

SUMMARY OF ANALYSIS (SAMPLE ID: SA36244)

Testing Location: Arkansas 232 S. Broadview St. Greenbrier, AR 72058 License: ADH 113	Customer ID: 2168 River Valley Relief MIPS 5601 Old Greenwood Rd Suite C Fort Smith, AR 72903 License: 00065C	Order ID: OR10656 Lot Number: M00065C13241421336 Production Run: E20231013LCBLBa01	Sample Type: Primary Matrix: Concentrate Mass: 4g Date Collected: 10/16/2023 Date Received: 10/16/2023
Cultivar (Strain) or Sample Description: Log Cabin Sativa Hybrid Live Badder			Date Completed: 10/18/2023

*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 (%)

Not Tested

Water Activity (aw)

Not Tested

PASS/FAIL

PASS

Moisture content/water activity action levels are referenced from the State of Arkansas MMJ testing guidelines.

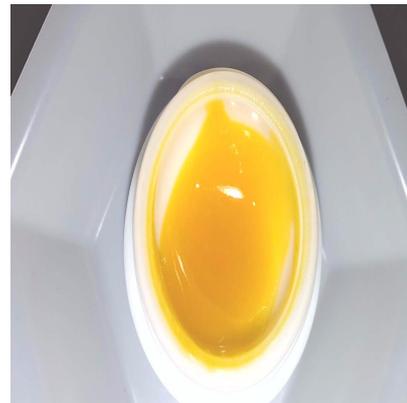
Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

Cannabinoids (Top 3)	(%)	mg/g
THCA	73.9	739
Δ9-THC	8.03	80.3
CBGA	1.21	12.1
TOTAL CBD	-	-
TOTAL THC	72.9	729
TOTAL CANNABINOIDS	84.6	846

Terpenes (Top 5)	(%)	µg/g
β-Myrcene	2.08	20800
β-Caryophyllene	0.399	3990
d-Limonene	0.261	2610
α-Humulene	0.148	1480
β-Pinene	0.0975	975
TOTAL TERPENES	3.21	32100

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

Sample Picture Upon Receipt



Scan the QR code to verify results.

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REPORT OF LABORATORY ANALYSIS

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

www.FASTLaboratories.com



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA36244)

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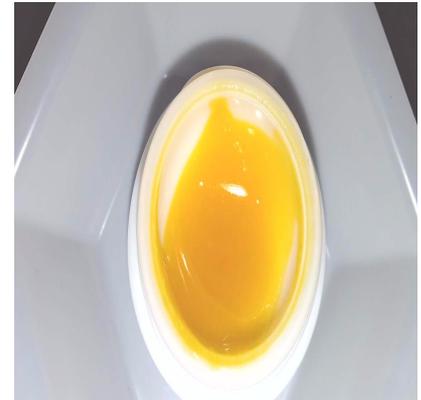
CANNABINOID (POTENCY) PROFILE (SOP: SOP-CANN-001)

Analysis Date/Time: 10/17/2023 1632
Analyst: PW

Method: HPLC/DAD
Instrument: Agilent 1100

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

<u>Cannabinoid</u>	<u>Result (%)</u>	<u>Result (mg/g)</u>	<u>LOD (mg/g)</u>	<u>LOQ (mg/g)</u>	<u>Result (mg/mL)</u>	<u>Per Serving (mg)</u>	<u>Per Unit (mg)</u>
CBC	ND	ND	0.108	0.251	-	-	-
CBCA	ND	ND	0.334	0.779	-	-	-
CBD	ND	ND	0.759	1.77	-	-	-
CBDV	ND	ND	0.122	0.284	-	-	-
CBDVA	ND	ND	0.325	0.758	-	-	-
CBG	ND	ND	0.492	1.15	-	-	-
CBGA	1.21	12.1	0.698	0.824	-	12.1	12.1
CBL	1.14	11.4	0.569	1.33	-	11.4	11.4
CBN	ND	ND	0.261	0.610	-	-	-
CBNA	ND	ND	0.282	0.658	-	-	-
Δ9-THC	8.03	80.3	0.313	0.730	-	80.3	80.3
Δ8-THC	ND	ND	0.489	1.14	-	-	-
THCA	73.9	739	0.170	0.397	-	739	739
THCV	ND	ND	0.408	0.950	-	-	-
THCVA	0.311	3.11	0.130	0.303	-	3.11	3.11
TOTAL	84.6	846				846	846
TOTAL CBC	-	-				-	-
TOTAL CBD	-	-				-	-
TOTAL CBDV	-	-				-	-
TOTAL CBG	1.06	10.6				10.6	10.6
TOTAL CBN	-	-				-	-
TOTAL THC	72.9	729				729	729
TOTAL THCVA	0.270	2.70				2.70	2.70



