.383	0.2	currently regulated by the regulations referenced above.
Dimethoate (60-51-5)	-	0.0479	0.383	0.2	Spinosad (168316-95-8)	-	0.0479	0.383	0.2	regulations referenced above.
Ethoprophos (13194-48-4)	-	0.0479	0.383	0.2	Spiromesifen (283594-90-1)	-	0.0479	0.383	0.2	Disclaimer: This information is
Etofenprox (80844-07-1)	-	0.0479	0.383	0.4	Spirotetramat					provided as a service and makes no claims of efficacy and/or safety
Etoxazole (153233-91-1)	-	0.0479	0.383	0.2	(203313-25-1)	-	0.0479	0.383	0.2	of this product. Results are
Fenoxycarb (72490-01-8)	-	0.0479	0.383	0.2	Spiroxamine	_	0.0479	0.383	0.4	applicable only for the sample(s) analyzed and for the specific
(E)-Fenpyroximate (134098-61-6)	-	0.0479	0.383	0.4	(118134-30-8) Tebuconazole		0.0479	0.383	0.4	analysis conducted. This report is for informational purposes only
Fipronil (120068-37-3)	-	0.0479	0.383	0.4	(80443-41-0)		0.0475	0.505	0.4	and should not be used to
Flonicamid (158062-67-0)	-	0.0479	0.383	1	Thiacloprid (111988-49-9)	-	0.0479	0.383	0.2	diagnose, treat, or prevent any medical-related symptoms. The
Fludioxinil (131341-86-1)	-	0.0479	0.383	0.4	(111988-49-9) Thiamethoxam					statements and results herein have
Hexythiazox (78587-05-0)	-	0.0479	0.383	1	(153719-23-4)	-	0.0479	0.383	0.2	not been approved and/or endorsed by the FDA.
Imazalil (35554-44-0)	-	0.0479	0.383	0.2	Trifloxystrobin		0.0479	0.383	0.2	endoised by the FDA.
Imidacloprid (138261-41-3)	-	0.0479	0.383	0.4	(141517-21-7)		0.04/9	0.383	0.2	

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



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License: ADH 113	License: 00065C	E20230612USKLD01	Date Received: 06/20/2023
Cultivar (Strain) or Sample	Date Completed: 06/21/2023		

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

Analysis Date/Time: 06/20/2023 1645 (ICP/OES) Analysis Date/Time: - (DMA) Analyst: KF			-	thod: ICP/MS trument: 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)	-	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

<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.

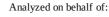
*Disclaimer:* This information is provided as a service and makes no claims of efficacy and/or safety of this product. Results are applicable only for the sample(s) analyzed and for the specific analysis conducted. This report is for informational purposes only and should not be used to diagnose, treat, 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: SA35448	Sample Type: Primary
Arkansas	<b>River Valley Relief MIPS</b>	Lot Number:	Matrix: Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13247975796	Mass: 4g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 06/19/2023
License: ADA 05_H273	License: 00065C	E20230612USKLD01	Date Received: 06/20/2023
Cultivar (Strain) or Sample D	Date Completed: 06/21/2023		

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

Analysis Date/Time: 06/21/20 Analyst: PW		: Hardy Diagnostics CompactDry <b>ent:</b> 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	-	
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





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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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