







SUMMARY OF ANALYSIS (SAMPLE ID: SA34982)

Testing Location:	Customer ID: 2168 Order ID: OR10403		Sample Type: Primary		
Arkansas	River Valley Relief MIPS	Lot Number:	Matrix: Concentrate		
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13246822854	Mass: 4g		
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 04/17/2023		
License: ADH 113	License: 00065C	E20230414WCKLBu01	Date Received: 04/17/2023		
Cultivar (Strain) or Sample Description: Wedding Cake Indica Hybrid Live Budder 1g JarDate Completed: 04/19/2023					

*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.

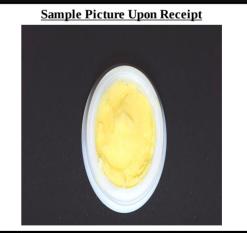
Moisture Content (%)	Water Activity (aw)	PASS/FAIL
Not Tested	Not Tested	PASS

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	86.9	869
CBGA	1.09	10.9
Δ9-ΤΗϹ	1.07	10.7
TOTAL CBD		-
TOTAL THC	77.3	773
TOTAL CANNABINOIDS	89.6	896
<u>Terpenes (Top 5)</u>	<u>(%)</u>	<u>µg∕g</u>
<u>Terpenes (Top 5)</u> d-Limonene	<u>(%)</u> 2.74	µg/g 27400
d-Limonene	2.74	27400
d-Limonene β-Caryophyllene	2.74 2.42	27400 24200
d-Limonene β-Caryophyllene β-Myrcene	2.74 2.42 0.989	27400 24200 9890

PASS/FAIL		
PASS		



Scan the QR code to verify results.

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CERTIFICATE OF ANALYSIS (SAMPLE ID: SA34982)

Testing Location:	Customer ID: 2168	Customer ID: 2168 Order ID: OR10403	
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232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13246822854	Mass: 4g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 04/17/2023
License: ADH 113	License: 00065C	E20230414WCKLBu01	Date Received: 04/17/2023
Cultivar (Strain) or Sample D	Date Completed: 04/19/2023		

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

Analysis Date/Time: 04/18/2023 1924 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 <u>(mg)</u>	<u>Per</u> g <u>Unit</u> (mg)
CBC	ND	ND	0.551	1.29	-	-	-
CBCA	ND	ND	1.71	3.99	-	-	-
CBD	ND	ND	3.89	9.08	-	-	-
CBDA	ND	ND	1.43	3.34	-	-	-
CBDV	ND	ND	0.624	1.46	-	-	-
CBDVA	ND	ND	1.66	3.88	-	-	-
CBG	ND	ND	2.52	5.90	-	-	-
CBGA	1.09	10.9	1.81	4.22	-	10.9	10.9
CBL	ND	ND	2.92	6.81	-	-	-
CBN	ND	ND	1.34	3.13	-	-	-
CBNA	ND	ND	1.45	3.37	-	-	-
Δ9-ΤΗC	1.07	10.7	1.61	3.74	-	10.7	10.7
$\Delta 8$ -THC	ND	ND	2.51	5.85	-	-	-
THCA	86.9	869	0.871	2.04	-	869	869
THCV	ND	ND	2.09	4.87	-	-	-
THCVA	0.595	5.95	0.667	1.55	-	5.95	5.95
TOTAL	89.6	896				896	896
TOTAL CBC	-	-				-	-
TOTAL CBD	-	-			-	-	-
TOTAL CBDV	-	-			-	-	-
TOTAL CBG	0.953	9.53			-	9.53	9.53
TOTAL CBN	-	-			-	-	-
TOTAL THC	77.3	773			-	773	773
TOTAL THCV	0.516	5.16			-	5.16	5.16

* CBCA, CBDVA, CBL, CBNA, and THCVA are in process of being added to our accreditation scope.

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): 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) + 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.

Kyle W. Felling, Ph.D. atory Directo

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CERTIFICATE OF ANALYSIS (SAMPLE ID: SA34982)

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232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13246822854	Mass: 4g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 04/17/2023
License: ADH 113	License: 00065C	E20230414WCKLBu01	Date Received: 04/17/2023
Cultivar (Strain) or Sample	Date Completed: 04/19/2023		

