

**SUMMARY OF ANALYSIS (SAMPLE ID: SA34274)**

<b>Testing Location:</b>	<b>Customer ID:</b> 2168	<b>Order ID:</b> OR10292	<b>Sample Type:</b> Primary
Arkansas	River Valley Relief MIPS	<b>Lot Number:</b>	<b>Matrix:</b> Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13243094501	<b>Mass:</b> 4g
Greenbrier, AR 72058	Fort Smith, AR 72903	<b>Production Run:</b>	<b>Date Collected:</b> 02/06/2023
License: ADH 113	License: 00065C	E20230206CSLLB01	<b>Date Received:</b> 02/06/2023
<b>Cultivar (Strain) or Sample Description:</b> Creamsicle Hybrid Live Budder 1g Jar			<b>Date Completed:</b> 02/09/2023

\*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.

<b>Cannabinoids (Top 3)</b>	<b>(%)</b>	<b>mg/g</b>
THCA	74.0	740
CBCA	1.08	10.8
CBGA	1.06	10.6
TOTAL CBD	-	-
TOTAL THC	65.5	655
TOTAL CANNABINOIDS	79.1	791

<b>Terpenes (Top 5)</b>	<b>(%)</b>	<b>µg/g</b>
d-Limonene	2.17	21700
β-Caryophyllene	1.92	19200
β-Myrcene	1.36	13600
Caryophyllene oxide	0.907	9070
α-Humulene	0.770	7700
TOTAL TERPENES	8.62	86200

<b>Contaminants</b>	<b>PASS/FAIL</b>
Heavy Metals:	<b>PASS</b>
Microbiology:	<b>PASS</b>
Pesticides:	<b>PASS</b>
Residual Solvents:	<b>PASS</b>

**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



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

**Analysis Date/Time:** 2/7/2023 1430

**Method:** HPLC/DAD

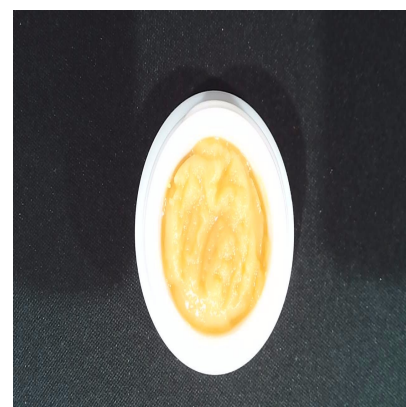
**Moisture Content (%):** -

**Analyst:** PW

**Instrument:** Agilent 1100

**Water Activity (aw):** -

<b>Cannabinoid</b>	<b>Result (%)</b>	<b>UM (+/-%)</b>	<b>Result (mg/g)</b>	<b>LOQ (mg/g)</b>	<b>Result (mg/mL)</b>	<b>Per Serving (mg)</b>	<b>Per Unit (mg)</b>
CBC	-	-	-	1.16	-	-	-
CBCA	1.08	0.0864	10.8	3.61	-	10.8	10.8
CBD	-	-	-	8.21	-	-	-
CBDA	-	-	-	3.02	-	-	-
CBDV	-	-	-	1.32	-	-	-
CBDVA	-	-	-	3.51	-	-	-
CBG	-	-	-	5.33	-	-	-
CBGA	1.06	0.0958	10.6	3.82	-	10.6	10.6
CBL	1.02	0.153	10.2	6.16	-	10.2	10.2
CBN	-	-	-	2.83	-	-	-
CBNA	-	-	-	3.05	-	-	-
Δ9-THC	0.617	0.0555	6.17	3.39	-	6.17	6.17
Δ8-THC	0.778	0.0700	7.78	5.29	-	7.78	7.78
THCA	74.0	6.66	740	1.84	-	740	740
THCV	-	-	-	4.41	-	-	-
THCVA	0.565	0.0170	5.65	1.40	-	5.65	5.65
<b>TOTAL</b>	<b>79.1</b>	<b>7.14</b>	<b>791</b>		<b>-</b>	<b>791</b>	<b>791</b>
<b>TOTAL CBC</b>	<b>0.947</b>	<b>0.0757</b>	<b>9.47</b>		<b>-</b>	<b>9.47</b>	<b>9.47</b>
<b>TOTAL CBD</b>	<b>-</b>	<b>-</b>	<b>-</b>		<b>-</b>	<b>-</b>	<b>-</b>
<b>TOTAL CBDV</b>	<b>-</b>	<b>-</b>	<b>-</b>		<b>-</b>	<b>-</b>	<b>-</b>
<b>TOTAL CBG</b>	<b>0.934</b>	<b>0.0841</b>	<b>9.34</b>		<b>-</b>	<b>9.34</b>	<b>9.34</b>
<b>TOTAL CBN</b>	<b>-</b>	<b>-</b>	<b>-</b>		<b>-</b>	<b>-</b>	<b>-</b>
<b>TOTAL THC</b>	<b>65.5</b>	<b>5.89</b>	<b>655</b>		<b>-</b>	<b>655</b>	<b>655</b>
<b>TOTAL THCVA</b>	<b>0.490</b>	<b>0.0147</b>	<b>4.90</b>		<b>-</b>	<b>4.90</b>	<b>4.90</b>



