



SUMMARY OF ANALYSIS (SAMPLE ID: SA40652)

Testing Location:	Customer ID: 2168	Order ID: OR11519	Sample Type: Primary
Arkansas	River Valley Relief MIPS	Lot Number:	Matrix: Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13243879479	Mass: 4ea
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 03/28/2025
License: ADH 113	License: 00065C	E20250325BZLB03	Date Received: 03/28/2025
Cultivar (Strain) or Sample Do	Date Completed:03/31/2025		

*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.

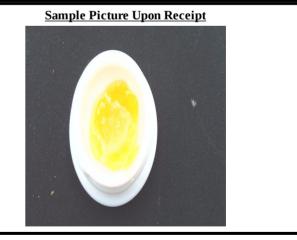
Moisture Content (%)	Water Activity (aw)	PASS/FAIL
Not Tested	Not Tested	PASS

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.

	(0/)	,
<u>Cannabinoids (Top 3)</u>	<u>(%)</u>	<u>mg/g</u>
THCA	74.8	748
CBGA	2.52	25.2
Δ 9 -THC	2.17	21.7
TOTAL CBD	0.114	1.14
TOTAL THC	67.8	678
TOTAL CANNABINOIDS	80.2	802
<u>Terpenes (Top 5)</u>	<u>(%)</u>	<u>µg∕</u> g
<u>Terpenes (Top 5)</u> β-Caryophyllene	(%) 4.63	µg/g 46300
β-Caryophyllene	4.63	46300
β-Caryophyllene β-Myrcene	4.63 2.24	46300 22400
β-Caryophyllene β-Myrcene d-Limonene	4.63 2.24 2.17	46300 22400 21700

PASS/FAIL
PASS
PASS
PASS
PASS





Scan the QR code to verify results.

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REPORT OF LABORATORY ANALYSIS

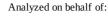
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Cultivar (Strain) or Sample	Date Completed:03/31/2025		

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

Analysis Date/Time: 03/31/2025 1534 Analyst: PW Method: HPLC/DAD Instrument: Agilent 1100

<u>Cannabinoid</u>	<u>Result</u> (%)	<u>Result</u> (mg/g)	LOD (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	0.0928	0.217	-	0.000	0.000
CBCA	ND	ND	0.288	0.673	-	0.000	0.000
CBD	ND	ND	0.655	1.53	-	0.000	0.000
CBDA	0.130	1.30	0.241	0.563	-	1.30	1.30
CBDV	ND	ND	0.105	0.245	-	0.000	0.000
CBDVA	ND	ND	0.280	0.654	-	0.000	0.000
CBG	0.184	1.84	0.425	0.993	-	1.84	1.84
CBGA	2.52	25.2	0.603	0.711	-	25.2	25.2
CBL	ND	ND	0.491	1.15	-	0.000	0.000
CBN	ND	ND	0.226	0.527	-	0.000	0.000
CBNA	ND	ND	0.243	0.568	-	0.000	0.000
Δ9-ΤΗC	2.17	21.7	0.270	0.630	-	21.7	21.7
$\Delta 8$ -THC	ND	ND	0.422	0.984	-	0.000	0.000
THCA	74.8	748	0.147	0.343	-	748	748
THCV	ND	ND	0.352	0.820	-	0.000	0.000
THCVA	0.394	3.94	0.112	0.261	-	3.94	3.94
TOTAL	80.2	802				802	802
TOTAL CBC	0.000	0.000				0.000	0.000
TOTAL CBD	0.114	1.14			-	1.14	1.14
TOTAL CBDV	0.000	0.000			-	0.000	0.000
TOTAL CBG	2.40	24.0			-	24.0	24.0
TOTAL CBN	0.000	0.000			-	0.000	0.000
TOTAL THC	67.8	678			-	678	678
TOTAL THCV	0.342	3.42			-	3.42	3.42

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.

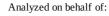
mg/g results are reported as mass component per mass material.

W. Felling, Ph.D. ory Dire











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Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 03/28/2025
License: ADH 113	License: 00065C	E20250325BZLB03	Date Received: 03/28/2025
Cultivar (Strain) or Sample	Date Completed:03/31/2025		

