

SUMMARY OF ANALYSIS (SAMPLE ID: SA36425)

Testing Location:	Customer ID: 2168	Order ID: OR10701	Sample Type: Primary
Arkansas	River Valley Relief MIPS	Lot Number:	Matrix: Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13244936466	Mass: 4grams
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 11/13/2023
License: ADH 113	License: 00065C	E20231110TFSLHR01	Date Received: 11/13/2023
Cultivar (Strain) or Sample Description: Truffle Shuffle Solventless Live Hash Rosin			Date Completed: 11/15/2023

*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.

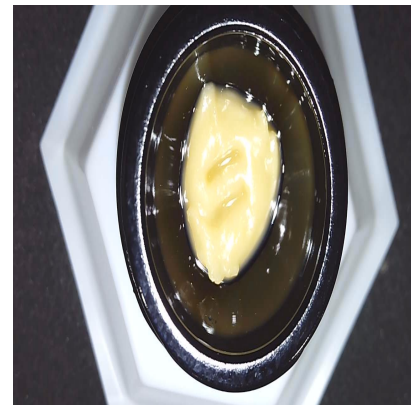
Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

Cannabinoids (Top 3)	(%)	mg/g
THCA	75.7	757
CBGA	1.26	12.6
Δ9-THC	0.862	8.62
TOTAL CBD	-	-
TOTAL THC	67.3	673
TOTAL CANNABINOIDS	78.8	788

Terpenes (Top 5)	(%)	µg/g
d-Limonene	3.09	30900
β-Caryophyllene	0.996	9960
β-Pinene	0.673	6730
α-Pinene	0.658	6580
α-Humulene	0.373	3730
TOTAL TERPENES	6.65	66500

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
Kyle W. Felling, Ph.D.
Laboratory Director



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA36425)

Testing Location:	Customer ID: 2168	Order ID: OR10701	Sample Type: Primary
Arkansas	River Valley Relief MIPS	Lot Number:	Matrix: Concentrate
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License: ADH 113	License: 00065C	E20231110TFSLHR01	Date Received: 11/13/2023

Cultivar (Strain) or Sample Description: Truffle Shuffle Solventless Live Hash Rosin **Date Completed:** 11/15/2023

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

Analysis Date/Time: 11/14/2023 1605

Method: HPLC/DAD

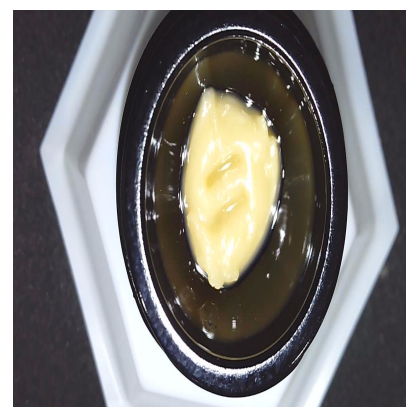
Moisture Content (%): -

Analyst: PW

Instrument: Agilent 1100

Water Activity (aw): -

<u>Cannabinoid</u>	<u>Result</u> <u>(%)</u>	<u>Result</u> <u>(mg/g)</u>	<u>LOD</u> <u>(mg/g)</u>	<u>LOQ</u> <u>(mg/g)</u>	<u>Result</u> <u>(mg/</u> <u>mL)</u>	<u>Per</u> <u>Serving</u> <u>(mg)</u>	<u>Per</u> <u>Unit</u> <u>(mg)</u>
CBC	ND	ND	0.0996	0.232	-	-	-
CBCA	ND	ND	0.309	0.722	-	-	-
CBD	ND	ND	0.702	1.64	-	-	-
CBDV	ND	ND	0.259	0.604	-	-	-
CBDVA	ND	ND	0.113	0.263	-	-	-
CBG	0.339	3.39	0.301	0.701	-	-	-
CBGA	1.26	12.6	0.456	1.06	-	3.39	3.39
CBL	ND	ND	0.646	0.763	-	12.6	12.6
CBN	ND	ND	0.527	1.23	-	-	-
CBNA	ND	ND	0.242	0.565	-	-	-
Δ9-THC	0.862	8.62	0.261	0.609	-	-	-
Δ8-THC	ND	ND	0.290	0.676	-	8.62	8.62
THCA	75.7	757	0.453	1.06	-	-	-
THCV	ND	ND	0.157	0.368	-	757	757
THCVA	0.610	6.10	0.377	0.880	-	-	-
THCVA	0.610	6.10	0.121	0.280	-	6.10	6.10
TOTAL	78.8	788			-	788	788
TOTAL CBC	-	-			-	-	-
TOTAL CBD	-	-			-	-	-
TOTAL CBDV	-	-			-	-	-
TOTAL CBG	1.45	14.5			-	14.5	14.5
TOTAL CBN	-	-			-	-	-
TOTAL THC	67.3	673			-	673	673
TOTAL THCV	0.529	5.29			-	5.29	5.29



