







SUMMARY OF ANALYSIS (SAMPLE ID: SA35159)

Testing Location:	Customer ID: 2168	Order ID: OR10439	Sample Type: Primary
Arkansas	River Valley Relief MIPS	Lot Number:	Matrix: Edible
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13220279737	Mass: 10g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 05/08/2023
License: ADH 113	License: 00065C	P20230504ISL010	Date Received: 05/08/2023
Cultivar (Strain) or Sample D	Date Completed: 05/11/2023		

*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.

Cannabinoide	s (Top 3)	<u>(%)</u>	mg/g	
Δ9-ΤΗ	C	0.205	2.05	
CBL		0.0309	0.309	
CBD			-	
TOTAL C	BD	-	-	
TOTAL T	ΉС	0.205	2.05	
TOTAL CANNA	ABINOIDS	0.236	2.36	
Terpenes (1	<u> </u>	<u>(%)</u>	µg∕g	
d-Limone	ene	0.0121	121	
Linaloo	bl	0.0113	113	
β-Myrce	ne	0.00992	99.2	
Terpinole	ene	0.00945	94.5	
α-Bisabo	lol	0.000	0.000	
TOTAL TER	PENES	0.0427 427		
<u>Contaminants</u>	PASS/FAIL	Sample Picture Upon Receipt		
Heavy Metals:	PASS			

Containmants	1100/11111
Heavy Metals:	PASS
Microbiology:	PASS
Pesticides:	PASS
Residual Solvents:	PASS





Scan the QR code to verify results.

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CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35159)

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Cultivar (Strain) or Sample Des	Date Completed: 05/11/2023		

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

Analysis Date/Time: 05/08/2023 1853 Analyst: PW Method: HPLC/DAD Instrument: Agilent 1100

<u>Cannabinoid</u>	<u>Result</u> (<u>%)</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> g <u>Unit</u> (mg)
CBC	ND	ND	0.00930	0.0217	-	-	-
CBCA	ND	ND	0.0289	0.0674	-	-	-
CBD	ND	ND	0.0656	0.153	-	-	-
CBDA	ND	ND	0.0241	0.0564	-	-	-
CBDV	ND	ND	0.0105	0.0246	-	-	-
CBDVA	ND	ND	0.0281	0.0655	-	-	-
CBG	<loq< td=""><td><loq< td=""><td>0.0426</td><td>0.0994</td><td>-</td><td>-</td><td>-</td></loq<></td></loq<>	<loq< td=""><td>0.0426</td><td>0.0994</td><td>-</td><td>-</td><td>-</td></loq<>	0.0426	0.0994	-	-	-
CBGA	ND	ND	0.0305	0.0712	-	-	-
CBL	0.0309	0.309	0.0492	0.115	-	1.50	15.0
CBN	ND	ND	0.0226	0.0528	-	-	-
CBNA	ND	ND	0.0244	0.0569	-	-	-
Δ9-ΤΗC	0.205	2.05	0.0271	0.0631	-	9.96	99.6
$\Delta 8$ -THC	ND	ND	0.0423	0.0986	-	-	-
THCA	ND	ND	0.0147	0.0343	-	-	-
THCV	ND	ND	0.0352	0.0822	-	-	-
THCVA	ND	ND	0.0113	0.0262	-	-	-
TOTAL	0.236	2.36				11.5	115
TOTAL CBC	-	-			-	-	-
TOTAL CBD	-	-			-	-	-
TOTAL CBDV	-	-			-	-	-
TOTAL CBG	-	-			-	-	-
TOTAL CBN	-	-			-	-	-
TOTAL THC	0.205	2.05			-	9.96	99.6
TOTAL THCV	-	-			-	-	-

* 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): 4.85 SERVINGS/UNIT: 10

"-" 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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Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 05/08/2023
License: ADH 113	License: 00065C	P20230504ISL010	Date Received: 05/08/2023
Cultivar (Strain) or Sample	Date Completed: 05/11/2023		