Analysis Date/Time:03/31/2025 1038 Analyst: KF

TERPENOID PROFILE

Method: GC/MS Instrument: Agilent 7890/5975

Deviations from SOP: None

Analyst: KF		Instrument: Agilent 7890/59				
<u>Terpene</u>	<u>Result</u> (µg/g)	<u>Result</u> (%)				
α-Bisabolol	720	0.0720				
Camphene	467	0.0467				
δ-3-Carene	<loq< td=""><td>-</td><td></td></loq<>	-				
β-Caryophyllene	46300	4.63				
Caryophyllene oxide	235	0.0235				
p-Cymene	113	0.0113				
Eucalyptol	<loq< td=""><td>-</td><td></td></loq<>	-				
Geraniol	<loq< td=""><td>-</td><td></td></loq<>	-				
Guaiol	1550	0.155				
α-Humulene	8660	0.866				
Isopulegol	ND	-				
d-Limonene	21700	2.17				
Linalool	8290	0.829				
β-Myrcene	22400	2.24				
cis-Nerolidol	ND	-				
trans-Nerolidol	2630	0.263				
α-Ocimene	294	0.0294				
β-Ocimene	951	0.0951				
α-Pinene	1660	0.166				
β-Pinene	2990	0.299				
α-Terpinene	<loq< td=""><td>-</td><td></td></loq<>	-				
γ-Terpinene	<loq< td=""><td>-</td><td></td></loq<>	-				
Terpinolene	356	0.0356				
TOTAL	119000	11.9				



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): 40.7

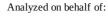
"-" Not detected above LOD.













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License: ADH 113	License: 00065C	E20250325BZLB03	Date Received: 03/28/2025
Cultivar (Strain) or Sample	Date Completed:03/31/2025		

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

Analysis Date/Time:	Analysis Date/Time: 03/29/2025 1545 Method: H		Method: HS/GC/MS	S/GC/MS Devi			eviations	eviations from SOP:		
Analyst: KF				I	nstrument: Agilent 78	90/5975		Ν	one	
<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)	-	33.7	67.5	5000	n-Heptane (142-82-5)	-	33.7	67.5	5000	
Acetonitrile (75-5-8)	-	33.7	67.5	410	n-Hexane (110-54-3)	-	11.8	23.6	290	A
Benzene (71-43-2)	-	0.337	0.675	2	Isobutane (75-28-5)	-	33.7	67.5	5000	
n-Butane (106-97-2)	-	33.7	67.5	5000	Isopropanol (67-63-0)	-	33.7	67.5	5000	
1-Butanol (71-36-3)	-	33.7	67.5	5000	Isopropyl acetate	_	33.7	67.5	5000	
2-Butanol (78-92-2)	-	33.7	67.5	5000	(108-21-4)		55.7	07.5	5000	
2-Butanone (78-93-3)	-	33.7	67.5	5000	Isopropyl benzene (98-82-8)	-	3.37	6.75	70	
Cyclohexane (110-82-7)	-	33.7	67.5	3880	(56-62-6) Methanol (67-56-1)		33.7	67.5	3000	Color Key
1,2-Dimethoxyethane (110-71-4)	-	3.37	6.75	100	2-Methylbutane (78-78-4)	-	33.7	67.5	5000	RESULT < AL
N,N-Dimethylacetamide (127-19-5)	-	33.7	67.5	1090	Methylene chloride (75-9-2)	-	33.7	67.5	600	RESULT > AL
2,2-Dimethylbutane (75-83-2)	-	11.8	23.6	290	2-Methylpentane (107-83-5)	-	11.8	23.6	290	"-" not detected above 1/2 Action Level
2,3-Dimethylbutane		11.0	22.0	200	3-Methylpentane (96-10-0)	-	11.8	23.6	290	
(79-29-8)	-	11.8	23.6	290	n-Pentane (109-66-0)	-	33.7	67.5	5000	"*" - o,m,p-Xylene and
N,N-Dimethylformamide (68-12-2)	-	33.7	67.5	880	1-Pentanol (71-41-0) n-Propane (74-98-6)	-	33.7 33.7	67.5 67.5	5000 5000	Ethylbenzene Action levels are
Dimethylsulfoxide		33.7	67.5	5000	1-Propanol (71-23-8)	-	33.7	67.5	5000	referenced from the State of
(67-68-5)	-	33./	07.5	5000	Pyridine (110-86-1)		11.8	23.6	200	Arkansas
1,4-Dioxane (123-91-1)	-	33.7	67.5	380	Tetrahydrofuran (109-99-9)		33.7	67.5	720	MMJ testing
Ethanol (64-17-5)	-	33.7	67.5	5000	Tetramethylene sulfone					guidelines.
2-Ethoxyethanol (110-80-5)	-	11.8	23.6	160	(126-33-0)	-	11.8	23.6	160	A value of "-"
Ethyl ether (60-29-7)	-	33.7	67.5	5000	Toluene (108-88-3)	-	33.7	67.5	890	for the action level
Ethyl acetate (141-78-6)	-	33.7	67.5	5000	o-Xylene (95-47-6)	-	33.7	67.5	2170	means that analyte
Ethyl benzene (100-41-4)	-	33.7	67.5	2170	m,p-Xylene (108-38-3 or	_	33.7	67.5	2170	is not currently
Ethylene glycol (107-21-1)	-	33.7	67.5	620	106-42-3)					regulated by the regulations referenced above.
Ethylene oxide (75-21-8)	-	3.37	6.75	50	Xylenes* (1330-20-7)	-	43.3	86.7	2170	
<u>Solvent</u>		Synonym(s	5)		<u>Solvent</u>	Sy	ynonym(s)			
Acetonitrile		Methyl Cya	nide, ACN		Ethylene glycol	1,	2-Ethanediol			
1-Butanol		n-Butanol,	Butyl Alco	hol	Isobutane	2-	-Methylpropa	ne		
2-Butanol		sec-Butyl a	lcohol		Isopropanol	2-	Propanol, IP	4		
2-Butanone		Methyl ethy	yl ketone, N	⁄IEK	Isopropyl Acetate	A	cetic acid iso	propyl ester	r	
1,2-Dimethoxyethane		Monoglym	e		Methanol	Μ	lethyl alcoho	l		
2,3-Dimethylbutane		Neohexane			2-Methylbutane	Is	opentane			
2,3-Dimethylbutane		Diisopropy	rl		Methylene chloride	Di	ichlorometha	ne		
N,N-Dimethylformamide		DMF			2-Methylpentane	Is	ohexane			
Dimethysufoxide		DMSO			1-Pentanol	n-	-Amyl alcoho	1		
2-Ethoxyethanol		Cellosolve,	Ethyl glyc	ol	1-Propanol	Pr	ropyl alcohol			
Ethyl ether		Diethyl eth	er, Ether		Tetrahydrofuran	TI	HF			