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 0.877) + 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

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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Percentage results are reported by mass.

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

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Laboratory Director



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA36425)

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License: ADH 113	License: 00065C	E20231110TFLHR01	Date Received: 11/13/2023

Cultivar (Strain) or Sample Description: Truffle Shuffle Solventless Live Hash Rosin **Date Completed:** 11/15/2023

TERPENOID PROFILE

Analysis Date/Time: 11/15/2023 0207

Method: GC/MS

Deviations from SOP:

Analyst: KF

Instrument: Agilent 7890/5975

None

Terpene	Result (µg/g)	Result (%)
α-Bisabolol	961	0.0961
Camphene	903	0.0903
δ-3-Carene	ND	-
β-Caryophyllene	9960	0.996
Caryophyllene oxide	ND	-
p-Cymene	146	0.0146
Eucalyptol	ND	-
Geraniol	ND	-
Guaiol	2560	0.256
α-Humulene	3730	0.373
Isopulegol	ND	-
d-Limonene	30900	3.09
Linalool	349	0.0349
β-Myrcene	757	0.0757
cis-Nerolidol	670	0.0670
trans-Nerolidol	1310	0.131
α-Ocimene	ND	-
β-Ocimene	408	0.0408
α-Pinene	6580	0.658
β-Pinene	6730	0.673
α-Terpinene	ND	-
γ-Terpinene	ND	-
Terpinolene	524	0.0524
TOTAL	66500	6.65



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): 72.8

"-" Not detected above LOD.

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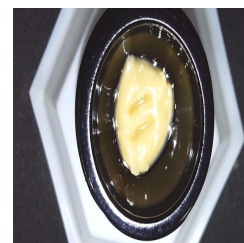
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License: ADH 113	License: 00065C	E20231110TFSLHR01	Date Received: 11/13/2023

Cultivar (Strain) or Sample Description: Truffle Shuffle Solventless Live Hash Rosin **Date Completed:** 11/15/2023

