



SUMMARY OF ANALYSIS (SAMPLE ID: SA39995)

Testing Location:	Customer ID: 2168	Order ID: OR11405	Sample Type: Primary
Arkansas	River Valley Relief MIPS	Lot Number:	Matrix: Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13247018879	Mass: 4ea
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 01/23/2025
License: ADH 113	License: 00065C	E20250123BZLB01	Date Received: 01/23/2025
Cultivar (Strain) or Sample Do	Date Completed:01/26/2025		

*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.

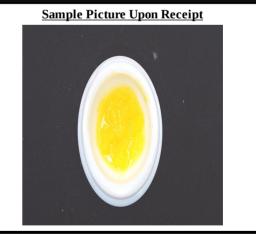
Moisture Content (%)	Water Activity (aw)	PASS/FAIL
Not Tested	Not Tested	PASS

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.

<u>Cannabinoids (Top 3)</u>	<u>(%)</u>	<u>mg/g</u>
THCA	82.8	828
CBGA	2.61	26.1
Δ9-ΤΗC	0.705	7.05
TOTAL CBD	0.000	0.000
TOTAL THC	73.3	733
TOTAL CANNABINOIDS	86.8	868
<u>Terpenes (Top 5)</u>	<u>(%)</u>	µg∕g
<u>Terpenes (Top 5)</u> β-Caryophyllene	<u>(%)</u> 1.62	<mark>µg/g</mark> 16200
β-Caryophyllene	1.62	16200
β-Caryophyllene d-Limonene	1.62 1.52	16200 15200
β-Caryophyllene d-Limonene β-Myrcene	1.62 1.52 1.08	16200 15200 10800

PASS/FAIL
PASS
PASS
PASS
PASS





Scan the QR code to verify results.

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REPORT OF LABORATORY ANALYSIS

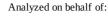
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Cultivar (Strain) or Sample	Date Completed:01/26/2025		

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

Analysis Date/Time: 01/24/2025 1654 Analyst: PW Method: HPLC/DAD Instrument: Agilent 1100

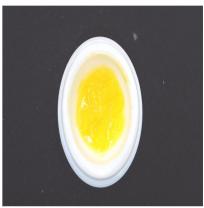
<u>Cannabinoid</u>	<u>Result</u> (<u>%)</u>	<u>Result</u> (mg/g)	<u>LOD</u> (<u>mg/g)</u>	<u>LOQ</u> (mg/g)	<u>Result</u> (mg/ mL)	<u>Per</u> <u>Serving</u> (mg)	<u>Per</u> <u>Unit</u> (mg)
CBC	ND	ND	0.108	0.253	-	0.000	0.000
CBCA	ND	ND	0.337	0.786	-	0.000	0.000
CBD	ND	ND	0.765	1.79	-	0.000	0.000
CBDA	DET	DET	0.282	0.657	-	0.000	0.000
CBDV	ND	ND	0.123	0.286	-	0.000	0.000
CBDVA	ND	ND	0.327	0.764	-	0.000	0.000
CBG	0.134	1.34	0.497	1.16	-	1.34	1.34
CBGA	2.61	26.1	0.704	0.831	-	26.1	26.1
CBL	ND	ND	0.574	1.34	-	0.000	0.000
CBN	ND	ND	0.264	0.616	-	0.000	0.000
CBNA	ND	ND	0.284	0.663	-	0.000	0.000
CBT	ND	ND	0.413	0.962	-	0.000	0.000
Δ9-ΤΗC	0.705	7.05	0.316	0.736	-	7.05	7.05
$\Delta 8$ -THC	ND	ND	0.493	1.15	-	0.000	0.000
THCA	82.8	828	0.171	0.401	-	828	828
THCV	ND	ND	0.411	0.958	-	0.000	0.000
THCVA	0.507	5.07	0.131	0.305	-	5.07	5.07
TOTAL	86.8	868				868	868
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	2.43	24.3			-	24.3	24.3
TOTAL CBN	0.000	0.000			-	0.000	0.000
TOTAL THC	73.3	733			-	733	733
TOTAL THCV	0.440	4.40			-	4.40	4.40

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.



