



SUMMARY OF ANALYSIS (SAMPLE ID: SA40185)

Testing Location:	Customer ID: 2168	Order ID: OR11435	Sample Type: Primary
Arkansas	River Valley Relief MIPS	Lot Number:	Matrix: Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13240611595	Mass: 8ea
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 02/10/2025
License: ADH 113	License: 00065C	E20250207MSDV01	Date Received: 02/10/2025
Cultivar (Strain) or Sample De	Date Completed:02/12/2025		

*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.

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.

Cannabinoids (Top 3)	<u>(%)</u>	<u>mg</u> /g
Δ9-THC	76.5	765
THCA	5.41	54.1
CBGA	0.304	3.04
TOTAL CBD	0.000	0.000
TOTAL THC	81.2	812
TOTAL CANNABINOIDS	82.9	829
<u>Terpenes (Top 5)</u>	<u>(%)</u>	<u>µg/g</u>
<u>Terpenes (Top 5)</u> β-Myrcene	<u>(%)</u> 1.31	<mark>µg/g</mark> 13100
β-Myrcene	1.31	13100
β-Myrcene β-Caryophyllene	1.31 1.11	13100 11100
β-Myrcene β-Caryophyllene d-Limonene	1.31 1.11 0.578	13100 11100 5780

Contaminants	PASS/FAIL
Heavy Metals:	PASS
Microbiology:	PASS
Pesticides:	PASS
Residual Solvents:	PASS





Scan the QR code to verify results.

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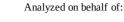
REPORT OF LABORATORY ANALYSIS

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Cultivar (Strain) or Sample De	Date Completed:02/12/2025		

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

Analysis Date/Time: 02/11/2025 1335 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> (mg/ mL)	<u>Per</u> Serving (mg)	<u>Per</u> <u>Unit</u> (mg)
CBC	ND	ND	0.107	0.250	-	0.000	0.000
CBCA	ND	ND	0.332	0.775	-	0.000	0.000
CBD	DET	DET	0.754	1.76	-	0.000	0.000
CBDA	ND	ND	0.278	0.648	-	0.000	0.000
CBDV	ND	ND	0.121	0.282	-	0.000	0.000
CBDVA	ND	ND	0.323	0.753	-	0.000	0.000
CBG	0.236	2.36	0.490	1.14	-	2.36	2.36
CBGA	0.304	3.04	0.694	0.819	-	3.04	3.04
CBL	ND	ND	0.566	1.32	-	0.000	0.000
CBN	0.158	1.58	0.260	0.607	-	1.58	1.58
CBNA	ND	ND	0.280	0.654	-	0.000	0.000
CBT	ND	ND	0.407	0.949	-	0.000	0.000
Δ9-ΤΗC	76.5	765	0.311	0.726	-	765	765
$\Delta 8$ -THC	ND	ND	0.486	1.13	-	0.000	0.000
THCA	5.41	54.1	0.169	0.395	-	54.1	54.1
THCV	0.302	3.02	0.405	0.945	-	3.02	3.02
THCVA	ND	ND	0.129	0.301	-	0.000	0.000
TOTAL	82.9	829				829	829
TOTAL CBC	0.000	0.000				0.000	0.000
TOTAL CBD	0.000	0.000			-	0.000	0.000
TOTAL CBDV	0.000	0.000			-	0.000	0.000
TOTAL CBG	0.503	5.03			-	5.03	5.03
TOTAL CBN	0.158	1.58			-	1.58	1.58
TOTAL THC	81.2	812			-	812	812
TOTAL THCV	0.302	3.02			-	3.02	3.02

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



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

"-" 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.

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) + Δ 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.

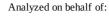


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Arkansas	River Valley Relief MIPS	Lot Number:	Matrix: Concentrate
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Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 02/10/2025
License: ADH 113	License: 00065C	E20250207MSDV01	Date Received: 02/10/2025
Cultivar (Strain) or Sample	Date Completed:02/12/2025		

Analysis Date/Time:02/11/2025 1507 Analyst: KF

TERPENOID PROFILE

Method: GC/MS

Analyst: KF		Ins	strument: Agilent 7890/5975
Terpene	<u>Result</u> (µg/g)	<u>Result</u> (%)	
α-Bisabolol	1120	0.112	
Camphene	461	0.0461	
δ-3-Carene	960	0.0960	
β-Caryophyllene	11100	1.11	
Caryophyllene oxide	<loq< td=""><td>-</td><td>A star</td></loq<>	-	A star
p-Cymene	168	0.0168	
Eucalyptol	123	0.0123	9/19
Geraniol	1190	0.119	
Guaiol	ND	-	41.1
α-Humulene	3610	0.361	Abbre
Isopulegol	273	0.0273	Spectr
d-Limonene	5780	0.578	Abbre LOD
Linalool	2290	0.229	of Qu
β-Myrcene	13100	1.31	This in and m
cis-Nerolidol	ND	-	safety
trans-Nerolidol	ND	-	Result sampl
α-Ocimene	200	0.0200	analys
β-Ocimene	302	0.0302	This r
α-Pinene	5760	0.576	only a treat, o
β-Pinene	2930	0.293	medic
α-Terpinene	298	0.0298	The st not be
γ-Terpinene	222	0.0222	the FI
Terpinolene	1670	0.167	1
TOTAL	51600	5.16	

Deviations from SOP: None



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): 46.9

"-" Not detected above LOD.