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

Analysis Date/Time: 11/14/2023 2228 **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)	-	137	274	5000	n-Heptane (142-82-5)	-	137	274	5000
Acetonitrile (75-5-8)	-	137	274	410	n-Hexane (110-54-3)	-	47.9	95.9	290
Benzene (71-43-2)	-	1.37	2.74	2	Isobutane (75-28-5)	-	137	274	5000
n-Butane (106-97-2)	-	137	274	5000	Isopropanol (67-63-0)	-	137	274	5000
1-Butanol (71-36-3)	-	137	274	5000	Isopropyl acetate (108-21-4)	-	137	274	5000
2-Butanol (78-92-2)	-	137	274	5000	Isopropyl benzene (98-82-8)	-	13.7	27.4	70
2-Butanone (78-93-3)	-	137	274	5000	Methanol (67-56-1)	-	137	274	3000
Cyclohexane (110-82-7)	-	137	274	3880	2-Methylbutane (78-78-4)	-	137	274	5000
1,2-Dimethoxyethane (110-71-4)	-	13.7	27.4	100	Methylene chloride (75-9-2)	-	137	274	600
N,N-Dimethylacetamide (127-19-5)	-	137	274	1090	2-Methylpentane (107-83-5)	-	47.9	95.9	290
2,2-Dimethylbutane (75-83-2)	-	47.9	95.9	290	3-Methylpentane (96-10-0)	-	47.9	95.9	290
2,3-Dimethylbutane (79-29-8)	-	47.9	95.9	290	n-Pentane (109-66-0)	-	137	274	5000
N,N-Dimethylformamide (68-12-2)	-	137	274	880	1-Pentanol (71-41-0)	-	137	274	5000
Dimethylsulfoxide (67-68-5)	-	137	274	5000	n-Propane (74-98-6)	-	137	274	5000
1,4-Dioxane (123-91-1)	-	137	274	380	1-Propanol (71-23-8)	-	137	274	5000
Ethanol (64-17-5)	-	137	274	5000	Pyridine (110-86-1)	-	47.9	95.9	200
2-Ethoxyethanol (110-80-5)	-	47.9	95.9	160	Tetrahydrofuran (109-99-9)	-	137	274	720
Ethyl ether (60-29-7)	-	137	274	5000	Tetramethylene sulfone (126-33-0)	-	47.9	95.9	160
Ethyl acetate (141-78-6)	-	137	274	5000	Toluene (108-88-3)	-	137	274	890
Ethyl benzene (100-41-4)	-	137	274	2170	o-Xylene (95-47-6)	-	137	274	2170
Ethylene glycol (107-21-1)	-	137	274	620	m,p-Xylene (108-38-3 or 106-42-3)	-	137	274	2170
Ethylene oxide (75-21-8)	-	13.7	27.4	50	Xylenes* (1330-20-7)	-	43.3	86.7	2170



Color Key

RESULT < AL

RESULT > AL

"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.

<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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Cultivar (Strain) or Sample Description: Truffle Shuffle Solventless Live Hash Rosin **Date Completed:** 11/15/2023

PESTICIDES PROFILE (SOP: SOP-PEST-001)