Analysis Date/Time:04/18/2023 2214

TI	ERPENO	ID PRC	FILE

Method: GC/MS

Analyst: KF		In	strument: Agilent 7890/5975	None
<u>Terpene</u>	<u>Result</u> (µg/g)	<u>Result</u> (%)		
α-Bisabolol	2790	0.279		
Camphene	1110	0.111		
δ-3-Carene	-	-		and the second second
β-Caryophyllene	24200	2.42		n Charles
Caryophyllene oxide	-	-		K A
p-Cymene	-	-		
Eucalyptol	-	-		
Geraniol	-	-		
Guaiol	6270	0.627		Abburgistismes CC Core
α-Humulene	9180	0.918		<i>Abbreviations:</i> GC - Gas Chromatography, MS - Ma
Isopulegol	-	-		Spectrometry, RL - Reporti
d-Limonene	27400	2.74		This information is provide and makes no claims of effi
Linalool	6290	0.629	<u> </u>	safety of this product.
β-Myrcene	9890	0.989	•	Results are applicable only sample(s) analyzed and for
cis-Nerolidol	-	-		analysis conducted.
trans-Nerolidol	175	0.0175		This report is for informatic only and should not be used
α-Ocimene	-	-	_	treat, or prevent any
β-Ocimene	4810	0.481		medical-related symptoms.
α-Pinene	4560	0.456		The statements and results l not been approved and/or en
β-Pinene	5690	0.569		the FDA.
α-Terpinene	-	-		
γ-Terpinene	-	-		
Terpinolene	932	0.0932		"-" Not detected above RL.
TOTAL	103000	10.3		Reporting



Deviations from SOP:

s: GC - Gas phy, MS - Mass , RL - Reporting Limit

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pplicable only for the alyzed and for the specific ducted.

for informational purposes uld not be used to diagnose, ent any

its and results herein have roved and/or endorsed by

4) Kyle W. Felling, Ph.D. Laboratory Director



Reporting Limit (µg/g): 48.3









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Arkansas	River Valley Relief MIPS	Lot Number:	Matrix: Concentrate
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License: ADH 113	License: 00065C	E20230414WCKLBu01	Date Received: 04/17/2023
Cultivar (Strain) or Sample	Date Completed: 04/19/2023		

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

Analysis Date/Time: 04/19/2023 0844 Method: HS/GC/MS Deviations from SOP:					s from SOP:					
Analyst: KF			Instrument: Agilent 7890/5975		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)	-	38.0	76.0	5000	n-Heptane (142-82-5)	-	38.0	76.0	5000	
Acetonitrile (75-5-8)	-	38.0	76.0	410	n-Hexane (110-54-3)	-	13.3	26.6	290	
Benzene (71-43-2)	-	0.380	0.760	2	Isobutane (75-28-5)	-	38.0	76.0	5000	
n-Butane (106-97-2)	-	38.0	76.0	5000	Isopropanol (67-63-0)	-	38.0	76.0	5000	
1-Butanol (71-36-3)	-	38.0	76.0	5000	Isopropyl acetate	_	38.0	76.0	5000	
2-Butanol (78-92-2)	-	38.0	76.0	5000	(108-21-4)					
2-Butanone (78-93-3)	-	38.0	76.0	5000	Isopropyl benzene (98-82-8)	-	3.80	7.60	70	