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 = (CBDV x 0.867) + 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) + Δ9-THC
Total THCVA = (THCVA x 0.867) + THCVA

Percentage results are reported by mass.

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

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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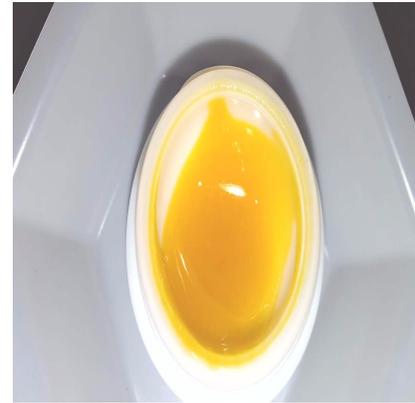
TERPENOID PROFILE

Analysis Date/Time: 10/17/2023 1803
Analyst: KF

Method: GC/MS
Instrument: Agilent 7890/5975

Deviations from SOP:
None

<u>Terpene</u>	<u>Result (µg/g)</u>	<u>Result (%)</u>	
α-Bisabolol	409	0.0409	
Camphene	220	0.0220	
δ-3-Carene	ND	-	
β-Caryophyllene	3990	0.399	■
Caryophyllene oxide	ND	-	
p-Cymene	ND	-	
Eucalyptol	ND	-	
Geraniol	ND	-	
Guaiol	ND	-	
α-Humulene	1480	0.148	■
Isopulegol	ND	-	
d-Limonene	2610	0.261	■
Linalool	ND	-	
β-Myrcene	20800	2.08	■
cis-Nerolidol	409	0.0409	
trans-Nerolidol	629	0.0629	
α-Ocimene	ND	-	
β-Ocimene	ND	-	
α-Pinene	660	0.0660	
β-Pinene	975	0.0975	■
α-Terpinene	ND	-	
γ-Terpinene	ND	-	
Terpinolene	ND	-	
TOTAL	32100	3.21	



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): 78.6

"-" Not detected above LOD.

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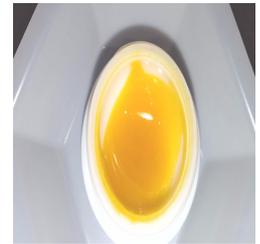
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Cultivar (Strain) or Sample Description: Log Cabin Sativa Hybrid Live Badder **Date Completed:** 10/18/2023

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

Analysis Date/Time: 10/18/2023 0414 **Method:** HS/GC/MS **Deviations from SOP:** None
Analyst: KF **Instrument:** Agilent 7890/5975

