

SUMMARY OF ANALYSIS (SAMPLE ID: SA40170)

Testing Location:	Customer ID: 2168	Order ID: OR11431	Sample Type: Primary
Arkansas	River Valley Relief MIPS	Lot Number:	Matrix: Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13246405800	Mass: 8ea
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 02/06/2025
License: ADH 113	License: 00065C	E20250206KLPLRO1	Date Received: 02/06/2025
Cultivar (Strain) or Sample Description: Key Lime Pie Solventless Live Hash Rosin .5g Jar			Date Completed: 02/09/2025

*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.

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.

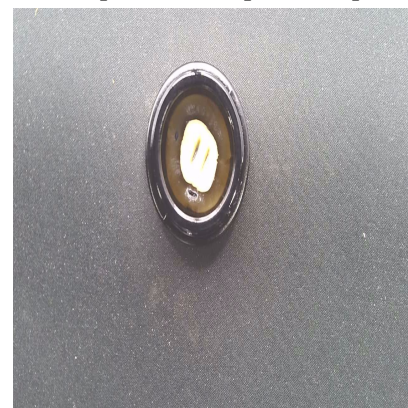
Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

Cannabinoids (Top 3)	(%)	mg/g
THCA	79.0	790
CBGA	3.32	33.2
Δ9-THC	0.996	9.96
TOTAL CBD	0.000	0.000
TOTAL THC	70.3	703
TOTAL CANNABINOIDS	83.8	838

Terpenes (Top 5)	(%)	µg/g
β-Myrcene	1.60	16000
β-Caryophyllene	1.30	13000
d-Limonene	0.997	9970
Linalool	0.824	8240
α-Humulene	0.577	5770
TOTAL TERPENES	6.28	62800

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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www.FASTLaboratories.com

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



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA40170)

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

Analysis Date/Time: 02/07/2025 1831

Method: HPLC/DAD

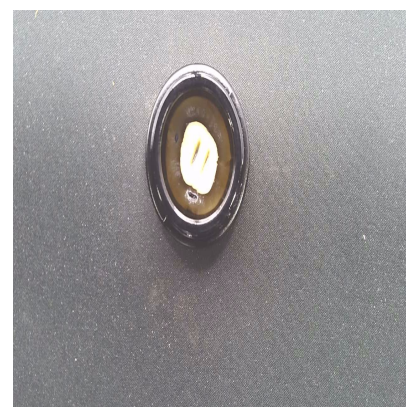
Moisture Content (%): -

Analyst: PW

Instrument: Agilent 1100

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	0.107	0.249	-	0.000	0.000
CBCA	ND	ND	0.332	0.774	-	0.000	0.000
CBD	ND	ND	0.753	1.76	-	0.000	0.000
CBDV	ND	ND	0.277	0.648	-	0.000	0.000
CBDVA	ND	ND	0.121	0.282	-	0.000	0.000
CBDVA	ND	ND	0.322	0.753	-	0.000	0.000
CBG	ND	ND	0.489	1.14	-	0.000	0.000
CBGA	3.32	33.2	0.693	0.818	-	33.2	33.2
CBL	ND	ND	0.565	1.32	-	0.000	0.000
CBN	ND	ND	0.260	0.606	-	0.000	0.000
CBNA	ND	ND	0.280	0.653	-	0.000	0.000
CBT	ND	ND	0.407	0.948	-	0.000	0.000
Δ9-THC	0.996	9.96	0.311	0.725	-	9.96	9.96
Δ8-THC	ND	ND	0.485	1.13	-	0.000	0.000
THCA	79.0	790	0.169	0.395	-	790	790
THCV	ND	ND	0.405	0.944	-	0.000	0.000
THCVA	0.478	4.78	0.129	0.301	-	4.78	4.78
TOTAL	83.8	838			-	838	838
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	2.91	29.1			-	29.1	29.1
TOTAL CBN	0.000	0.000			-	0.000	0.000
TOTAL THC	70.3	703			-	703	703
TOTAL THCV	0.414	4.14			-	4.14	4.14



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 = (CBDV 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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License: ADH 113	License: 00065C	E20250206KLPLRO1	Date Received: 02/06/2025
Cultivar (Strain) or Sample Description: Key Lime Pie Solventless Live Hash Rosin .5g Jar			Date Completed: 02/09/2025