**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 = (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 THCVA = (THCVA x 0.867) + THCVA

Percentage results are reported by mass.

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

\* 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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*Kyle W. Felling*  
Kyle W. Felling, Ph.D.  
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**TERPENOID PROFILE**

**Analysis Date/Time:** 02/08/2023 0934

**Analyst:** KF

**Method:** GC/MS

**Instrument:** Agilent 7890/5975

**Deviations from SOP:**

None

<b>Terpene</b>	<b>Result (µg/g)</b>	<b>Result (%)</b>	
α-Bisabolol	1050	0.105	
Camphene	284	0.0284	
δ-3-Carene	-	-	
β-Caryophyllene	19200	1.92	■
Caryophyllene oxide	9070	0.907	■
p-Cymene	-	-	
Eucalyptol	-	-	
Geraniol	-	-	
Guaiol	1680	0.168	
α-Humulene	7700	0.770	■
Isopulegol	-	-	
d-Limonene	21700	2.17	■
Linalool	1660	0.166	
β-Myrcene	13600	1.36	■
cis-Nerolidol	-	-	
trans-Nerolidol	655	0.0655	
α-Ocimene	-	-	
β-Ocimene	3900	0.390	■
α-Pinene	2360	0.236	
β-Pinene	3170	0.317	■
α-Terpinene	-	-	
γ-Terpinene	-	-	
Terpinolene	215	0.0215	
<b>TOTAL</b>	<b>86200</b>	<b>8.62</b>	



**Abbreviations:** GC - Gas Chromatography, MS - Mass Spectrometry, RL - Reporting Limit

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"-" Not detected above RL.

**Reporting Limit (µg/g): 48.0**

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

<b>Analysis Date/Time:</b> 2/7/2023 2307	<b>Method:</b> HS/GC/MS	<b>Deviations from SOP:</b>
<b>Analyst:</b> KF	<b>Instrument:</b> 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)	-	37.1	74.3	5000	n-Heptane (142-82-5)	-	37.1	74.3	5000
Acetonitrile (75-5-8)	-	37.1	74.3	410	n-Hexane (110-54-3)	-	13.0	26.0	290
Benzene (71-43-2)	-	0.371	0.743	2	Isobutane (75-28-5)	-	37.1	74.3	5000
n-Butane (106-97-2)	-	37.1	74.3	5000	Isopropanol (67-63-0)	-	37.1	74.3	5000
1-Butanol (71-36-3)	-	37.1	74.3	5000	Isopropyl acetate (108-21-4)	-	37.1	74.3	5000
2-Butanol (78-92-2)	-	37.1	74.3	5000	Isopropyl benzene (98-82-8)	-	3.71	7.43	70
2-Butanone (78-93-3)	-	37.1	74.3	5000	Methanol (67-56-1)	-	37.1	74.3	3000
Cyclohexane (110-82-7)	-	37.1	74.3	3880	2-Methylbutane (78-78-4)	-	37.1	74.3	5000
1,2-Dimethoxyethane (110-71-4)	-	3.71	7.43	100	Methylene chloride (75-9-2)	-	37.1	74.3	600
N,N-Dimethylacetamide (127-19-5)	-	37.1	74.3	1090	2-Methylpentane (107-83-5)	-	13.0	26.0	290
2,2-Dimethylbutane (75-83-2)	-	13.0	26.0	290	3-Methylpentane (96-10-0)	-	13.0	26.0	290
2,3-Dimethylbutane (79-29-8)	-	13.0	26.0	290	n-Pentane (109-66-0)	-	37.1	74.3	5000
N,N-Dimethylformamide (68-12-2)	-	37.1	74.3	880	1-Pentanol (71-41-0)	-	37.1	74.3	5000
Dimethylsulfoxide (67-68-5)	-	37.1	74.3	5000	n-Propane (74-98-6)	-	37.1	74.3	5000
1,4-Dioxane (123-91-1)	-	37.1	74.3	380	1-Propanol (71-23-8)	-	37.1	74.3	5000
Ethanol (64-17-5)	-	37.1	74.3	5000	Pyridine (110-86-1)	-	13.0	26.0	200
2-Ethoxyethanol (110-80-5)	-	13.0	26.0	160	Tetrahydrofuran (109-99-9)	-	37.1	74.3	720
Ethyl ether (60-29-7)	-	37.1	74.3	5000	Tetramethylene sulfone (126-33-0)	-	13.0	26.0	160
Ethyl acetate (141-78-6)	-	37.1	74.3	5000	Toluene (108-88-3)	-	37.1	74.3	890
Ethyl benzene (100-41-4)	-	37.1	74.3	2170	o-Xylene (95-47-6)	-	37.1	74.3	2170
Ethylene glycol (107-21-1)	-	37.1	74.3	620	m,p-Xylene (108-38-3 or 106-42-3)	-	37.1	74.3	2170
Ethylene oxide (75-21-8)	-	3.71	7.43	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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**PESTICIDES PROFILE (SOP: SOP-PEST-001)**

