

**SUMMARY OF ANALYSIS (SAMPLE ID: SA35195)**

<b>Testing Location:</b>	<b>Customer ID:</b> 2161	<b>Order ID:</b> OR10451	<b>Sample Type:</b> Primary
Arkansas	River Valley Relief Cultivation	<b>Lot Number:</b>	<b>Matrix:</b> Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13139404703	<b>Mass:</b> 23g
Greenbrier, AR 72058	Fort Smith, AR 72903	<b>Production Run:</b>	<b>Date Collected:</b> 05/15/2023
License: ADH 113	License: 00065C	4032H20230405SMC-2	<b>Date Received:</b> 05/15/2023
<b>Cultivar (Strain) or Sample Description:</b> SunMac			<b>Date Completed:</b> 05/18/2023

\*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 (%)**

12.2

**Water Activity (aw)**

0.499 @ 25.6°C

**PASS/FAIL**

**PASS**

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

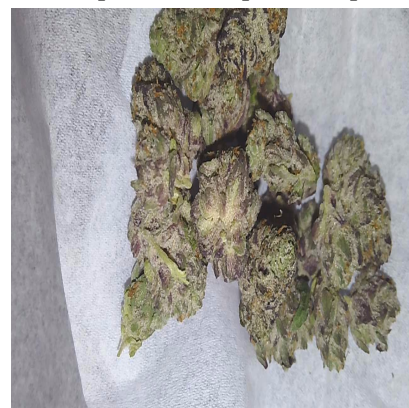
Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

<b>Cannabinoids (Top 3)</b>	<b>(%)</b>	<b>mg/g</b>
THCA	30.4	304
CBGA	1.32	13.2
Δ9-THC	0.187	1.87
TOTAL CBD	-	-
TOTAL THC	26.8	268
TOTAL CANNABINOIDS	32.0	320

<b>Terpenes (Top 5)</b>	<b>(%)</b>	<b>µg/g</b>
d-Limonene	0.318	3180
α-Ocimene	0.288	2880
Linalool	0.206	2060
β-Caryophyllene	0.161	1610
β-Ocimene	0.142	1420
TOTAL TERPENES	1.56	15600

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

**Sample Picture Upon Receipt**



Scan the QR code to verify results.

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**

This report shall not be reproduced, except in full, without the written consent of  
Felling Analytical Services and Technology (F.A.S.T.), LLC

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

[www.FASTLaboratories.com](http://www.FASTLaboratories.com)



**CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35195)**

<b>Testing Location:</b>	<b>Customer ID:</b> 2161	<b>Order ID:</b> OR10451	<b>Sample Type:</b> Primary
Arkansas	River Valley Relief Cultivation	<b>Lot Number:</b>	<b>Matrix:</b> Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13139404703	<b>Mass:</b> 23g
Greenbrier, AR 72058	Fort Smith, AR 72903	<b>Production Run:</b>	<b>Date Collected:</b> 05/15/2023
License: ADH 113	License: 00065C	4032H20230405SMC-2	<b>Date Received:</b> 05/15/2023
<b>Cultivar (Strain) or Sample Description:</b> SunMac			<b>Date Completed:</b> 05/18/2023

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

**Analysis Date/Time:** 05/16/2023 1758

**Method:** HPLC/DAD

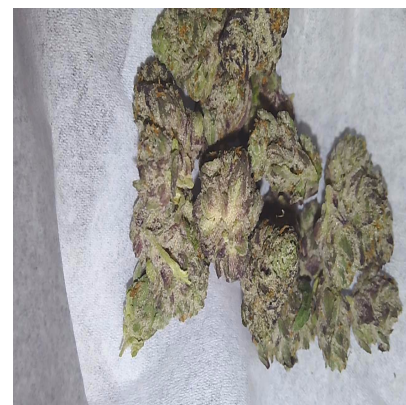
**Moisture Content (%):** 12.2

**Analyst:** PW

**Instrument:** Agilent 1100

**Water Activity (aw):** 0.499 @ 25.6°C

<u>Cannabinoid</u>	<u>Result</u> (%)	<u>Result</u> (mg/g)	<u>LOD</u> (mg/g)	<u>LOQ</u> (mg/g)	<u>Result</u> (mg/ mL)	<u>Per</u> <u>Serving</u> (mg)	<u>Per</u> <u>Unit</u> (mg)
CBC	ND	ND	0.202	0.471	-	-	-
CBCA	ND	ND	0.626	1.46	-	-	-
CBD	ND	ND	1.42	3.32	-	-	-
CBDA	ND	ND	0.105	0.245	-	-	-
CBDV	ND	ND	0.228	0.533	-	-	-
CBDVA	ND	ND	0.609	1.42	-	-	-
CBG	0.0984	0.984	0.354	0.708	-	0.984	0.984
CBGA	1.32	13.2	0.662	1.54	-	13.2	13.2
CBL	ND	ND	1.07	2.49	-	-	-
CBN	ND	ND	0.490	1.14	-	-	-
CBNA	ND	ND	0.529	1.23	-	-	-
Δ9-THC	0.187	1.87	0.587	1.37	-	1.87	1.87
Δ8-THC	ND	ND	0.917	2.14	-	-	-
THCA	30.4	304	0.318	0.745	-	304	304
THCV	ND	ND	0.764	1.78	-	-	-
THCVA	0.0680	0.680	0.244	0.568	-	0.680	0.680
<b>TOTAL</b>	<b>32.0</b>	<b>320</b>			-	<b>320</b>	<b>320</b>
<b>TOTAL CBC</b>	-	-			-	-	-
<b>TOTAL CBD</b>	-	-			-	-	-
<b>TOTAL CBDV</b>	-	-			-	-	-
<b>TOTAL CBG</b>	1.26	12.6			-	12.6	12.6
<b>TOTAL CBN</b>	-	-			-	-	-
<b>TOTAL THC</b>	26.8	268			-	268	268
<b>TOTAL THC V</b>	0.0590	0.590			-	0.590	0.590