TERPENOID PROFILE

Analysis Date/Time: 02/07/2025 2222

Method: GC/MS

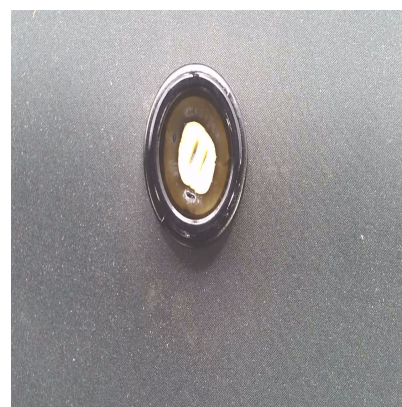
Deviations from SOP:

Analyst: KF

Instrument: Agilent 7890/5975

None

Terpene	Result (µg/g)	Result (%)	
α-Bisabolol	1980	0.198	
Camphene	484	0.0484	
δ-3-Carene	173	0.0173	
β-Caryophyllene	13000	1.30	
Caryophyllene oxide	302	0.0302	
p-Cymene	140	0.0140	
Eucalyptol	83.1	0.00831	
Geraniol	607	0.0607	
Guaiol	ND	-	
α-Humulene	5770	0.577	
Isopulegol	197	0.0197	
d-Limonene	9970	0.997	
Linalool	8240	0.824	
β-Myrcene	16000	1.60	
cis-Nerolidol	ND	-	
trans-Nerolidol	1750	0.175	
α-Ocimene	170	0.0170	
β-Ocimene	434	0.0434	
α-Pinene	1150	0.115	
β-Pinene	2000	0.200	
α-Terpinene	174	0.0174	
γ-Terpinene	94.4	0.00944	
Terpinolene	166	0.0166	
TOTAL	62800	6.28	



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): 46.9

"-" Not detected above LOD.

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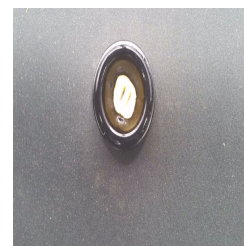
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License: ADH 113	License: 00065C	E20250206KPLPLRO1	Date Received: 02/06/2025
Cultivar (Strain) or Sample Description: Key Lime Pie Solventless Live Hash Rosin .5g Jar			Date Completed: 02/09/2025

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

Analysis Date/Time: 02/06/2025 2322	Method: HS/GC/MS	Deviations from SOP:
Analyst: KF	Instrument: Agilent 7890/5975	None