Cyclohexane (110-82-7)	-	38.0	76.0	3880	Methanol (67-56-1)	_	38.0	76.0	3000	<u>Color Key</u>
1,2-Dimethoxyethane	_	3.80	7.60	100	2-Methylbutane (78-78-4)	_	38.0	76.0	5000	
(110-71-4) N,N-Dimethylacetamide (127-19-5)	_	38.0	76.0	1090	Methylene chloride (75-9-2)	-	38.0	76.0	600	RESULT < AL RESULT > AL
(127-19-5) 2,2-Dimethylbutane (75-83-2)	_	13.3	26.6	290	2-Methylpentane (107-83-5)	-	13.3	26.6	290	"DET" detected less than LOQ
(73-Dimethylbutane					3-Methylpentane (96-10-0)	-	13.3	26.6	290	"-" not detected above
(79-29-8)	-	13.3	26.6	290	n-Pentane (109-66-0)	-	38.0	76.0	5000	LOD
N,N-Dimethylformamide		20.0	70.0	000	1-Pentanol (71-41-0)	-	38.0	76.0	5000	"*" - o,m,p-Xylene and
(68-12-2)	-	38.0	76.0	880	n-Propane (74-98-6)	-	38.0	76.0	5000	Ethylbenzene
Dimethylsulfoxide	_	38.0	76.0	5000	1-Propanol (71-23-8)	-	38.0	76.0	5000	J.
(67-68-5)				200	Pyridine (110-86-1)	-	13.3	26.6	200	Action levels are
1,4-Dioxane (123-91-1)	-	38.0	76.0	380	Tetrahydrofuran (109-99-9)	-	38.0	76.0	720	referenced from the State of Arkansas
Ethanol (64-17-5)	-	38.0	76.0	5000	Tetramethylene sulfone		13.3	26.6	160	MMJ testing
2-Ethoxyethanol (110-80-5)	-	13.3	26.6	160	(126-33-0)		15.5	20.0	100	guidelines.
Ethyl ether (60-29-7)	-	38.0	76.0	5000	Toluene (108-88-3)	-	38.0	76.0	890	-
Ethyl acetate (141-78-6)	-	38.0	76.0	5000	o-Xylene (95-47-6)	-	38.0	76.0	2170	A value of "-" for the action level
Ethyl benzene (100-41-4)	-	38.0	76.0	2170	m,p-Xylene (108-38-3 or	_	38.0	76.0	2170	means that analyte
Ethylene glycol (107-21-1)	-	38.0	76.0	620	106-42-3)		42.2	06.7	2170	is not currently
Ethylene oxide (75-21-8)	-	3.80	7.60	50	Xylenes* (1330-20-7)		43.3	86.7	2170	regulated by the regulations referenced above.
<u>Solvent</u>		Synonym(s			<u>Solvent</u>	_	Synonym(s)			
Acetonitrile		Methyl Cya			Ethylene glycol		1,2-Ethanedio			
1-Butanol		n-Butanol,	5	hol	Isobutane		2-Methylpropa			
2-Butanol		sec-Butyl a			Isopropanol		2-Propanol, IP			
2-Butanone		Methyl eth		1EK	Isopropyl Acetate		Acetic acid iso		r	
1,2-Dimethoxyethane		Monoglym			Methanol		Methyl alcoho -	l		
2,3-Dimethylbutane		Neohexane			2-Methylbutane		Isopentane			
2,3-Dimethylbutane		Diisopropy	y1		Methylene chloride		Dichlorometha	ine		
N,N-Dimethylformamide		DMF			2-Methylpentane		Isohexane	,		
Dimethysufoxide		DMSO	Eshell d	-1	1-Pentanol		n-Amyl alcoho			
2-Ethoxyethanol		Cellosolve		101	1-Propanol		Propyl alcohol			
Ethyl ether		Diethyl eth	ier, Ether		Tetrahydrofuran		THF			
Ethyl acetate		EtOAc			Tetramethylene sulfone		Sulfolane			
Ethyl benzene		Phenyletha	ine		Xylene	I	Dimethylbenz	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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Cultivar (Strain) or Sample	Date Completed: 04/19/2023		

PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 04/18/2023 2118 Analyst: KF

(E)-Fenpyroximate (134098-61-6)

Fipronil (120068-37-3)

Flonicamid (158062-67-0)

Fludioxinil (131341-86-1)

Hexythiazox (78587-05-0)

Imazalil (35554-44-0)

Imidacloprid

(138261-41-3)

0.0483

0.0483

0.0483

0.0483

0.0483

0.0483

0.0483

0.387

0.387

0.387

0.387

0.387

0.387

0.387

0.4

0.4

1

0.4

1

0.2

0.4

Tebuconazole

(80443-41-0)

Thiacloprid (111988-49-9)

Thiamethoxam

(153719-23-4)

Trifloxystrobin

(141517 - 21 - 7)

Method: LC/MS/MS

Analyst: KF					Instrument: Shima	dzu LC-8	3050		Non
<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)	LOD (µg/g)	<u>LOQ</u> (µg/g)	<u>Action</u> Level (µg/g)
Abamectin (71751-41-2)	-	0.0483	0.387	0.5	Kresoxim-methyl	_	0.0483	0.387	0.4
Acephate (30560-19-1)	-	0.0483	0.387	0.4	(143390-89-0)				
Acequinocyl (57960-19-7)	-	0.0483	0.387	2	Malathion (121-75-5)	-	0.0483	0.387	0.2
Acetamiprid (135410-20-7)	-	0.0483	0.387	0.2	Metalaxyl (57837-19-1) Methiocarb (2032-65-7)	-	0.0483 0.0483	0.387 0.387	0.2 0.2
Aldicarb (116-06-3)	-	0.0483	0.387	0.4	Methomyl (16752-77-5)	-	0.0483	0.387	0.4
Azoxystrobin (131860-33-8)	-	0.0483	0.387	0.2	Methyl parathion (298-0-0)	-	0.0483	0.387	0.2
Bifenazate (149877-41-8)	-	0.0483	0.387	0.2	MGK 264 (113-48-4)	-	0.0483	0.387	0.2
Bifenthrin (82657-04-3)	-	0.0483	0.387	0.2	Myclobutanil		0.0483	0.387	0.2
Boscalid (188425-85-6)	-	0.0483	0.387	0.4	(88671-89-0)	-	0.0403	0.307	
Carbaryl (63-25-2)	-	0.0483	0.387	0.2	Naled (300-76-5)	-	0.0483	0.387	0.5
Carbofuran (1563-66-2)	-	0.0483	0.387	0.2	Oxamyl (23135-22-0)	-	0.0483	0.387	1
Chlorantraniliprole (800008-45-7)	-	0.0483	0.387	0.2	Paclobutrazol (76738-62-0)	-	0.0483	0.387	0.4
Chlorfenapyr		0.0402	0.207	1	Permethrins (52645-53-1)	-	0.0483	0.387	0.2
(122453-73-0)	-	0.0483	0.387	1	Phosmet (732-11-6)	-	0.0483	0.387	0.2
Chlorpyrifos (2921-88-2)	-	0.0483	0.387	0.2	Piperonyl butoxide	_	0.0483	0.387	2
Clofentezine (74115-24-5)	-	0.0483	0.387	0.2	(51-03-6)		0.0400	0.007	
Cyfluthrin (68359-37-5)	-	0.0483	0.387	1	Prallethrins (2331-36-9)	-	0.0483	0.387	0.2
Cypermethrin (52315-07-8)	-	0.0483	0.387	1	Propiconazole (60207-90-1))	-	0.0483	0.387	0.4
Daminozide (1596-84-5)	-	0.0483	0.387	1	Propoxur (114-26-1)	-	0.0483	0.387	0.2
DDVP (62-73-7)	-	0.0483	0.387	0.1	Pyrethrins (8003-34-7)	-	0.0483	0.387	1
Diazinon (333-41-5)	-	0.0483	0.387	0.2	Pyridaben (96489-71-3)	-	0.0483	0.387	0.2
Dimethoate (60-51-5)	-	0.0483	0.387	0.2	Spinosad (168316-95-8)	-	0.0483	0.387	0.2
Ethoprophos (13194-48-4)	-	0.0483	0.387	0.2	Spiromesifen	-	0.0483	0.387	0.2
Etofenprox (80844-07-1)	-	0.0483	0.387	0.4	(283594-90-1) Spirotetramat				
Etoxazole (153233-91-1)	-	0.0483	0.387	0.2	(203313-25-1)	-	0.0483	0.387	0.2
Fenoxycarb (72490-01-8)	-	0.0483	0.387	0.2	Spiroxamine		0.0402	0.207	0.4
(E)-Fenpyroximate	_	0.0483	0 387	0.4	(118134-30-8)		0.0483	0.387	0.4

Deviations from SOP:

None

0.4

0.2

0.2

0.2

0.0483

0.0483

0.0483

0.0483

0.387

0.387

0.387

0.387



<u>Color Key</u>							
RESULT < AL							
RESULT > AL							
"DET" detected less than LOQ							
"-" not detected above LOD							
Permethrins measured as the cumulative residue of the <i>cis</i> - and <i>trans</i> - permethrin isomers.							
Pyrethrins measured as the cumulative residue of the pyrethrin I, cinerin I, and jasmolin l 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 Cvfluthrin Bavthroid Myclobutanil Systhane Propiconazole DDVP Dichlorvos Naled Dibrom Propoxur Phosmet Imidan Ethoprophos Prophos





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Cultivar (Strain) or Sample	Date Completed: 04/19/2023		

HEAVY METAL PROFILE (SOP: SOP-ICP-200.7)

Analysis Date/Time: 04/18/2023 1839 (ICP/OES) Analysis Date/Time: - (DMA) Analyst: KF				hod: ICP/OES rument: Agilent 720-E	Deviations from SOP: S 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)	-	58.1	92.0	200	
Cadmium (Cd)	-	58.1	92.0	200	
Lead (Pb)	-	58.1	92.0	500	
Mercury (Hg)	-	58.1	92.0	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.













CERTIFICATE OF ANALYSIS (SAMPLE ID: SA34982)

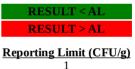
Testing Location:	Customer ID: 2168	Sample ID: SA34982	Sample Type: Primary
Arkansas	River Valley Relief MIPS	Lot Number:	Matrix: Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13246822854	Mass: 4g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 04/17/2023
License: ADA 05_H273	License: 00065C	E20230414WCKLBu01	Date Received: 04/17/2023
Cultivar (Strain) or Sample	Date Completed: 04/19/2023		

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 2023041 Analyst: PW		Hardy Diagnostics CompactDry nt: Thermo Incubator	y 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	-	NO NO DE LA
Pseudomonas aeruginosa	NT	1	
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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