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

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Xylene

Tetramethylene sulfone



EtOAc

Phenylethane

Ethyl acetate

Ethyl benzene

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Deviations from SOP:

None



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA40652)

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PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 03/31/2025 0827 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> <u>Level</u> (µg/g)	
Abamectin (71751-41-2)	-	0.0407	0.326	0.5	Kresoxim-methyl	_	0.0407	0.326	0.4	
Acephate (30560-19-1)	-	0.0407	0.326	0.4	(143390-89-0)					
Acequinocyl (57960-19-7)	-	0.0407	0.326	2	Malathion (121-75-5)	-	0.0407	0.326	0.2	
Acetamiprid (135410-20-7)	-	0.0407	0.326	0.2	Metalaxyl (57837-19-1) Methiocarb (2032-65-7)	-	0.0407 0.0407	0.326 0.326	0.2 0.2	<u>Color Key</u>
Aldicarb (116-06-3)	-	0.0407	0.326	0.4	Methomyl (16752-77-5)	-	0.0407	0.326	0.4	RESULT < AL
Azoxystrobin (131860-33-8)	-	0.0407	0.326	0.2	Methyl parathion (298-0-0)	-	0.0407	0.326	0.2	RESULT > AL
Bifenazate (149877-41-8)	-	0.0407	0.326	0.2	MGK 264 (113-48-4)	-	0.0407	0.326	0.2	"DET" detected less than LOQ
Bifenthrin (82657-04-3)	-	0.0407	0.326	0.2	Myclobutanil		0.0407	0.326	0.2	"-" not detected above
Boscalid (188425-85-6)	-	0.0407	0.326	0.4	(88671-89-0)	-	0.0407	0.320	0.2	LOD
Carbaryl (63-25-2)	-	0.0407	0.326	0.2	Naled (300-76-5)	-	0.0407	0.326	0.5	
Carbofuran (1563-66-2)	-	0.0407	0.326	0.2	Oxamyl (23135-22-0)	-	0.0407	0.326	1	Permethrins measured as the cumulative residue of the <i>cis</i> - and
Chlorantraniliprole (800008-45-7)	-	0.0407	0.326	0.2	Paclobutrazol (76738-62-0)	-	0.0407	0.326	0.4	trans- permethrin isomers.
Chlorfenapyr					Permethrins (52645-53-1)	-	0.0407	0.326	0.2	Pyrethrins measured as the
(122453-73-0)	-	0.0407	0.326	1	Phosmet (732-11-6)	-	0.0407	0.326	0.2	cumulative residue of the pyrethrin I, cinerin I, and jasmolin
Chlorpyrifos (2921-88-2)	-	0.0407	0.326	0.2	Piperonyl butoxide	_	0.0407	0.326	2	I isomers.
Clofentezine (74115-24-5)	-	0.0407	0.326	0.2	(51-03-6)					Action levels are
Cyfluthrin (68359-37-5)	-	0.0407	0.326	1	Prallethrins (2331-36-9)	-	0.0407	0.326	0.2	referenced from the State of
Cypermethrin (52315-07-8)	-	0.0407	0.326	1	Propiconazole (60207-90-1))	-	0.0407	0.326	0.4	Arkansas MMJ testing
Daminozide (1596-84-5)	-	0.0407	0.326	1	Propoxur (114-26-1)	-	0.0407	0.326	0.2	guidelines.
DDVP (62-73-7)	-	0.0407	0.326	0.1	Pyrethrins (8003-34-7)	-	0.0407	0.326	1	A value of "-" for the action level
Diazinon (333-41-5)	-	0.0407	0.326	0.2	Pyridaben (96489-71-3)	-	0.0407	0.326	0.2	means that analyte is not
Dimethoate (60-51-5)	-	0.0407	0.326	0.2	Spinosad (168316-95-8)	-	0.0407	0.326	0.2	currently regulated by the regulations referenced above.
Ethoprophos (13194-48-4)	-	0.0407	0.326	0.2	Spiromesifen (283594-90-1)	_	0.0407	0.326	0.2	C
Etofenprox (80844-07-1)	-	0.0407	0.326	0.4	(283594-90-1) Spirotetramat					<i>Disclaimer</i> : This information is provided as a service and makes
Etoxazole (153233-91-1)	-	0.0407	0.326	0.2	(203313-25-1)	-	0.0407	0.326	0.2	no claims of efficacy and/or safety
Fenoxycarb (72490-01-8)	-	0.0407	0.326	0.2	Spiroxamine		0.0407	0.220	0.4	of this product. Results are
(E)-Fenpyroximate (134098-61-6)	-	0.0407	0.326	0.4	(118134-30-8) Tebuconazole	-	0.0407	0.326	0.4	applicable only for the sample(s) analyzed and for the specific analysis conducted. This report is
Fipronil (120068-37-3)	-	0.0407	0.326	0.4	(80443-41-0)	-	0.0407	0.326	0.4	for informational purposes only
Flonicamid (158062-67-0)	-	0.0407	0.326	1	Thiacloprid	_	0.0407	0.326	0.2	and should not be used to diagnose, treat, or prevent any
Fludioxinil (131341-86-1)	-	0.0407	0.326	0.4	(111988-49-9)		5.0.07	0.020		medical-related symptoms. The
Hexythiazox (78587-05-0)	-	0.0407	0.326	1	Thiamethoxam (153719-23-4)	-	0.0407	0.326	0.2	statements and results herein have
Imazalil (35554-44-0)	-	0.0407	0.326	0.2	Trifloxystrobin					not been approved and/or endorsed by the FDA.
Imidacloprid (138261-41-3)	-	0.0407	0.326	0.4	(141517-21-7)	-	0.0407	0.326	0.2	endolsed by the i Dri.