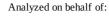
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License: ADH 113	License: 00065C	E20250123BZLB01	Date Received: 01/23/2025
Cultivar (Strain) or Sample	Date Completed:01/26/2025		

Analysis Date/Time:01/25/2025 1723 Analyst VE

Method: GC/MS	

TERPENOID PROFILE

Analyst: KF	51/20/2025 1/20	Instrument: Agilent 7890/5975			
<u>Terpene</u>	<u>Result</u> (µg/g)	<u>Result</u> (<u>%)</u>			
α-Bisabolol	ND	-			
Camphene	461	0.0461			
δ-3-Carene	167	0.0167			
β-Caryophyllene	16200	1.62			
Caryophyllene oxide	129	0.0129	1		
p-Cymene	161	0.0161			
Eucalyptol	85.6	0.00856			
Geraniol	532	0.0532			
Guaiol	1870	0.187			
α-Humulene	5430	0.543			
Isopulegol	ND	-			
d-Limonene	15200	1.52			
Linalool	7830	0.783			
β-Myrcene	10800	1.08			
cis-Nerolidol	ND	-			
trans-Nerolidol	2610	0.261			
α-Ocimene	286	0.0286			
β-Ocimene	320	0.0320			
α-Pinene	1010	0.101			
β-Pinene	1860	0.186	1		
α-Terpinene	179	0.0179			
γ-Terpinene	95.4	0.00954			
Terpinolene	267	0.0267			
TOTAL	65500	6.55			



Deviations from SOP:



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): 47.6

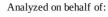
"-" Not detected above LOD.













Testing Location:	Customer ID: 2168	Order ID: OR11405	Sample Type: Primary
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Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 01/23/2025
License: ADH 113	License: 00065C	E20250123BZLB01	Date Received: 01/23/2025
Cultivar (Strain) or Sample	Date Completed:01/26/2025		

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

Analysis Date/Time:	01/24/20)25 0503		ľ	Method: HS/GC/MS			D	eviations	from SOP:
Analyst: KF				I	nstrument: Agilent 78	90/5975	5 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)	-	31.4	62.8	5000	n-Heptane (142-82-5)	-	31.4	62.8	5000	
Acetonitrile (75-5-8)	-	31.4	62.8	410	n-Hexane (110-54-3)	-	11.0	22.0	290	
Benzene (71-43-2)	-	0.314	0.628	2	Isobutane (75-28-5)	-	31.4	62.8	5000	
n-Butane (106-97-2)	-	31.4	62.8	5000	Isopropanol (67-63-0)	-	31.4	62.8	5000	
1-Butanol (71-36-3)	-	31.4	62.8	5000	Isopropyl acetate	_	31.4	62.8	5000	
2-Butanol (78-92-2)	-	31.4	62.8	5000	(108-21-4)					
2-Butanone (78-93-3)	-	31.4	62.8	5000	Isopropyl benzene (98-82-8)	-	3.14	6.28	70	
Cyclohexane (110-82-7)	-	31.4	62.8	3880	Methanol (67-56-1)	-	31.4	62.8	3000	<u>Color Key</u>
1,2-Dimethoxyethane (110-71-4)	-	3.14	6.28	100	2-Methylbutane (78-78-4)	-	31.4	62.8	5000	RESULT < AL
(110-71-4) N,N-Dimethylacetamide (127-19-5)	-	31.4	62.8	1090	Methylene chloride (75-9-2)	-	31.4	62.8	600	RESULT > AL
2,2-Dimethylbutane (75-83-2)	-	11.0	22.0	290	2-Methylpentane (107-83-5)	-	11.0	22.0	290	"-" not detected above 1/2 Action Level
2,3-Dimethylbutane		11.0	22.0	290	3-Methylpentane (96-10-0)	-	11.0	22.0	290	
(79-29-8)	-	11.0	22.0	290	n-Pentane (109-66-0)	-	31.4	62.8	5000	"*" - o,m,p-Xylene and Ethylbenzene
N,N-Dimethylformamide	_	31.4	62.8	880	1-Pentanol (71-41-0)	-	31.4	62.8	5000	Emyidenzene
(68-12-2)					n-Propane (74-98-6)	-	31.4	62.8	5000	Action levels are
Dimethylsulfoxide (67-68-5)	-	31.4	62.8	5000	1-Propanol (71-23-8)	-	31.4	62.8	5000	referenced from the State of
1,4-Dioxane (123-91-1)	_	31.4	62.8	380	Pyridine (110-86-1)	-	11.0	22.0	200	Arkansas MMJ testing
Ethanol (64-17-5)	-	31.4	62.8	5000	Tetrahydrofuran (109-99-9)	-	31.4	62.8	720	guidelines.
2-Ethoxyethanol (110-80-5)	-	11.0	22.0	160	Tetramethylene sulfone (126-33-0)	-	11.0	22.0	160	
Ethyl ether (60-29-7)	-	31.4	62.8	5000	Toluene (108-88-3)	_	31.4	62.8	890	A value of "-" for the action level
Ethyl acetate (141-78-6)	-	31.4	62.8	5000	o-Xylene (95-47-6)	_	31.4	62.8	2170	means that analyte
Ethyl benzene (100-41-4)	-	31.4	62.8	2170	m,p-Xylene (108-38-3 or					is not currently
Ethylene glycol (107-21-1)	-	31.4	62.8	620	106-42-3)	-	31.4	62.8	2170	regulated by the
Ethylene oxide (75-21-8)	-	3.14	6.28	50	Xylenes* (1330-20-7)	-	43.3	86.7	2170	regulations referenced above.
<u>Solvent</u>		Synonym(s	5)		Solvent	S	Synonym(s)			
Acetonitrile		Methyl Cya	anide, 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, IPA	4		
2-Butanone		Methyl eth	yl ketone, N	1EK	Isopropyl Acetate	A	Acetic acid iso	propyl estei	r	
1,2-Dimethoxyethane		Monoglym	e		Methanol	Ν	Methyl alcohol			
2,3-Dimethylbutane		Neohexane	<u>!</u>		2-Methylbutane	I	sopentane			
2,3-Dimethylbutane		Diisopropy	/l		Methylene chloride	Γ	Dichlorometha	ne		
N,N-Dimethylformamide		DMF			2-Methylpentane	Is	sohexane			
Dimethysufoxide		DMSO			1-Pentanol	n	n-Amyl alcoho	1		
2-Ethoxyethanol		Cellosolve	, Ethyl glyc	ol	1-Propanol	P	Propyl alcohol			