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License: ADH 113	License: 00065C	E20250207MSDV01	Date Received: 02/10/2025
Cultivar (Strain) or Sample	Date Completed:02/12/2025		

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

Analysis Date/Time: 02/10/2025 2220 Method: HS/GC/MS						Deviations from SOP:				
Analyst: KF				I	nstrument: Agilent 78	90/5975	75 None			
<u>Solvent</u>	<u>Result</u> (µg/g)	<u>LOD</u> (µg/g)	<u>LOQ</u> (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)	-	37.7	75.4	5000	n-Heptane (142-82-5)	-	37.7	75.4	5000	SAMAN D
Acetonitrile (75-5-8)	-	37.7	75.4	410	n-Hexane (110-54-3)	-	13.2	26.4	290	A M DE DY D - W
Benzene (71-43-2)	-	0.377	0.754	2	Isobutane (75-28-5)	-	37.7	75.4	5000	
n-Butane (106-97-2)	-	37.7	75.4	5000	Isopropanol (67-63-0)	-	37.7	75.4	5000	
1-Butanol (71-36-3)	-	37.7	75.4	5000	Isopropyl acetate	_	37.7	75.4	5000	
2-Butanol (78-92-2)	-	37.7	75.4	5000	(108-21-4)		0.11	,	5000	
2-Butanone (78-93-3)	-	37.7	75.4	5000	Isopropyl benzene (98-82-8)	-	3.77	7.54	70	20
Cyclohexane (110-82-7)	-	37.7	75.4	3880	Methanol (67-56-1)		37.7	75.4	3000	<u>Color Key</u>
1,2-Dimethoxyethane (110-71-4)	-	3.77	7.54	100	2-Methylbutane (78-78-4)	-	37.7	75.4	5000	RESULT < AL
N,N-Dimethylacetamide (127-19-5)	-	37.7	75.4	1090	Methylene chloride (75-9-2)	-	37.7	75.4	600	RESULT > AL
2,2-Dimethylbutane (75-83-2)	-	13.2	26.4	290	2-Methylpentane (107-83-5)	-	13.2	26.4	290	"-" not detected above 1/2 Action Level
2,3-Dimethylbutane		13.2	26.4	290	3-Methylpentane (96-10-0)	-	13.2	26.4	290	
(79-29-8)		13.2	20.4	290	n-Pentane (109-66-0)	-	37.7	75.4	5000	"*" - o,m,p-Xylene and Ethylbenzene
N,N-Dimethylformamide (68-12-2)	-	37.7	75.4	880	1-Pentanol (71-41-0) n-Propane (74-98-6)	-	37.7 37.7	75.4 75.4	5000 5000	5
Dimethylsulfoxide		37.7	75.4	5000	1-Propanol (71-23-8)	-	37.7	75.4	5000	Action levels are referenced from the State of
(67-68-5)	-	57.7	/ 5.4		Pyridine (110-86-1)		13.2	26.4	200	Arkansas
1,4-Dioxane (123-91-1)	-	37.7	75.4	380	Tetrahydrofuran (109-99-9)		37.7	75.4	720	MMJ testing
Ethanol (64-17-5)	-	37.7	75.4	5000	Tetramethylene sulfone					guidelines.
2-Ethoxyethanol (110-80-5)	-	13.2	26.4	160	(126-33-0)	-	13.2	26.4	160	A value of "-"
Ethyl ether (60-29-7)	-	37.7	75.4	5000	Toluene (108-88-3)	-	37.7	75.4	890	for the action level
Ethyl acetate (141-78-6)	-	37.7	75.4	5000	o-Xylene (95-47-6)	-	37.7	75.4	2170	means that analyte
Ethyl benzene (100-41-4)	-	37.7	75.4	2170	m,p-Xylene (108-38-3 or	_	37.7	75.4	2170	is not currently
Ethylene glycol (107-21-1)	-	37.7	75.4	620	106-42-3)					regulated by the regulations referenced above.
Ethylene oxide (75-21-8)	-	3.77	7.54	50	Xylenes* (1330-20-7)	-	43.3	86.7	2170	regulations referenced above.
<u>Solvent</u>		Synonym(s	5)		<u>Solvent</u>	S	ynonym(s)			
Acetonitrile		Methyl Cya	nide, ACN		Ethylene glycol	1,	,2-Ethanediol			
1-Butanol		n-Butanol,	Butyl Alco	hol	Isobutane	2-	-Methylpropa	ine		
2-Butanol		sec-Butyl a	lcohol		Isopropanol	2-	-Propanol, IP/	A		
2-Butanone		Methyl ethy	yl ketone, N	1EK	Isopropyl Acetate	А	cetic acid iso	propyl ester		
1,2-Dimethoxyethane		Monoglym	e		Methanol	Μ	fethyl alcoho	l		
2,3-Dimethylbutane		Neohexane			2-Methylbutane		sopentane			
2,3-Dimethylbutane		Diisopropy	'l		Methylene chloride	D	ichlorometha	ne		
N,N-Dimethylformamide		DMF			2-Methylpentane	Is	sohexane			
Dimethysufoxide		DMSO			1-Pentanol	n·	-Amyl alcoho	1		
2-Ethoxyethanol		Cellosolve,	Ethyl glyc	ol	1-Propanol	Pi	ropyl alcohol			
Ethyl ether		Diethyl eth	er, Ether		Tetrahydrofuran	Т	ΉF			