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	<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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Analyzed on behalf of:



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA40652)

Testing Location:	Customer ID: 2168	Order ID: OR11519	Sample Type: Primary
Arkansas	River Valley Relief MIPS	Lot Number:	Matrix: Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13243879479	Mass: 4ea
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 03/28/2025
License: ADH 113	License: 00065C	E20250325BZLB03	Date Received: 03/28/2025
Cultivar (Strain) or Sample	Date Completed:03/31/2025		

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

Analysis Date/Time: 03/31/2025 0754		Method: IC Instrumen	CP/MS t: Agilent 7700x	Deviations from SOP: None	
Analyst: KF					
<u>Heavy Metal</u>	<u>Result</u> (µg/kg)	<u>LOD</u> <u>(µg/kg)</u>	<u>LOQ</u> (µg/kg)	<u>Action Level</u> (µg/kg)	
Arsenic (As)	ND	55.7	88.2	200	
Cadmium (Cd)	ND	55.7	88.2	200	
Lead (Pb)	ND	55.7	88.2	500	Part North Contraction of the Co
Mercury (Hg)	ND	55.7	88.2	100	

Abbreviations: ICP - Inductively-Coupled Plasma, MS - Mass Spectrometry,

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 "ND" not detected above LOD Reporting limit is 1/2 the action level of each analyte.

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

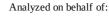
Disclaimer: This information is provided as a service and makes no claims of efficacy and/or safety of this product. Results are applicable only for the sample(s) analyzed and for the specific analysis conducted. This report is for informational purposes only and should not be used to diagnose, treat,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

W. Felling, Ph.D. ry Dire











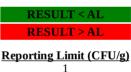
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License: ADA 05_H273	License: 00065C	E20250325BZLB03	Date Received: 03/28/2025
Cultivar (Strain) or Sample	Date Completed:03/31/2025		

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 03/30/20 Analyst: PW		Hardy Diagnostics Compac ent: Thermo Incubator	tDry 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	
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





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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