Analysis	Date/Time:05/09/2023 0803
Analyst:	KF

TERPENOID PROFILE

Analysis Date/Time:05/0 Analyst: KF	9/2023 0803		t hod: GC/MS rument: Agilent 7890/5975	Deviations from SOP: None
<u>Terpene</u>	<u>Result</u> (µg/g)	<u>Result</u> (%)		
α-Bisabolol	-	-		
Camphene	-	-		
δ-3-Carene	-	-		
β-Caryophyllene	-	-		ISLAND PUNCH
Caryophyllene oxide	-	-		AM
p-Cymene	-	-		NET WE LSSw (45g)
Eucalyptol	-	-		- Sectore
Geraniol	-	-		
Guaiol	-	-		Abbreviations: GC - Gas
α-Humulene	-	-		Chromatography, MS - Mass
Isopulegol	-	-		Spectrometry, RL - Reporting Limit
d-Limonene	121	0.0121		This information is provided as a service and makes no claims of efficacy and/or
Linalool	113	0.0113		safety of this product.
β-Myrcene	99.2	0.00992		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	-	-		medical-related symptoms.
α-Pinene	-	-		The statements and results herein have not been approved and/or endorsed by
β-Pinene	-	-		the FDA.
α-Terpinene	-	-		
γ-Terpinene	-	-		
Terpinolene	94.5	0.00945		"-" Not detected above RL.
TOTAL	427	0.0427		Reporting Limit (µg/g): 8.16













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License: ADH 113	License: 00065C	P20230504ISL010	Date Received: 05/08/2023
Cultivar (Strain) or Sample	Date Completed: 05/11/2023		

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

Analysis Date/Time:	05/08/20)23 2205		I	Method: HS/GC/MS			D	eviation	s from SOP:
Analyst: KF				1	nstrument: Agilent 78	90/5975		Ν	lone	
<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)	-	22.2	44.3	5000	n-Heptane (142-82-5)	-	22.2	44.3	5000	
Acetonitrile (75-5-8)	-	22.2	44.3	410	n-Hexane (110-54-3)	-	7.75	15.5	290	LUANA FASTACTING MINICA
Benzene (71-43-2)	-	0.222	0.443	2	Isobutane (75-28-5)	-	22.2	44.3	5000	ISLAND PUNCH
n-Butane (106-97-2)	-	22.2	44.3	5000	Isopropanol (67-63-0)	-	22.2	44.3	5000	
1-Butanol (71-36-3)	-	22.2	44.3	5000	Isopropyl acetate	_	22.2	44.3	5000	NET WE LISA- (dg)
2-Butanol (78-92-2)	-	22.2	44.3	5000	(108-21-4)			44.5	5000	
2-Butanone (78-93-3)	-	22.2	44.3	5000	Isopropyl benzene (98-82-8)	-	2.22	4.43	70	
Cyclohexane (110-82-7)	-	22.2	44.3	3880	(98-62-6) Methanol (67-56-1)		22.2	44.3	3000	<u>Color Key</u>
1,2-Dimethoxyethane	_	2.22	4.43	100	2-Methylbutane (78-78-4)		22.2	44.3	5000	
(110-71-4) N,N-Dimethylacetamide	_	22.2	44.3	1090	Methylene chloride (75-9-2)	-	22.2	44.3	600	RESULT < AL RESULT > AL
(127-19-5) 2,2-Dimethylbutane (75-83-2)	_	7.75	15.5	290	2-Methylpentane (107-83-5)	-	7.75	15.5	290	"DET" detected less than LOQ
2,3-Dimethylbutane					3-Methylpentane (96-10-0)	-	7.75	15.5	290	"-" not detected above
(79-29-8)	-	7.75	15.5	290	n-Pentane (109-66-0)	-	22.2	44.3	5000	LOD
N,N-Dimethylformamide		22.2	44.2	880	1-Pentanol (71-41-0)	-	22.2	44.3	5000	"*" - o,m,p-Xylene and
(68-12-2)		22.2	44.3	000	n-Propane (74-98-6)	-	22.2	44.3	5000	Ethylbenzene
Dimethylsulfoxide	_	22.2	44.3	5000	1-Propanol (71-23-8)	-	22.2	44.3	5000	5
(67-68-5)		22.2	44.3	380	Pyridine (110-86-1)	-	7.75	15.5	200	Action levels are
1,4-Dioxane (123-91-1)	-				Tetrahydrofuran (109-99-9)	-	22.2	44.3	720	referenced from the State of Arkansas
Ethanol (64-17-5) 2-Ethoxyethanol (110-80-5)	-	22.2 7.75	44.3 15.5	5000 160	Tetramethylene sulfone	_	7.75	15.5	160	MMJ testing
Ethyl ether (60-29-7)	-	22.2	44.3	5000	(126-33-0)					guidelines.
Ethyl acetate (141-78-6)	-	22.2	44.3 44.3	5000	Toluene (108-88-3)	-	22.2	44.3	890	A value of "-"
Ethyl benzene (100-41-4)	-	22.2	44.3 44.3	2170	o-Xylene (95-47-6)	-	22.2	44.3	2170	for the action level
Ethylene glycol (107-21-1)		22.2	44.3	620	m,p-Xylene (108-38-3 or 106-42-3)	-	22.2	44.3	2170	means that analyte
Ethylene oxide (75-21-8)		2.22	4.43	50	Xylenes* (1330-20-7)		43.3	86.7	2170	is not currently
Solvent		Synonym(s		50	Solvent		ynonym(s)	00.7	2170	regulated by the regulations referenced above.
Acetonitrile		Methyl Cya			Ethylene glycol		,2-Ethanediol			
1-Butanol		n-Butanol,		hol	Isobutane		-Methylpropa			
2-Butanol		sec-Butyl a	5	1101	Isopropanol		-Propanol, IP/			
2-Butanone		Methyl ethy		NEK	Isopropyl Acetate		cetic acid iso		r	
1,2-Dimethoxyethane		Monoglym		ILIX.	Methanol		Aethyl alcoho		L	
2,3-Dimethylbutane		Neohexane			2-Methylbutane		sopentane	1		
2,3-Dimethylbutane		Diisopropy			Methylene chloride		Sopentane Dichlorometha	ine		
N,N-Dimethylformamide		DMF	-		2-Methylpentane		sohexane			
Dimethysufoxide		DMSO			1-Pentanol		-Amyl alcoho	1		
2-Ethoxyethanol		Cellosolve,	Ethyl glyc	ol	1-Propanol		ropyl alcohol			
Ethyl ether		Diethyl eth		.01	Tetrahydrofuran		TOPYI alconol THF			
Ethyl acetate		EtOAc	, 1.110		Tetramethylene sulfone		ulfolane			
Ethyl benzene		Phenyletha	ne		Xylene		Dimethylbenze	ne		
Ethyl benzene		rnenyietha	116		лутене	L	memyroenze	ine		