**Analysis Date/Time:** 02/08/2023 0824

**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)	-	0.0480	0.384	0.5	Kresoxim-methyl (143390-89-0)	-	0.0480	0.384	0.4
Acephate (30560-19-1)	-	0.0480	0.384	0.4	Malathion (121-75-5)	-	0.0480	0.384	0.2
Acetaminophen (57960-19-7)	-	0.0480	0.384	2	Metalaxyl (57837-19-1)	-	0.0480	0.384	0.2
Acetamiprid (135410-20-7)	-	0.0480	0.384	0.2	Methiocarb (2032-65-7)	-	0.0480	0.384	0.2
Aldicarb (116-06-3)	-	0.0480	0.384	0.4	Methomyl (16752-77-5)	-	0.0480	0.384	0.4
Azoxystrobin (131860-33-8)	-	0.0480	0.384	0.2	Methyl parathion (298-0-0)	-	0.0480	0.384	0.2
Bifenazate (149877-41-8)	-	0.0480	0.384	0.2	MGK 264 (113-48-4)	-	0.0480	0.384	0.2
Bifenthrin (82657-04-3)	-	0.0480	0.384	0.2	Myclobutanil (88671-89-0)	-	0.0480	0.384	0.2
Boscalid (188425-85-6)	-	0.0480	0.384	0.4	Naled (300-76-5)	-	0.0480	0.384	0.5
Carbaryl (63-25-2)	-	0.0480	0.384	0.2	Oxamyl (23135-22-0)	-	0.0480	0.384	1
Carbofuran (1563-66-2)	-	0.0480	0.384	0.2	Paclobutrazol (76738-62-0)	-	0.0480	0.384	0.4
Chlorantraniliprole (800008-45-7)	-	0.0480	0.384	0.2	Permethrins (52645-53-1)	-	0.0480	0.384	0.2
Chlorfenapyr (122453-73-0)	-	0.0480	0.384	1	Phosmet (732-11-6)	-	0.0480	0.384	0.2
Chlorpyrifos (2921-88-2)	-	0.0480	0.384	0.2	Piperonyl butoxide (51-03-6)	-	0.0480	0.384	2
Clofentezine (74115-24-5)	-	0.0480	0.384	0.2	Prallethrin (2331-36-9)	-	0.0480	0.384	0.2
Cyfluthrin (68359-37-5)	-	0.0480	0.384	1	Propiconazole (60207-90-1))	-	0.0480	0.384	0.4
Cypermethrin (52315-07-8)	-	0.0480	0.384	1	Propoxur (114-26-1)	-	0.0480	0.384	0.2
Daminozide (1596-84-5)	-	0.0480	0.384	1	Pyrethrins (8003-34-7)	-	0.0480	0.384	1
DDVP (62-73-7)	-	0.0480	0.384	0.1	Pyridaben (96489-71-3)	-	0.0480	0.384	0.2
Diazinon (333-41-5)	-	0.0480	0.384	0.2	Spinosad (168316-95-8)	-	0.0480	0.384	0.2
Dimethoate (60-51-5)	-	0.0480	0.384	0.2	Spiromesifen (283594-90-1)	-	0.0480	0.384	0.2
Ethoprophos (13194-48-4)	-	0.0480	0.384	0.2	Spirotetramat (203313-25-1)	-	0.0480	0.384	0.2
Etofenprox (80844-07-1)	-	0.0480	0.384	0.4	Spiroxamine (118134-30-8)	-	0.0480	0.384	0.4
Etoxazole (153233-91-1)	-	0.0480	0.384	0.2	Tebuconazole (80443-41-0)	-	0.0480	0.384	0.4
Fenoxycarb (72490-01-8)	-	0.0480	0.384	0.2	Thiacloprid (111988-49-9)	-	0.0480	0.384	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0480	0.384	0.4	Thiamethoxam (153719-23-4)	-	0.0480	0.384	0.2
Fipronil (120068-37-3)	-	0.0480	0.384	0.4	Trifloxystrobin (141517-21-7)	-	0.0480	0.384	0.2
Flonicamid (158062-67-0)	-	0.0480	0.384	1					
Fludioxinil (131341-86-1)	-	0.0480	0.384	0.4					
Hexythiazox (78587-05-0)	-	0.0480	0.384	1					
Imazalil (35554-44-0)	-	0.0480	0.384	0.2					
Imidacloprid (138261-41-3)	-	0.0480	0.384	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.