Solvent	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)	Solvent	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)
Acetone (67-64-1)	-	128	256	5000	n-Heptane (142-82-5)	-	128	256	5000
Acetonitrile (75-5-8)	-	128	256	410	n-Hexane (110-54-3)	-	44.8	89.6	290
Benzene (71-43-2)	-	1.28	2.56	2	Isobutane (75-28-5)	-	128	256	5000
n-Butane (106-97-2)	-	128	256	5000	Isopropanol (67-63-0)	-	128	256	5000
1-Butanol (71-36-3)	-	128	256	5000	Isopropyl acetate (108-21-4)	-	128	256	5000
2-Butanol (78-92-2)	-	128	256	5000	Isopropyl benzene (98-82-8)	-	12.8	25.6	70
2-Butanone (78-93-3)	-	128	256	5000	Methanol (67-56-1)	-	128	256	3000
Cyclohexane (110-82-7)	-	128	256	3880	2-Methylbutane (78-78-4)	-	128	256	5000
1,2-Dimethoxyethane (110-71-4)	-	12.8	25.6	100	Methylene chloride (75-9-2)	-	128	256	600
N,N-Dimethylacetamide (127-19-5)	-	128	256	1090	2-Methylpentane (107-83-5)	-	44.8	89.6	290
2,2-Dimethylbutane (75-83-2)	-	44.8	89.6	290	3-Methylpentane (96-10-0)	-	44.8	89.6	290
2,3-Dimethylbutane (79-29-8)	-	44.8	89.6	290	n-Pentane (109-66-0)	-	128	256	5000
N,N-Dimethylformamide (68-12-2)	-	128	256	880	1-Pentanol (71-41-0)	-	128	256	5000
Dimethylsulfoxide (67-68-5)	-	128	256	5000	n-Propane (74-98-6)	-	128	256	5000
1,4-Dioxane (123-91-1)	-	128	256	380	1-Propanol (71-23-8)	-	128	256	5000
Ethanol (64-17-5)	-	128	256	5000	Pyridine (110-86-1)	-	44.8	89.6	200
2-Ethoxyethanol (110-80-5)	-	44.8	89.6	160	Tetrahydrofuran (109-99-9)	-	128	256	720
Ethyl ether (60-29-7)	-	128	256	5000	Tetramethylene sulfone (126-33-0)	-	44.8	89.6	160
Ethyl acetate (141-78-6)	-	128	256	5000	Toluene (108-88-3)	-	128	256	890
Ethyl benzene (100-41-4)	-	128	256	2170	o-Xylene (95-47-6)	-	128	256	2170
Ethylene glycol (107-21-1)	-	128	256	620	m,p-Xylene (108-38-3 or 106-42-3)	-	128	256	2170
Ethylene oxide (75-21-8)	-	12.8	25.6	50	Xylenes* (1330-20-7)	-	43.3	86.7	2170



Color Key

RESULT < AL (Green background)
RESULT > AL (Red background)

"DET" detected less than LOQ
 "-" not detected above LOD
 "*" - o,m,p-Xylene and Ethylbenzene
 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.

Solvent	Synonym(s)	Solvent	Synonym(s)
Acetonitrile	Methyl Cyanide, ACN	Ethylene glycol	1,2-Ethanediol
1-Butanol	n-Butanol, Butyl Alcohol	Isobutane	2-Methylpropane
2-Butanol	sec-Butyl alcohol	Isopropanol	2-Propanol, IPA
2-Butanone	Methyl ethyl ketone, MEK	Isopropyl Acetate	Acetic acid isopropyl ester
1,2-Dimethoxyethane	Monoglyme	Methanol	Methyl alcohol
2,3-Dimethylbutane	Neohexane	2-Methylbutane	Isopentane
2,3-Dimethylbutane	Diisopropyl	Methylene chloride	Dichloromethane
N,N-Dimethylformamide	DMF	2-Methylpentane	Isohexane
Dimethylsulfoxide	DMSO	1-Pentanol	n-Amyl alcohol
2-Ethoxyethanol	Cellosolve, Ethyl glycol	1-Propanol	Propyl alcohol
Ethyl ether	Diethyl ether, Ether	Tetrahydrofuran	THF
Ethyl acetate	EtOAc	Tetramethylene sulfone	Sulfolane
Ethyl benzene	Phenylethane	Xylene	Dimethylbenzene

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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PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 10/17/2023 1713 **Method:** LC/MS/MS **Deviations from SOP:** None
Analyst: KF **Instrument:** Shimadzu LC-8050