Analysis Date/Time: 11/14/2023 1709

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)	-	0.0435	0.348	0.5	Kresoxim-methyl (143390-89-0)	-	0.0435	0.348	0.4
Acephate (30560-19-1)	-	0.0435	0.348	0.4	Malathion (121-75-5)	-	0.0435	0.348	0.2
Acetaminophen (57960-19-7)	-	0.0435	0.348	2	Metalaxyl (57837-19-1)	-	0.0435	0.348	0.2
Acetamiprid (135410-20-7)	-	0.0435	0.348	0.2	Methiocarb (2032-65-7)	-	0.0435	0.348	0.2
Aldicarb (116-06-3)	-	0.0435	0.348	0.4	Methomyl (16752-77-5)	-	0.0435	0.348	0.4
Azoxystrobin (131860-33-8)	-	0.0435	0.348	0.2	Methyl parathion (298-0-0)	-	0.0435	0.348	0.2
Bifenazate (149877-41-8)	-	0.0435	0.348	0.2	MGK 264 (113-48-4)	-	0.0435	0.348	0.2
Bifenthrin (82657-04-3)	-	0.0435	0.348	0.2	Myclobutanil (88671-89-0)	-	0.0435	0.348	0.2
Boscalid (188425-85-6)	-	0.0435	0.348	0.4	Naled (300-76-5)	-	0.0435	0.348	0.5
Carbaryl (63-25-2)	-	0.0435	0.348	0.2	Oxamyl (23135-22-0)	-	0.0435	0.348	1
Carbofuran (1563-66-2)	-	0.0435	0.348	0.2	Paclobutrazol (76738-62-0)	-	0.0435	0.348	0.4
Chlorantraniliprole (800008-45-7)	-	0.0435	0.348	0.2	Permethrins (52645-53-1)	-	0.0435	0.348	0.2
Chlorfenapyr (122453-73-0)	-	0.0435	0.348	1	Phosmet (732-11-6)	-	0.0435	0.348	0.2
Chlorpyrifos (2921-88-2)	-	0.0435	0.348	0.2	Piperonyl butoxide (51-03-6)	-	0.0435	0.348	2
Clofentezine (74115-24-5)	-	0.0435	0.348	0.2	Prallethrin (2331-36-9)	-	0.0435	0.348	0.2
Cyfluthrin (68359-37-5)	-	0.0435	0.348	1	Propiconazole (60207-90-1)	-	0.0435	0.348	0.4
Cypermethrin (52315-07-8)	-	0.0435	0.348	1	Propoxur (114-26-1)	-	0.0435	0.348	0.2
Daminozide (1596-84-5)	-	0.0435	0.348	1	Pyrethrins (8003-34-7)	-	0.0435	0.348	1
DDVP (62-73-7)	-	0.0435	0.348	0.1	Pyridaben (96489-71-3)	-	0.0435	0.348	0.2
Diazinon (333-41-5)	-	0.0435	0.348	0.2	Spinosad (168316-95-8)	-	0.0435	0.348	0.2
Dimethoate (60-51-5)	-	0.0435	0.348	0.2	Spiromesifen (283594-90-1)	-	0.0435	0.348	0.2
Ethoprophos (13194-48-4)	-	0.0435	0.348	0.2	Spirotetramat (203313-25-1)	-	0.0435	0.348	0.2
Etofenprox (80844-07-1)	-	0.0435	0.348	0.4	Spiroxamine (118134-30-8)	-	0.0435	0.348	0.4
Etazoxole (153233-91-1)	-	0.0435	0.348	0.2	Tebuconazole (80443-41-0)	-	0.0435	0.348	0.4
Fenoxycarb (72490-01-8)	-	0.0435	0.348	0.2	Thiacloprid (111988-49-9)	-	0.0435	0.348	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0435	0.348	0.4	Thiamethoxam (153719-23-4)	-	0.0435	0.348	0.2
Fipronil (120068-37-3)	-	0.0435	0.348	0.4	Trifloxystrobin (141517-21-7)	-	0.0435	0.348	0.2
Flonicamid (158062-67-0)	-	0.0435	0.348	1					
Fludioxinil (131341-86-1)	-	0.0435	0.348	0.4					
Hexythiazox (78587-05-0)	-	0.0435	0.348	1					
Imazalil (35554-44-0)	-	0.0435	0.348	0.2					
Imidacloprid (138261-41-3)	-	0.0435	0.348	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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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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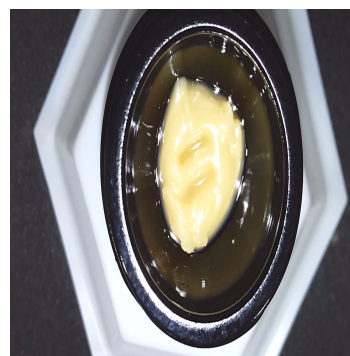
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Cultivar (Strain) or Sample Description: Truffle Shuffle Solventless Live Hash Rosin			Date Completed: 11/15/2023

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

Analysis Date/Time: 11/14/2023 1803 (ICP/OES)	Method: ICP/MS	Deviations from SOP:
Analysis Date/Time: - (DMA)	Instrument: Agilent 7500ce	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)	-	57.5	91.0	200
Cadmium (Cd)	-	57.5	91.0	200
Lead (Pb)	-	57.5	91.0	500
Mercury (Hg)	-	57.5	91.0	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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Laboratory Director



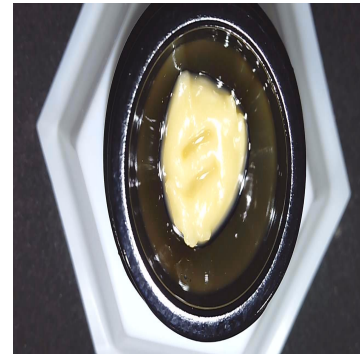
CERTIFICATE OF ANALYSIS (SAMPLE ID: SA36425)

Testing Location:	Customer ID: 2168	Sample ID: SA36425	Sample Type: Primary
Arkansas	River Valley Relief MIPS	Lot Number:	Matrix: Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13244936466	Mass: 4grams
Greenbrier, AR 72058	Fort Smith, AR 72903	Production Run:	Date Collected: 11/13/2023
License: ADA 05_H273	License: 00065C	E20231110TFSLHR01	Date Received: 11/13/2023
Cultivar (Strain) or Sample Description: Truffle Shuffle Solventless Live Hash Rosin			Date Completed: 11/15/2023

MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)

Analysis Date/Time: 11/15/2023 0948	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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