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

THF

Sulfolane

Dimethylbenzene

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Tetrahydrofuran

Xylene

Tetramethylene sulfone

Diethyl ether, Ether

EtOAc

Phenylethane



Ethyl ether

Ethyl acetate

Ethyl benzene

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Deviations from SOP:



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Cultivar (Strain) or Sample	Date Completed:01/26/2025		

PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 01/25/2025 0029 Analyst: KF

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

Analyst: KF			Instrument: Shimadzu LC-8050			None				
<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)	-	0.0473	0.378	0.5	Kresoxim-methyl	_	0.0473	0.378	0.4	
Acephate (30560-19-1)	-	0.0473	0.378	0.4	(143390-89-0)					
Acequinocyl (57960-19-7)	-	0.0473	0.378	2	Malathion (121-75-5)	-	0.0473	0.378	0.2	
Acetamiprid	_	0.0473	0.378	0.2	Metalaxyl (57837-19-1)	-	0.0473	0.378	0.2	Calaritier
(135410-20-7)					Methiocarb (2032-65-7)	-	0.0473	0.378	0.2	<u>Color Key</u>
Aldicarb (116-06-3)	-	0.0473	0.378	0.4	Methomyl (16752-77-5)	-	0.0473	0.378	0.4	RESULT < AL
Azoxystrobin (131860-33-8)	-	0.0473	0.378	0.2	Methyl parathion (298-0-0)	-	0.0473	0.378	0.2	RESULT > AL
Bifenazate (149877-41-8)	-	0.0473	0.378	0.2	MGK 264 (113-48-4)	-	0.0473	0.378	0.2	"DET" detected less than LOQ
Bifenthrin (82657-04-3)	-	0.0473	0.378	0.2	Myclobutanil	-	0.0473	0.378	0.2	"-" not detected above
Boscalid (188425-85-6)	-	0.0473	0.378	0.4	(88671-89-0) Naled (300-76-5)		0.0473	0.378	0.5	LOD
Carbaryl (63-25-2)	-	0.0473	0.378	0.2	Oxamyl (23135-22-0)	-	0.0473	0.378	1	Permethrins measured as the
Carbofuran (1563-66-2)	-	0.0473	0.378	0.2	Paclobutrazol	-	0.0473	0.370	1	cumulative residue of the <i>cis</i> - and
Chlorantraniliprole (800008-45-7)	-	0.0473	0.378	0.2	(76738-62-0)	-	0.0473	0.378	0.4	<i>trans-</i> permethrin isomers.
Chlorfenapyr	_	0.0473	0.378	1	Permethrins (52645-53-1)	-	0.0473	0.378	0.2	Pyrethrins measured as the cumulative residue of the
(122453-73-0)					Phosmet (732-11-6)	-	0.0473	0.378	0.2	pyrethrin I, cinerin I, and jasmolin
Chlorpyrifos (2921-88-2)	-	0.0473	0.378	0.2	Piperonyl butoxide (51-03-6)	-	0.0473	0.378	2	I isomers.
Clofentezine (74115-24-5)	-	0.0473	0.378	0.2	Prallethrins (2331-36-9)	_	0.0473	0.378	0.2	Action levels are
Cyfluthrin (68359-37-5)	-	0.0473	0.378	1	Propiconazole					referenced from the State of
Cypermethrin (52315-07-8)	-	0.0473	0.378	1	(60207-90-1))	-	0.0473	0.378	0.4	Arkansas MMJ testing
Daminozide (1596-84-5)	-	0.0473	0.378	1	Propoxur (114-26-1)	-	0.0473	0.378	0.2	guidelines.
DDVP (62-73-7)	-	0.0473	0.378	0.1	Pyrethrins (8003-34-7)	-	0.0473	0.378	1	A value of "-" for the action level
Diazinon (333-41-5)	-	0.0473	0.378	0.2	Pyridaben (96489-71-3)	-	0.0473	0.378	0.2	means that analyte is not currently regulated by the
Dimethoate (60-51-5)	-	0.0473	0.378	0.2	Spinosad (168316-95-8)	-	0.0473	0.378	0.2	regulations referenced above.
Ethoprophos (13194-48-4)	-	0.0473	0.378	0.2	Spiromesifen (283594-90-1)	-	0.0473	0.378	0.2	Disclaimer: This information is