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

Sulfolane

Dimethylbenzene

Tetramethylene sulfone

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Xylene



EtOAc

Phenylethane

Ethyl acetate

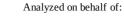
Ethyl benzene

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Deviations from SOP:

None



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA40185)

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Cultivar (Strain) or Sample	Date Completed:02/12/2025		

PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 02/11/2025 1456 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> <u>Level</u> (µg/g)	<u>Pesticide</u>	<u>Result</u> (µg/g)	<u>LOD</u> (µg/g)	<u>LOQ</u> (µg/g)	<u>Action</u> <u>Level</u> (µg/g)	A Pre a
Abamectin (71751-41-2)	_	0.0468	0.374	0.5	Kresoxim-methyl					ALL HER P
Acephate (30560-19-1)	_	0.0468	0.374	0.4	(143390-89-0)	-	0.0468	0.374	0.4	ALL AND AN AN
Acequinocyl (57960-19-7)	_	0.0468	0.374	2	Malathion (121-75-5)	-	0.0468	0.374	0.2	OTHER H JA
Acetamiprid					Metalaxyl (57837-19-1)	-	0.0468	0.374	0.2	
(135410-20-7)	-	0.0468	0.374	0.2	Methiocarb (2032-65-7)	-	0.0468	0.374	0.2	<u>Color Key</u>
Aldicarb (116-06-3)	-	0.0468	0.374	0.4	Methomyl (16752-77-5)	-	0.0468	0.374	0.4	RESULT < AL
Azoxystrobin (131860-33-8)	-	0.0468	0.374	0.2	Methyl parathion (298-0-0)	-	0.0468	0.374	0.2	RESULT > AL
Bifenazate (149877-41-8)	-	0.0468	0.374	0.2	MGK 264 (113-48-4)	-	0.0468	0.374	0.2	"DET" detected less than LOQ
Bifenthrin (82657-04-3)	-	0.0468	0.374	0.2	Myclobutanil	_	0.0468	0.374	0.2	"-" not detected above
Boscalid (188425-85-6)	-	0.0468	0.374	0.4	(88671-89-0)					LOD
Carbaryl (63-25-2)	-	0.0468	0.374	0.2	Naled (300-76-5)	-	0.0468	0.374	0.5	Permethrins measured as the
Carbofuran (1563-66-2)	-	0.0468	0.374	0.2	Oxamyl (23135-22-0)	-	0.0468	0.374	1	cumulative residue of the <i>cis</i> - and
Chlorantraniliprole (800008-45-7)	-	0.0468	0.374	0.2	Paclobutrazol (76738-62-0)	-	0.0468	0.374	0.4	<i>trans</i> - permethrin isomers.
Chlorfenapyr	_	0.0468	0.374	1	Permethrins (52645-53-1)	-	0.0468	0.374	0.2	Pyrethrins measured as the cumulative residue of the
(122453-73-0)	-	0.0466	0.374	1	Phosmet (732-11-6)	-	0.0468	0.374	0.2	pyrethrin I, cinerin I, and jasmolin
Chlorpyrifos (2921-88-2)	-	0.0468	0.374	0.2	Piperonyl butoxide	_	0.0468	0.374	2	I isomers.
Clofentezine (74115-24-5)	-	0.0468	0.374	0.2	(51-03-6)		0.0468	0.374	0.2	Action levels are
Cyfluthrin (68359-37-5)	-	0.0468	0.374	1	Prallethrins (2331-36-9)	-	0.0468	0.374	0.2	referenced from the State of
Cypermethrin (52315-07-8)	-	0.0468	0.374	1	Propiconazole (60207-90-1))	-	0.0468	0.374	0.4	Arkansas MMJ testing
Daminozide (1596-84-5)	-	0.0468	0.374	1	Propoxur (114-26-1)	-	0.0468	0.374	0.2	guidelines.
DDVP (62-73-7)	-	0.0468	0.374	0.1	Pyrethrins (8003-34-7)	-	0.0468	0.374	1	A value of "-" for the action level
Diazinon (333-41-5)	-	0.0468	0.374	0.2	Pyridaben (96489-71-3)	-	0.0468	0.374	0.2	means that analyte is not currently regulated by the
Dimethoate (60-51-5)	-	0.0468	0.374	0.2	Spinosad (168316-95-8)	-	0.0468	0.374	0.2	regulations referenced above.
Ethoprophos (13194-48-4)	-	0.0468	0.374	0.2	Spiromesifen (283594-90-1)	-	0.0468	0.374	0.2	
Etofenprox (80844-07-1)	-	0.0468	0.374	0.4	Spirotetramat					<i>Disclaimer</i> : This information is provided as a service and makes
Etoxazole (153233-91-1)	-	0.0468	0.374	0.2	(203313-25-1)	-	0.0468	0.374	0.2	no claims of efficacy and/or safety
Fenoxycarb (72490-01-8)	-	0.0468	0.374	0.2	Spiroxamine	_	0.0468	0.374	0.4	of this product. Results are applicable only for the sample(s)
(E)-Fenpyroximate (134098-61-6)	-	0.0468	0.374	0.4	(118134-30-8) Tebuconazole		0.0468	0.374	0.4	analyzed and for the specific analysis conducted. This report is
Fipronil (120068-37-3)	-	0.0468	0.374	0.4	(80443-41-0)		0.0400	0.374	0.4	for informational purposes only
Flonicamid (158062-67-0)	-	0.0468	0.374	1	Thiacloprid	_	0.0468	0.374	0.2	and should not be used to diagnose, treat, or prevent any
Fludioxinil (131341-86-1)	-	0.0468	0.374	0.4	(111988-49-9)					medical-related symptoms. The
Hexythiazox (78587-05-0)	-	0.0468	0.374	1	Thiamethoxam (153719-23-4)	-	0.0468	0.374	0.2	statements and results herein have
Imazalil (35554-44-0)	-	0.0468	0.374	0.2	Trifloxystrobin		0.0400	0.054	0.0	not been approved and/or endorsed by the FDA.
Imidacloprid (138261-41-3)	-	0.0468	0.374	0.4	(141517-21-7)	-	0.0468	0.374	0.2	v

