F.A.S.T. LABORATORIES/RESEARCH

ACCREDITED CERTIFICATE #4473.01

Analyzed on behalf of:

RVR RIVER VALLEY RELIEF

SUMMARY OF ANALYSIS (SAMPLE ID: SA41607)

Testing Location:	**Customer ID:** 2168	**Order ID:** OR11682	**Sample Type:** Primary
Arkansas	River Valley Relief MIPS	**Lot Number:**	**Matrix:** Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13249722233	**Mass:** 3ea
Greenbrier, AR 72058	Fort Smith, AR 72903	**Production Run:**	**Date Collected:** 07/07/2025
License: ADH 113	License: 00065C	E20250703M101	**Date Received:** 07/07/2025

Cultivar (Strain) or Sample Description: MAC 1 Solventless Bubble Hash 1.5g Jar — **Date Completed:**07/09/2025

*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.

*Where provided, statements of conformity (e.g. Pass/Fail) are made in accordance with ILAC G8, Binary Statement for Simple Acceptance Rule (w=0, AL=TL). PASS: when the result is within the acceptance interval. FAIL: when the result is outside the acceptance interval

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.

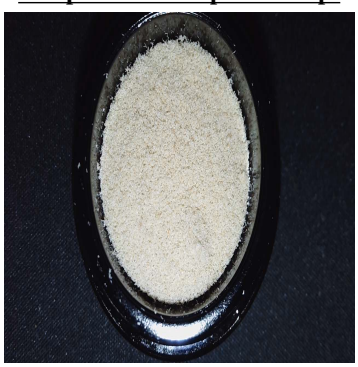
Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

Cannabinoids (Top 3)	(%)	mg/g
THCA	56.1	561
CBGA	1.58	15.8
Δ9-THC	1.07	10.7
TOTAL CBD	0.000	0.000
TOTAL THC	50.3	503
TOTAL CANNABINOIDS	59.0	590

Terpenes (Top 5)	(%)	ppm
β-Caryophyllene	1.79	17900
α-Humulene	1.72	17200
d-Limonene	1.21	12100
α-Bisabolol	0.543	5430
α-Pinene	0.492	4920
TOTAL TERPENES	7.30	73000

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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Kyle W. Felling, Ph.D.
Laboratory Director

REPORT OF LABORATORY ANALYSIS

www.FASTLaboratories.com

F.A.S.T. Personnel perform sampling following the Sampling SOP (SOP-02).

F.A.S.T. LABORATORIES/RESEARCH

A2LA ACCREDITED CERTIFICATE #4473.01

Analyzed on behalf of:

CERTIFICATE OF ANALYSIS (SAMPLE ID: SA41607)

Testing Location:	**Customer ID:** 2168	**Order ID:** OR11682	**Sample Type:** Primary
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Greenbrier, AR 72058	Fort Smith, AR 72903	**Production Run:**	**Date Collected:** 07/07/2025
License: ADH 113	License: 00065C	E20250703M101	**Date Received:** 07/07/2025

Cultivar (Strain) or Sample Description: MAC 1 Solventless Bubble Hash 1.5g Jar — **Date Completed:**07/09/2025

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

Analysis Date/Time: 07/08/2025 1902
Analyst: PW
Method: HPLC/DAD
Instrument: Agilent 1100
Moisture Content (%): -
Water Activity (aw): -

Cannabinoid	Result (%)	Result (mg/g)	LOD (mg/g)	LOQ (mg/g)	Result (mg/mL)	Per Serving (mg)	Per Unit (mg)
CBC	ND	ND	0.106	0.247	-	0.000	0.000
CBCA	ND	ND	0.329	0.768	-	0.000	0.000
CBD	ND	ND	0.747	1.74	-	0.000	0.000
CBDA	ND	ND	0.275	0.642	-	0.000	0.000
CBDV	ND	ND	0.120	0.280	-	0.000	0.000
CBDVA	ND	ND	0.320	0.746	-	0.000	0.000
CBG	ND	ND	0.485	1.13	-	0.000	0.000
CBGA	1.58	15.8	0.688	0.811	-	15.8	15.8
CBL	ND	ND	0.560	1.31	-	0.000	0.000
CBN	ND	ND	0.257	0.601	-	0.000	0.000
CBNA	ND	ND	0.278	0.648	-	0.000	0.000
Δ9-THC	1.07	10.7	0.309	0.719	-	10.7	10.7
Δ8-THC	ND	ND	0.481	1.12	-	0.000	0.000
THCA	56.1	561	0.167	0.391	-	561	561
THCV	ND	ND	0.402	0.936	-	0.000	0.000
THCVA	0.256	2.56	0.128	0.298	-	2.56	2.56
TOTAL	59.0	590			-	590	590
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	1.39	13.9			-	13.9	13.9
TOTAL CBN	0.000	0.000			-	0.000	0.000
TOTAL THC	50.3	503			-	503	503
TOTAL THCV	0.222	2.22			-	2.22	2.22

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.
Dry percent = Wet percent / (1-(Moisture Content/ 100))

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) + Δ9-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.