Etofenprox (80844-07-1)	-	0.0473	0.378	0.4	Spirotetramat					provided as a service and makes
Etoxazole (153233-91-1)	-	0.0473	0.378	0.2	(203313-25-1)	-	0.0473	0.378	0.2	no claims of efficacy and/or safety
Fenoxycarb (72490-01-8)	-	0.0473	0.378	0.2	Spiroxamine	_	0.0473	0.378	0.4	of this product. Results are applicable only for the sample(s)
(E)-Fenpyroximate (134098-61-6)	-	0.0473	0.378	0.4	(118134-30-8) Tebuconazole					analyzed and for the specific analysis conducted. This report is
Fipronil (120068-37-3)	-	0.0473	0.378	0.4	(80443-41-0)	-	0.0473	0.378	0.4	for informational purposes only
Flonicamid (158062-67-0)	-	0.0473	0.378	1	Thiacloprid	_	0.0473	0.378	0.2	and should not be used to diagnose, treat, or prevent any
Fludioxinil (131341-86-1)	-	0.0473	0.378	0.4	(111988-49-9)					medical-related symptoms. The
Hexythiazox (78587-05-0)	-	0.0473	0.378	1	Thiamethoxam (153719-23-4)	-	0.0473	0.378	0.2	statements and results herein have
Imazalil (35554-44-0)	-	0.0473	0.378	0.2	Trifloxystrobin		0.0470	0.070	0.0	not been approved and/or endorsed by the FDA.
Imidacloprid (138261-41-3)	-	0.0473	0.378	0.4	(141517-21-7)	-	0.0473	0.378	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	<u>Synonym(s)</u>	Pesticide	Synonym(s)	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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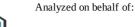


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Testing Location:	Customer ID: 2168	Order ID: OR11405	Sample Type: Primary
Arkansas	River Valley Relief MIPS	Lot Number:	Matrix: Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13247018879	Mass: 4ea
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 01/23/2025
License: ADH 113	License: 00065C	E20250123BZLB01	Date Received: 01/23/2025
Cultivar (Strain) or Sample	Date Completed:01/26/2025		

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

Analysis Date/T	`ime: 01/25/2025 1	1350	Method: IC Instrumen	CP/MS t: 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)	-	58.0	91.9	200			
Cadmium (Cd)	-	58.0	91.9	200			
Lead (Pb)	-	58.0	91.9	500	17.20 States		
Mercury (Hg)	-	58.0	91.9	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.

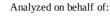
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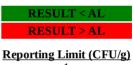
Testing Location:	Customer ID: 2168	Sample ID: SA39995	Sample Type: Primary
Arkansas	River Valley Relief MIPS	Lot Number:	Matrix: Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13247018879	Mass: 4ea
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 01/23/2025
License: ADA 05_H273	License: 00065C	E20250123BZLB01	Date Received: 01/23/2025
Cultivar (Strain) or Sample	Date Completed:01/26/2025		

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 01/24/20 Analyst: PW		Hardy Diagnostics CompactDry nt: 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	
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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