**Disclaimer:** This information is  
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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.

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



**CERTIFICATE OF ANALYSIS (SAMPLE ID: SA34274)**

<b>Testing Location:</b>	<b>Customer ID:</b> 2168	<b>Order ID:</b> OR10292	<b>Sample Type:</b> Primary
Arkansas	River Valley Relief MIPS	<b>Lot Number:</b>	<b>Matrix:</b> Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13243094501	<b>Mass:</b> 4g
Greenbrier, AR 72058	Fort Smith, AR 72903	<b>Production Run:</b>	<b>Date Collected:</b> 02/06/2023
License: ADH 113	License: 00065C	E20230206CSLLB01	<b>Date Received:</b> 02/06/2023
<b>Cultivar (Strain) or Sample Description:</b> Creamsicle Hybrid Live Budder 1g Jar			<b>Date Completed:</b> 02/09/2023

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

<b>Analysis Date/Time:</b> 02/08/2023 0739 (ICP/OES)	<b>Method:</b> ICP/OES	<b>Deviations from SOP:</b>
<b>Analysis Date/Time:</b> - (DMA)	<b>Instrument:</b> Agilent 720-ES	None
<b>Analyst:</b> KF		

<b>Heavy Metal</b>	<b>Result (µg/kg)</b>	<b>LOD (µg/kg)</b>	<b>LOQ (µg/kg)</b>	<b>Action Level (µg/kg)</b>
Arsenic (As)	-	57.0	90.3	200
Cadmium (Cd)	-	57.0	90.3	200
Lead (Pb)	-	57.0	90.3	500
Mercury (Hg)	-	57.0	90.3	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**

<b>RESULT &lt; AL</b>
<b>RESULT &gt; AL</b>

"DET" detected less than LOQ

"-" not detected above LOD

Action levels for heavy metals are referenced from the State of Arkansas MMJ testing guidelines.

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Kyle W. Felling, Ph.D.  
Laboratory Director



**CERTIFICATE OF ANALYSIS (SAMPLE ID: SA34274)**

<b>Testing Location:</b>	<b>Customer ID:</b> 2168	<b>Sample ID:</b> SA34274	<b>Sample Type:</b> Primary
Arkansas	River Valley Relief MIPS	<b>Lot Number:</b>	<b>Matrix:</b> Concentrate
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13243094501	<b>Mass:</b> 4g
Greenbrier, AR 72058	Fort Smith, AR 72903	<b>Production Run:</b>	<b>Date Collected:</b> 02/06/2023
License: ADA 05_H273	License: 00065C	E20230206CSLLB01	<b>Date Received:</b> 02/06/2023
<b>Cultivar (Strain) or Sample Description:</b> Creamsicle Hybrid Live Budder 1g Jar			<b>Date Completed:</b> 02/09/2023

**MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)**

<b>Analysis Date/Time:</b> 20230208 1152	<b>Method:</b> Hardy Diagnostics CompactDry	<b>Deviations from SOP:</b>
<b>Analyst:</b> PW	<b>Instrument:</b> Thermo Incubator	None

<b>Bacteria/Microbe</b>	<b>Result (CFU/g)</b>	<b>Action Level (CFU/g)</b>
Aerobic Plate Count	Absent	-
Coliforms, Total	Absent	1
Escherichia Coli (E. Coli)	NT	100
Mold/Yeast	NT	-
Pseudomonas aeruginosa	NT	1
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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