Pesticide	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)	Pesticide	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)
Abamectin (71751-41-2)	-	0.0469	0.375	0.5	Kresoxim-methyl (143390-89-0)	-	0.0469	0.375	0.4
Acephate (30560-19-1)	-	0.0469	0.375	0.4	Malathion (121-75-5)	-	0.0469	0.375	0.2
Acetamiprid (135410-20-7)	-	0.0469	0.375	0.2	Metalaxyl (57837-19-1)	-	0.0469	0.375	0.2
Aldicarb (116-06-3)	-	0.0469	0.375	0.4	Methiocarb (2032-65-7)	-	0.0469	0.375	0.2
Azoxystrobin (131860-33-8)	-	0.0469	0.375	0.2	Methomyl (16752-77-5)	-	0.0469	0.375	0.4
Bifenazate (149877-41-8)	-	0.0469	0.375	0.2	Methyl parathion (298-0-0)	-	0.0469	0.375	0.2
Bifenthrin (82657-04-3)	-	0.0469	0.375	0.2	MGK 264 (113-48-4)	-	0.0469	0.375	0.2
Boscalid (188425-85-6)	-	0.0469	0.375	0.4	Myclobutanil (88671-89-0)	-	0.0469	0.375	0.2
Carbaryl (63-25-2)	-	0.0469	0.375	0.2	Naled (300-76-5)	-	0.0469	0.375	0.5
Carbofuran (1563-66-2)	-	0.0469	0.375	0.2	Oxamyl (23135-22-0)	-	0.0469	0.375	1
Chlorantraniliprole (800008-45-7)	-	0.0469	0.375	0.2	Pacllobutrazol (76738-62-0)	-	0.0469	0.375	0.4
Chlorfenapyr (122453-73-0)	-	0.0469	0.375	1	Permethrins (52645-53-1)	-	0.0469	0.375	0.2
Chlorpyrifos (2921-88-2)	-	0.0469	0.375	0.2	Phosmet (732-11-6)	-	0.0469	0.375	0.2
Clofentezine (74115-24-5)	-	0.0469	0.375	0.2	Piperonyl butoxide (51-03-6)	-	0.0469	0.375	2
Cyfluthrin (68359-37-5)	-	0.0469	0.375	1	Prallethrins (2331-36-9)	-	0.0469	0.375	0.2
Cypermethrin (52315-07-8)	-	0.0469	0.375	1	Propiconazole (60207-90-1)	-	0.0469	0.375	0.4
Daminozide (1596-84-5)	-	0.0469	0.375	1	Propoxur (114-26-1)	-	0.0469	0.375	0.2
DDVP (62-73-7)	-	0.0469	0.375	0.1	Pyrethrins (8003-34-7)	-	0.0469	0.375	1
Diazinon (333-41-5)	-	0.0469	0.375	0.2	Pyridaben (96489-71-3)	-	0.0469	0.375	0.2
Dimethoate (60-51-5)	-	0.0469	0.375	0.2	Spinosad (168316-95-8)	-	0.0469	0.375	0.2
Ethoprophos (13194-48-4)	-	0.0469	0.375	0.2	Spiromesifen (283594-90-1)	-	0.0469	0.375	0.2
Etofenprox (80844-07-1)	-	0.0469	0.375	0.4	Spirotetramat (203313-25-1)	-	0.0469	0.375	0.2
Etoazole (153233-91-1)	-	0.0469	0.375	0.2	Spiroxamine (118134-30-8)	-	0.0469	0.375	0.4
Fenoxycarb (72490-01-8)	-	0.0469	0.375	0.2	Tebuconazole (80443-41-0)	-	0.0469	0.375	0.4
(E)-Fenpyroximate (134098-61-6)	-	0.0469	0.375	0.4	Thiacloprid (111988-49-9)	-	0.0469	0.375	0.2
Fipronil (120068-37-3)	-	0.0469	0.375	0.4	Thiamethoxam (153719-23-4)	-	0.0469	0.375	0.2
Fonicamid (158062-67-0)	-	0.0469	0.375	1	Trifloxystrobin (141517-21-7)	-	0.0469	0.375	0.2
Fludioxinil (131341-86-1)	-	0.0469	0.375	0.4					
Hexythiazox (78587-05-0)	-	0.0469	0.375	1					
Imazalil (35554-44-0)	-	0.0469	0.375	0.2					
Imidacloprid (138261-41-3)	-	0.0469	0.375	0.4					