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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Laboratory Director

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F.A.S.T. LABORATORIES/RESEARCH

A2LA ACCREDITED CERTIFICATE #4473.01

Analyzed on behalf of:

RVR RIVER VALLEY RELIEF

CERTIFICATE OF ANALYSIS (SAMPLE ID: SA41607)

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License: ADH 113	License: 00065C	E20250703M101	**Date Received:** 07/07/2025

Cultivar (Strain) or Sample Description: MAC 1 Solventless Bubble Hash 1.5g Jar **Date Completed:**07/09/2025

TERPENOID PROFILE

Analysis Date/Time:07/08/2025 2011 **Method:** GC/MS **Deviations from SOP:**

Analyst: KF **Instrument:** Agilent 7890/5975 None

Terpene	Result (ppm)	Result (%)
α-Bisabolol	5430	0.543
Camphene	601	0.0601
δ-3-Carene	ND	-
β-Caryophyllene	17900	1.79
Caryophyllene oxide	543	0.0543
p-Cymene	55.0	0.00550
Eucalyptol	<LOQ	-
Geraniol	ND	-
Guaiol	ND	-
α-Humulene	17200	1.72
Isopulegol	ND	-
d-Limonene	12100	1.21
Linalool	3210	0.321
β-Myrcene	2930	0.293
cis-Nerolidol	ND	-
trans-Nerolidol	3020	0.302
α-Ocimene	64.1	0.00641
β-Ocimene	155	0.0155
α-Pinene	4920	0.492
β-Pinene	4800	0.480
α-Terpinene	ND	-
γ-Terpinene	<LOQ	-
Terpinolene	153	0.0153
TOTAL	73000	7.30

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 (ppm): 46.5

"-" Not detected above LOD.

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Cultivar (Strain) or Sample Description: MAC 1 Solventless Bubble Hash 1.5g Jar — **Date Completed:**07/09/2025

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

Analysis Date/Time: 07/07/2025 2238 — **Method:** HS/GC/MS — **Deviations from SOP:**

Analyst: KF — **Instrument:** Agilent 7890/5975 — None

Solvent	Result (ppm)	LOD (ppm)	LOQ (ppm)	Action Level (ppm)
Acetone (67-64-1)	-	36.9	73.8	5000
Acetonitrile (75-5-8)	-	36.9	73.8	410
Benzene (71-43-2)	-	0.369	0.738	2
n-Butane (106-97-2)	-	36.9	73.8	5000
1-Butanol (71-36-3)	-	36.9	73.8	5000
2-Butanol (78-92-2)	-	36.9	73.8	5000
2-Butanone (78-93-3)	-	36.9	73.8	5000
Cyclohexane (110-82-7)	-	36.9	73.8	3880
1,2-Dimethoxyethane (110-71-4)	-	3.69	7.38	100
N,N-Dimethylacetamide (127-19-5)	-	36.9	73.8	1090
2,2-Dimethylbutane (75-83-2)	-	12.9	25.8	290
2,3-Dimethylbutane (79-29-8)	-	12.9	25.8	290
N,N-Dimethylformamide (68-12-2)	-	36.9	73.8	880
Dimethylsulfoxide (67-68-5)	-	36.9	73.8	5000
1,4-Dioxane (123-91-1)	-	36.9	73.8	380
Ethanol (64-17-5)	-	36.9	73.8	5000
2-Ethoxyethanol (110-80-5)	-	12.9	25.8	160
Ethyl ether (60-29-7)	-	36.9	73.8	5000
Ethyl acetate (141-78-6)	-	36.9	73.8	5000
Ethyl benzene (100-41-4)	-	36.9	73.8	2170
Ethylene glycol (107-21-1)	-	36.9	73.8	620
Ethylene oxide (75-21-8)	-	3.69	7.38	50