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

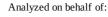


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Testing Location:	Customer ID: 2168	Order ID: OR11435	Sample Type: Primary
Arkansas	River Valley Relief MIPS	Lot Number:	Matrix: Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13240611595	Mass: 8ea
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 02/10/2025
License: ADH 113	License: 00065C	E20250207MSDV01	Date Received: 02/10/2025
Cultivar (Strain) or Sample	Date Completed:02/12/2025		

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

Analysis Date/T	`ime: 02/11/2025 2	2010	Method: ICP/MS Instrument: Agilent 7500ce		Deviations from SOP: None
Analyst: KF				-	
<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)	-	59.6	94.4	200	
Cadmium (Cd)	-	59.6	94.4	200	A BALLANK D
Lead (Pb)	-	59.6	94.4	500	
Mercury (Hg)	-	59.6	94.4	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.

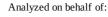
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Testing Location:	Customer ID: 2168	Sample ID: SA40185	Sample Type: Primary
Arkansas	River Valley Relief MIPS	Lot Number:	Matrix: Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13240611595	Mass: 8ea
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 02/10/2025
License: ADA 05_H273	License: 00065C	E20250207MSDV01	Date Received: 02/10/2025
Cultivar (Strain) or Sample D	Date Completed:02/12/2025		

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 02/11/20 Analyst: PW		ethod: Hardy Diagnostics CompactDry strument: Thermo Incubator	Deviations from SOP: None
Bacteria/Microbe	<u>Result</u> (CFU/g)	<u>Action Level</u> (CFU/g)	
Aerobic Plate Count	NT	-	
Coliforms, Total	Absent	1	SUMANK O
Escherichia Coli (E. Coli)	Absent	100	
Mold/Yeast	NT	-	
Pseudomonas aeruginosa	NT	-	
Salmonella spp.	NT	-	The second second second
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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