Color Key

RESULT < AL
RESULT > AL

"DET" detected less than LOQ
 "-" not detected above LOD
 Permethrins measured as the cumulative residue of the *cis*- and *trans*- permethrin isomers.
 Pyrethrins measured as the cumulative residue of the pyrethrin I, cinerin I, and jasmolin I isomers.
 Action levels are referenced from the State of Arkansas MMJ testing guidelines.
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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	Synonym(s)
Cyfluthrin	Baythroid	Myclobutanil	Sythane	Propiconazole	Tilt
DDVP	Dichlorvos	Naled	Dibrom	Propoxur	Baygon
Ethoprophos	Prophos	Phosmet	Imidan		

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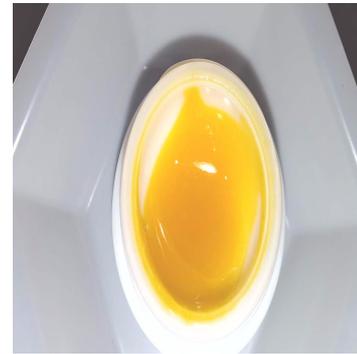
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HEAVY METAL PROFILE (SOP: SOP-ICP-200.6)

Analysis Date/Time: 10/17/2023 1840 (ICP/OES)	Method: ICP/MS	Deviations from SOP:
Analysis Date/Time: - (DMA)	Instrument: Agilent 7500ce	None
Analyst: KF		

<u>Heavy Metal</u>	<u>Result (µg/kg)</u>	<u>LOD (µg/kg)</u>	<u>LOQ (µg/kg)</u>	<u>Action Level (µg/kg)</u>
Arsenic (As)	-	58.7	92.9	200
Cadmium (Cd)	-	58.7	92.9	200
Lead (Pb)	-	58.7	92.9	500
Mercury (Hg)	-	58.7	92.9	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

Color Key

RESULT < AL
RESULT > AL

"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.

REPORT OF LABORATORY ANALYSIS

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

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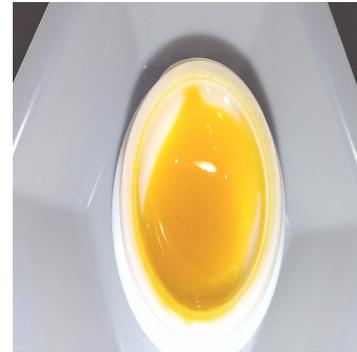
CERTIFICATE OF ANALYSIS (SAMPLE ID: SA36244)

Testing Location: Arkansas 232 S. Broadview St. Greenbrier, AR 72058 License: ADA 05_H273	Customer ID: 2168 River Valley Relief MIPS 5601 Old Greenwood Rd Suite C Fort Smith, AR 72903 License: 00065C	Sample ID: SA36244 Lot Number: M00065C13241421336 Production Run: E20231013LCBLBa01	Sample Type: Primary Matrix: Concentrate Mass: 4g Date Collected: 10/16/2023 Date Received: 10/16/2023
Cultivar (Strain) or Sample Description: Log Cabin Sativa Hybrid Live Badder			Date Completed: 10/18/2023

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 10/18/2023 0857 **Method:** Hardy Diagnostics CompactDry **Deviations from SOP:**
Analyst: PW **Instrument:** Thermo Incubator None

Bacteria/Microbe	Result (CFU/g)	Action Level (CFU/g)
Aerobic Plate Count	Absent	-
Coliforms, Total	Absent	1
Escherichia Coli (E. Coli)	NT	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

Color Key

RESULT < AL

RESULT > AL

Reporting Limit (CFU/g)
1

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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