<u>Solvent</u>	<u>Result</u> (µg/g)	<u>LOD</u> (µg/g)	<u>LOQ</u> (µg/g)	<u>Action Level</u> (µg/g)	<u>Solvent</u>	<u>Result</u> (µg/g)	<u>LOD</u> (µg/g)	<u>LOQ</u> (µg/g)	<u>Action Level</u> (µg/g)
Acetone (67-64-1)	-	27.7	55.3	5000	n-Heptane (142-82-5)	-	27.7	55.3	5000
Acetonitrile (75-5-8)	-	27.7	55.3	410	n-Hexane (110-54-3)	-	9.68	19.4	290
Benzene (71-43-2)	-	0.277	0.553	2	Isobutane (75-28-5)	-	27.7	55.3	5000
n-Butane (106-97-2)	-	27.7	55.3	5000	Isopropanol (67-63-0)	-	27.7	55.3	5000
1-Butanol (71-36-3)	-	27.7	55.3	5000	Isopropyl acetate (108-21-4)	-	27.7	55.3	5000
2-Butanol (78-92-2)	-	27.7	55.3	5000	Isopropyl benzene (98-82-8)	-	2.77	5.53	70
2-Butanone (78-93-3)	-	27.7	55.3	5000	Methanol (67-56-1)	-	27.7	55.3	3000
Cyclohexane (110-82-7)	-	27.7	55.3	3880	2-Methylbutane (78-78-4)	-	27.7	55.3	5000
1,2-Dimethoxyethane (110-71-4)	-	2.77	5.53	100	Methylene chloride (75-9-2)	-	27.7	55.3	600
N,N-Dimethylacetamide (127-19-5)	-	27.7	55.3	1090	2-Methylpentane (107-83-5)	-	9.68	19.4	290
2,2-Dimethylbutane (75-83-2)	-	9.68	19.4	290	3-Methylpentane (96-10-0)	-	9.68	19.4	290
2,3-Dimethylbutane (79-29-8)	-	9.68	19.4	290	n-Pentane (109-66-0)	-	27.7	55.3	5000
N,N-Dimethylformamide (68-12-2)	-	27.7	55.3	880	1-Pentanol (71-41-0)	-	27.7	55.3	5000
Dimethylsulfoxide (67-68-5)	-	27.7	55.3	5000	n-Propane (74-98-6)	-	27.7	55.3	5000
1,4-Dioxane (123-91-1)	-	27.7	55.3	380	1-Propanol (71-23-8)	-	27.7	55.3	5000
Ethanol (64-17-5)	-	27.7	55.3	5000	Pyridine (110-86-1)	-	9.68	19.4	200
2-Ethoxyethanol (110-80-5)	-	9.68	19.4	160	Tetrahydrofuran (109-99-9)	-	27.7	55.3	720
Ethyl ether (60-29-7)	-	27.7	55.3	5000	Tetramethylene sulfone (126-33-0)	-	9.68	19.4	160
Ethyl acetate (141-78-6)	-	27.7	55.3	5000	Toluene (108-88-3)	-	27.7	55.3	890
Ethyl benzene (100-41-4)	-	27.7	55.3	2170	o-Xylene (95-47-6)	-	27.7	55.3	2170
Ethylene glycol (107-21-1)	-	27.7	55.3	620	mp-Xylene (108-38-3 or 106-42-3)	-	27.7	55.3	2170
Ethylene oxide (75-21-8)	-	2.77	5.53	50	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.

<u>Solvent</u>	<u>Synonym(s)</u>	<u>Solvent</u>	<u>Synonym(s)</u>
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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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: OR11431 Lot Number: M00065C13246405800 Production Run: E20250206KLPLRO1	Sample Type: Primary Matrix: Concentrate Mass: 8ea Date Collected: 02/06/2025 Date Received: 02/06/2025
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Cultivar (Strain) or Sample Description: Key Lime Pie Solventless Live Hash Rosin .5g Jar **Date Completed:** 02/09/2025

PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 02/07/2025 1857

Analyst: KF

Method: LC/MS/MS

Instrument: Shimadzu LC-8050

Deviations from SOP:

None

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)	-	0.0466	0.373	0.5	Kresoxim-methyl (143390-89-0)	-	0.0466	0.373	0.4
Acephate (30560-19-1)	-	0.0466	0.373	0.4	Malathion (121-75-5)	-	0.0466	0.373	0.2
Acetaminophen (57960-19-7)	-	0.0466	0.373	2	Metalaxyl (57837-19-1)	-	0.0466	0.373	0.2
Acetamiprid (135410-20-7)	-	0.0466	0.373	0.2	Methiocarb (2032-65-7)	-	0.0466	0.373	0.2
Aldicarb (116-06-3)	-	0.0466	0.373	0.4	Methomyl (16752-77-5)	-	0.0466	0.373	0.4
Azoxystrobin (131860-33-8)	-	0.0466	0.373	0.2	Methyl parathion (298-0-0)	-	0.0466	0.373	0.2
Bifenazate (149877-41-8)	-	0.0466	0.373	0.2	MGK 264 (113-48-4)	-	0.0466	0.373	0.2
Bifenthrin (82657-04-3)	-	0.0466	0.373	0.2	Myclobutanil (88671-89-0)	-	0.0466	0.373	0.2
Boscalid (188425-85-6)	-	0.0466	0.373	0.4	Naled (300-76-5)	-	0.0466	0.373	0.5
Carbaryl (63-25-2)	-	0.0466	0.373	0.2	Oxamyl (23135-22-0)	-	0.0466	0.373	1
Carbofuran (1563-66-2)	-	0.0466	0.373	0.2	Paclobutrazol (76738-62-0)	-	0.0466	0.373	0.4
Chlorantraniliprole (800008-45-7)	-	0.0466	0.373	0.2	Permethrins (52645-53-1)	-	0.0466	0.373	0.2
Chlorfenapyr (122453-73-0)	-	0.0466	0.373	1	Phosmet (732-11-6)	-	0.0466	0.373	0.2
Chlorpyrifos (2921-88-2)	-	0.0466	0.373	0.2	Piperonyl butoxide (51-03-6)	-	0.0466	0.373	2
Clofentezine (74115-24-5)	-	0.0466	0.373	0.2	Prallethrin (2331-36-9)	-	0.0466	0.373	0.2
Cyfluthrin (68359-37-5)	-	0.0466	0.373	1	Propiconazole (60207-90-1)	-	0.0466	0.373	0.4
Cypermethrin (52315-07-8)	-	0.0466	0.373	1	Propoxur (114-26-1)	-	0.0466	0.373	0.2
Daminozide (1596-84-5)	-	0.0466	0.373	1	Pyrethrins (8003-34-7)	-	0.0466	0.373	1
DDVP (62-73-7)	-	0.0466	0.373	0.1	Pyridaben (96489-71-3)	-	0.0466	0.373	0.2
Diazinon (333-41-5)	-	0.0466	0.373	0.2	Spinosad (168316-95-8)	-	0.0466	0.373	0.2
Dimethoate (60-51-5)	-	0.0466	0.373	0.2	Spiromesifen (283594-90-1)	-	0.0466	0.373	0.2
Ethoprophos (13194-48-4)	-	0.0466	0.373	0.2	Spirotetramat (203313-25-1)	-	0.0466	0.373	0.2
Etofenprox (80844-07-1)	-	0.0466	0.373	0.4	Spiroxamine (118134-30-8)	-	0.0466	0.373	0.4
Etoxazole (153233-91-1)	-	0.0466	0.373	0.2	Tebuconazole (80443-41-0)	-	0.0466	0.373	0.4
Fenoxycarb (72490-01-8)	-	0.0466	0.373	0.2	Thiacloprid (111988-49-9)	-	0.0466	0.373	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0466	0.373	0.4	Thiamethoxam (153719-23-4)	-	0.0466	0.373	0.2
Fipronil (120068-37-3)	-	0.0466	0.373	0.4	Trifloxystrobin (141517-21-7)	-	0.0466	0.373	0.2
Flonicamid (158062-67-0)	-	0.0466	0.373	1					
Fludioxinil (131341-86-1)	-	0.0466	0.373	0.4					
Hexythiazox (78587-05-0)	-	0.0466	0.373	1					
Imazalil (35554-44-0)	-	0.0466	0.373	0.2					
Imidacloprid (138261-41-3)	-	0.0466	0.373	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.

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	Synonym(s)
Cyfluthrin	Baythroid	Myclobutanil	Systhane	Propiconazole	Tilt
DDVP	Dichlorvos	Naled	Dibrom	Propoxur	Baygon
Ethoprophos	Prophos	Phosmet	Imidan		

REPORT OF LABORATORY ANALYSIS

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CERTIFICATE OF ANALYSIS (SAMPLE ID: SA40170)

Testing Location:	Customer ID: 2168	Order ID: OR11431	Sample Type: Primary
Arkansas	River Valley Relief MIPS	Lot Number:	Matrix: Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13246405800	Mass: 8ea
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 02/06/2025
License: ADH 113	License: 00065C	E20250206KLPLRO1	Date Received: 02/06/2025
Cultivar (Strain) or Sample Description: Key Lime Pie Solventless Live Hash Rosin .5g Jar			Date Completed: 02/09/2025

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

Analysis Date/Time: 02/07/2025 1902

Method: ICP/MS

Deviations from SOP:

Instrument: Agilent 7500ce

None

Analyst: KF

Heavy Metal	Result (µg/kg)	LOD (µg/kg)	LOQ (µg/kg)	Action Level (µg/kg)
Arsenic (As)	-	58.6	92.7	200
Cadmium (Cd)	-	58.6	92.7	200
Lead (Pb)	-	58.6	92.7	500
Mercury (Hg)	-	58.6	92.7	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.

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License: ADA 05_H273	License: 00065C	E20250206KLPLRO1	Date Received: 02/06/2025
Cultivar (Strain) or Sample Description: Key Lime Pie Solventless Live Hash Rosin .5g Jar			Date Completed: 02/09/2025

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 02/07/2025 1147	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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Laboratory Director