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: 05/11/2023		

PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 05/08/2023 1847 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)	-	0.00816	0.0653	0.5	Kresoxim-methyl		0.00816	0.0653	0.4	
Acephate (30560-19-1)	-	0.00816	0.0653	0.4	(143390-89-0)					
Acequinocyl (57960-19-7)	-	0.00816	0.0653	2	Malathion (121-75-5)	-	0.00816	0.0653	0.2	
Acetamiprid	_	0.00816	0.0653	0.2	Metalaxyl (57837-19-1)	-	0.00816	0.0653	0.2	
(135410-20-7)					Methiocarb (2032-65-7)	-	0.00816	0.0653	0.2	
Aldicarb (116-06-3)	-	0.00816	0.0653	0.4	Methomyl (16752-77-5)	-	0.00816	0.0653	0.4	×
Azoxystrobin (131860-33-8)	-	0.00816	0.0653	0.2	Methyl parathion (298-0-0)	-	0.00816	0.0653	0.2	
Bifenazate (149877-41-8)	-	0.00816	0.0653	0.2	MGK 264 (113-48-4)	-	0.00816	0.0653	0.2	<u>Col</u>
Bifenthrin (82657-04-3)	-	0.00816	0.0653	0.2	Myclobutanil	_	0.00816	0.0653	0.2	RESU
Boscalid (188425-85-6)	-	0.00816	0.0653	0.4	(88671-89-0)					RESU
Carbaryl (63-25-2)	-	0.00816	0.0653	0.2	Naled (300-76-5)	-	0.00816	0.0653	0.5	"DET" detect
Carbofuran (1563-66-2)	-	0.00816	0.0653	0.2	Oxamyl (23135-22-0)	-	0.00816	0.0653	1	"DET" detecte
Chlorantraniliprole (800008-45-7)	-	0.00816	0.0653	0.2	Paclobutrazol (76738-62-0)	-	0.00816	0.0653	0.4	"-" not de L
Chlorfenapyr (122453-73-0)	-	0.00816	0.0653	1	Permethrins (52645-53-1)	-	0.00816	0.0653	0.2	Permethrins
Chlorpyrifos (2921-88-2)	-	0.00816	0.0653	0.2	Phosmet (732-11-6)	-	0.00816	0.0653	0.2	cumulative resi trans- perm
Clofentezine (74115-24-5)	-	0.00816	0.0653	0.2	Piperonyl butoxide	_	0.00816	0.0653	2	
Cyfluthrin (68359-37-5)	-	0.00816	0.0653	1	(51-03-6)		0.0004.0	0.0050	0.0	Pyrethrins r cumulative
Cypermethrin		0.00816	0.0653	1	Prallethrins (2331-36-9)	-	0.00816	0.0653	0.2	pyrethrin I, cine
(52315-07-8)	-	0.00010	0.0655	1	Propiconazole (60207-90-1))	-	0.00816	0.0653	0.4	Iis
Daminozide (1596-84-5)	-	0.00816	0.0653	1	Propoxur (114-26-1)	_	0.00816	0.0653	0.2	Action levels a
DDVP (62-73-7)	-	0.00816	0.0653	0.1	Pyrethrins (8003-34-7)	_	0.00816	0.0653	1	1
Diazinon (333-41-5)	-	0.00816	0.0653	0.2	Pyridaben (96489-71-3)	-	0.00816	0.0653	0.2	State of Arkan guid
Dimethoate (60-51-5)	-	0.00816	0.0653	0.2	Spinosad (168316-95-8)	_	0.00816	0.0653	0.2	guit
Ethoprophos (13194-48-4)	-	0.00816	0.0653	0.2	Spiromesifen	_	0.00816	0.0653	0.2	A value of "-" f means that
Etofenprox (80844-07-1)	-	0.00816	0.0653	0.4	(283594-90-1)					currently re
Etoxazole (153233-91-1)	-	0.00816	0.0653	0.2	Spirotetramat (203313-25-1)	-	0.00816	0.0653	0.2	regulations re
Fenoxycarb (72490-01-8)	-	0.00816	0.0653	0.2	Spiroxamine					Disclaimer: T
(E)-Fenpyroximate (134098-61-6)	-	0.00816	0.0653	0.4	(118134-30-8) Tebuconazole	-	0.00816	0.0653	0.4	provided as a s no claims of eff
Fipronil (120068-37-3)	_	0.00816	0.0653	0.4	(80443-41-0)	-	0.00816	0.0653	0.4	of this prod applicable only
Flonicamid (158062-67-0)	_	0.00816	0.0653	1	Thiacloprid		0.00916	0.0652	0.2	analyzed and
Fludioxinil (131341-86-1)	_	0.00816	0.0653	0.4	(111988-49-9)		0.00816	0.0653	0.2	analysis conduction for information
Hexythiazox (78587-05-0)	_	0.00816	0.0653	1	Thiamethoxam		0.00816	0.0653	0.2	and should
Imazalil (35554-44-0)	_	0.00816	0.0653	0.2	(153719-23-4)					diagnose, trea
Imidacloprid (138261-41-3)	-	0.00816	0.0653	0.4	Trifloxystrobin (141517-21-7)	-	0.00816	0.0653	0.2	medical-relate statements and not been ap