Solvent	Result (ppm)	LOD (ppm)	LOQ (ppm)	Action Level (ppm)
n-Heptane (142-82-5)	-	36.9	73.8	5000
n-Hexane (110-54-3)	-	12.9	25.8	290
Isobutane (75-28-5)	-	36.9	73.8	5000
Isopropanol (67-63-0)	-	36.9	73.8	5000
Isopropyl acetate (108-21-4)	-	36.9	73.8	5000
Isopropyl benzene (98-82-8)	-	3.69	7.38	70
Methanol (67-56-1)	-	36.9	73.8	3000
2-Methylbutane (78-78-4)	-	36.9	73.8	5000
Methylene chloride (75-9-2)	-	36.9	73.8	600
2-Methylpentane (107-83-5)	-	12.9	25.8	290
3-Methylpentane (96-10-0)	-	12.9	25.8	290
n-Pentane (109-66-0)	-	36.9	73.8	5000
1-Pentanol (71-41-0)	-	36.9	73.8	5000
n-Propane (74-98-6)	-	36.9	73.8	5000
1-Propanol (71-23-8)	-	36.9	73.8	5000
Pyridine (110-86-1)	-	12.9	25.8	200
Tetrahydrofuran (109-99-9)	-	36.9	73.8	720
Tetramethylene sulfone (126-33-0)	-	12.9	25.8	160
Toluene (108-88-3)	-	36.9	73.8	890
o-Xylene (95-47-6)	-	36.9	73.8	2170
m,p-Xylene (108-38-3 or 106-42-3)	-	36.9	73.8	2170
Xylenes* (1330-20-7)	-	43.3	86.7	2170

Color Key

RESULT < AL

RESULT > AL

"-" not detected above 1/2 Action Level

"*" - 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
Dimethysufoxide	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: 07/08/2025 1841 — **Method:** LC/MS/MS — **Deviations from SOP:** None

Analyst: KF — **Instrument:** Shimadzu LC-8050

Pesticide	Result (ppm)	LOD (ppm)	LOQ (ppm)	Action Level (ppm)
Abamectin (71751-41-2)	-	0.0464	0.371	0.5
Acephate (30560-19-1)	-	0.0464	0.371	0.4
Acequinocyl (57960-19-7)	-	0.0464	0.371	2
Acetamiprid (135410-20-7)	-	0.0464	0.371	0.2
Aldicarb (116-06-3)	-	0.0464	0.371	0.4
Azoxystrobin (131860-33-8)	-	0.0464	0.371	0.2
Bifenazate (149877-41-8)	-	0.0464	0.371	0.2
Bifenthrin (82657-04-3)	-	0.0464	0.371	0.2
Boscalid (188425-85-6)	-	0.0464	0.371	0.4
Carbaryl (63-25-2)	-	0.0464	0.371	0.2
Carbofuran (1563-66-2)	-	0.0464	0.371	0.2
Chlorantraniliprole (800008-45-7)	-	0.0464	0.371	0.2
Chlorfenapyr (122453-73-0)	-	0.0464	0.371	1
Chlorpyrifos (2921-88-2)	-	0.0464	0.371	0.2
Clofentezine (74115-24-5)	-	0.0464	0.371	0.2
Cyfluthrin (68359-37-5)	-	0.0464	0.371	1
Cypermethrin (52315-07-8)	-	0.0464	0.371	1
Daminozide (1596-84-5)	-	0.0464	0.371	1
DDVP (62-73-7)	-	0.0464	0.371	0.1
Diazinon (333-41-5)	-	0.0464	0.371	0.2
Dimethoate (60-51-5)	-	0.0464	0.371	0.2
Ethoprophos (13194-48-4)	-	0.0464	0.371	0.2
Etofenprox (80844-07-1)	-	0.0464	0.371	0.4
Etoxazole (153233-91-1)	-	0.0464	0.371	0.2
Fenoxycarb (72490-01-8)	-	0.0464	0.371	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0464	0.371	0.4
Fipronil (120068-37-3)	-	0.0464	0.371	0.4
Flonicamid (158062-67-0)	-	0.0464	0.371	1
Fludioxinil (131341-86-1)	-	0.0464	0.371	0.4
Hexythiazox (78587-05-0)	-	0.0464	0.371	1
Imazalil (35554-44-0)	-	0.0464	0.371	0.2
Imidacloprid (138261-41-3)	-	0.0464	0.371	0.4
Kresoxim-methyl (143390-89-0)	-	0.0464	0.371	0.4
Malathion (121-75-5)	-	0.0464	0.371	0.2
Metalaxyl (57837-19-1)	-	0.0464	0.371	0.2
Methiocarb (2032-65-7)	-	0.0464	0.371	0.2
Methomyl (16752-77-5)	-	0.0464	0.371	0.4
Methyl parathion (298-0-0)	-	0.0464	0.371	0.2
MGK 264 (113-48-4)	-	0.0464	0.371	0.2
Myclobutanil (88671-89-0)	-	0.0464	0.371	0.2
Naled (300-76-5)	-	0.0464	0.371	0.5
Oxamyl (23135-22-0)	-	0.0464	0.371	1
Paclobutrazol (76738-62-0)	-	0.0464	0.371	0.4
Permethrins (52645-53-1)	-	0.0464	0.371	0.2
Phosmet (732-11-6)	-	0.0464	0.371	0.2
Piperonyl butoxide (51-03-6)	-	0.0464	0.371	2
Prallethrins (2331-36-9)	-	0.0464	0.371	0.2
Propiconazole (60207-90-1))	-	0.0464	0.371	0.4
Propoxur (114-26-1)	-	0.0464	0.371	0.2
Pyrethrins (8003-34-7)	-	0.0464	0.371	1
Pyridaben (96489-71-3)	-	0.0464	0.371	0.2
Spinosad (168316-95-8)	-	0.0464	0.371	0.2
Spiromesifen (283594-90-1)	-	0.0464	0.371	0.2
Spirotetramat (203313-25-1)	-	0.0464	0.371	0.2
Spiroxamine (118134-30-8)	-	0.0464	0.371	0.4
Tebuconazole (80443-41-0)	-	0.0464	0.371	0.4
Thiacloprid (111988-49-9)	-	0.0464	0.371	0.2
Thiamethoxam (153719-23-4)	-	0.0464	0.371	0.2
Trifloxystrobin (141517-21-7)	-	0.0464	0.371	0.2