Deviations from SOP:

None



<u>olor Key</u>

A cted less than LOQ detected above LOD is measured as the esidue of the cis- and methrin isomers. measured as the ve residue of the nerin I, and jasmolin isomers. are referenced from the ansas MMJ testing uidelines. ' for the action level at analyte is not regulated by the referenced above. This information is a service and makes efficacy and/or safety oduct. Results are ly for the sample(s) nd for the specific ducted. This report is ional purposes only ld not be used to reat, or prevent any ated symptoms. The id results herein have not been approved and/or endorsed by the FDA.

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

quantineation					
Pesticide	<u>Synonym(s)</u>	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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Testing Location:	Customer ID: 2168	Order ID: OR10439	Sample Type: Primary
Arkansas	River Valley Relief MIPS	Lot Number:	Matrix: Edible
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13220279737	Mass: 10g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 05/08/2023
License: ADH 113	License: 00065C	P20230504ISL010	Date Received: 05/08/2023
Cultivar (Strain) or Sample D	Date Completed: 05/11/2023		

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

Analysis Date/Time: 05/10/2023 1506 (ICP/OES) Analysis Date/Time: - (DMA) Analyst: KF			_	thod: ICP/OES trument: Agilent 720-ES	Deviations from SOP: 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)	-	56.1	88.8	200	
Cadmium (Cd)	-	56.1	88.8	200	
Lead (Pb)	-	56.1	88.8	500	
Mercury (Hg)		56.1	88.8	100	UCAR USLAND DUNCH ISLAND REWRISS. (6)

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



"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: SA35159)

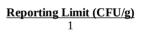
Testing Location:	Customer ID: 2168	Sample ID: SA35159	Sample Type: Primary
Arkansas	River Valley Relief MIPS	Lot Number:	Matrix: Edible
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13220279737	Mass: 10g
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 05/08/2023
License: ADA 05_H273	License: 00065C	P20230504ISL010	Date Received: 05/08/2023
Cultivar (Strain) or Sample D	Date Completed: 05/11/2023		

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 2023050 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	1	
Salmonella spp.	NT	-	NET WIT ISSU (45g)
Staphylococcus aureus	NT	-	et in Like reg

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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