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	Systhane	Propiconazole	Tilt
DDVP	Dichlorvos	Naled	Dibrom	Propoxur	Baygon
Ethoprophos	Prophos	Phosmet	Imidan		

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232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13249722233	**Mass:** 3ea
Greenbrier, AR 72058	Fort Smith, AR 72903	**Production Run:**	**Date Collected:** 07/07/2025
License: ADH 113	License: 00065C	E20250703M101	**Date Received:** 07/07/2025

Cultivar (Strain) or Sample Description: MAC 1 Solventless Bubble Hash 1.5g Jar — **Date Completed:**07/09/2025

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

Analysis Date/Time: 07/08/2025 1855

Method: ICP/MS

Instrument: Agilent 7700x

Deviations from SOP: None

Analyst: KF

Heavy Metal	Result (ppb)	LOD (ppb)	LOQ (ppb)	Action Level (ppb)
Arsenic (As)	ND	59.8	94.7	200
Cadmium (Cd)	ND	59.8	94.7	200
Lead (Pb)	ND	59.8	94.7	500
Mercury (Hg)	ND	59.8	94.7	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.

Kyle W. Felling, Ph.D.
Laboratory Director

www.FASTLaboratories.com

F.A.S.T. Personnel perform sampling following the Sampling SOP (SOP-02).

F.A.S.T. LABORATORIES/RESEARCH

A2LA ACCREDITED CERTIFICATE #4473.01

Analyzed on behalf of:

RVR RIVER VALLEY RELIEF

CERTIFICATE OF ANALYSIS (SAMPLE ID: SA41607)

Testing Location:	**Customer ID:** 2168	**Sample ID:** SA41607	**Sample Type:** Primary
Arkansas	River Valley Relief MIPS	**Lot Number:**	**Matrix:** Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13249722233	**Mass:** 3ea
Greenbrier, AR 72058	Fort Smith, AR 72903	**Production Run:**	**Date Collected:** 07/07/2025
-	License: 00065C	E20250703M101	**Date Received:** 07/07/2025

Cultivar (Strain) or Sample Description: MAC 1 Solventless Bubble Hash 1.5g Jar — **Date Completed:**07/09/2025

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 07/08/2025 1502 — **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	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

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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Kyle W. Felling, Ph.D.
Laboratory Director

REPORT OF LABORATORY ANALYSIS

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F.A.S.T. Personnel perform sampling following the Sampling SOP (SOP-02).