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

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

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**

This report shall not be reproduced, except in full, without the written consent of Felling Analytical Services and Technology (F.A.S.T.), LLC

[www.FASTLaboratories.com](http://www.FASTLaboratories.com)

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



**CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35195)**

<b>Testing Location:</b>	<b>Customer ID:</b> 2161	<b>Order ID:</b> OR10451	<b>Sample Type:</b> Primary
Arkansas	River Valley Relief Cultivation	<b>Lot Number:</b>	<b>Matrix:</b> Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13139404703	<b>Mass:</b> 23g
Greenbrier, AR 72058	Fort Smith, AR 72903	<b>Production Run:</b>	<b>Date Collected:</b> 05/15/2023
License: ADH 113	License: 00065C	4032H20230405SMC-2	<b>Date Received:</b> 05/15/2023
<b>Cultivar (Strain) or Sample Description:</b> SunMac			<b>Date Completed:</b> 05/18/2023

**TERPENOID PROFILE**

**Analysis Date/Time:** 05/17/2023 2050

**Analyst:** KF

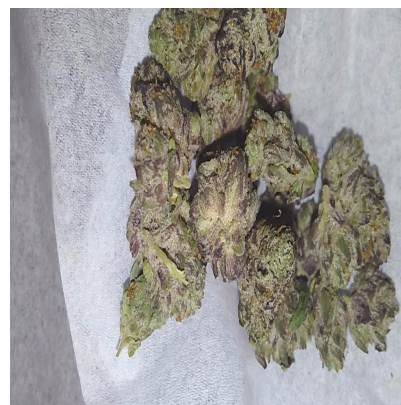
**Method:** GC/MS

**Instrument:** Agilent 7890/5975

**Deviations from SOP:**

None

<b>Terpene</b>	<b>Result (µg/g)</b>	<b>Result (%)</b>	
α-Bisabolol	-	-	
Camphene	108	0.0108	
δ-3-Carene	-	-	
β-Caryophyllene	1610	0.161	
Caryophyllene oxide	-	-	
p-Cymene	-	-	
Eucalyptol	-	-	
Geraniol	-	-	
Guaiol	-	-	
α-Humulene	498	0.0498	
Isopulegol	-	-	
d-Limonene	3180	0.318	
Linalool	2060	0.206	
β-Myrcene	200	0.0200	
cis-Nerolidol	1130	0.113	
trans-Nerolidol	954	0.0954	
α-Ocimene	2880	0.288	
β-Ocimene	1420	0.142	
α-Pinene	363	0.0363	
β-Pinene	565	0.0565	
α-Terpinene	578	0.0578	
γ-Terpinene	-	-	
Terpinolene	36.1	0.00361	
<b>TOTAL</b>	<b>15600</b>	<b>1.56</b>	



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

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.

"-" Not detected above RL.

**Reporting Limit (µg/g): 188**

**REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full, without the written consent of Felling Analytical Services and Technology (F.A.S.T.), LLC

[www.FASTLaboratories.com](http://www.FASTLaboratories.com)

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



**CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35195)**

<b>Testing Location:</b>	<b>Customer ID:</b> 2161	<b>Order ID:</b> OR10451	<b>Sample Type:</b> Primary
Arkansas	River Valley Relief Cultivation	<b>Lot Number:</b>	<b>Matrix:</b> Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13139404703	<b>Mass:</b> 23g
Greenbrier, AR 72058	Fort Smith, AR 72903	<b>Production Run:</b>	<b>Date Collected:</b> 05/15/2023
License: ADH 113	License: 00065C	4032H20230405SMC-2	<b>Date Received:</b> 05/15/2023
<b>Cultivar (Strain) or Sample Description:</b> SunMac			<b>Date Completed:</b> 05/18/2023

**PESTICIDES PROFILE (SOP: SOP-PEST-001)**

**Analysis Date/Time:** 05/17/2023 1624  
**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)	-	0.0441	0.353	0.5	Kresoxim-methyl (143390-89-0)	-	0.0441	0.353	0.4
Acephate (30560-19-1)	-	0.0441	0.353	0.4	Malathion (121-75-5)	-	0.0441	0.353	0.2
Acetaminophen (57960-19-7)	-	0.0441	0.353	2	Metalaxyl (57837-19-1)	-	0.0441	0.353	0.2
Acetamiprid (135410-20-7)	-	0.0441	0.353	0.2	Methiocarb (2032-65-7)	-	0.0441	0.353	0.2
Aldicarb (116-06-3)	-	0.0441	0.353	0.4	Methomyl (16752-77-5)	-	0.0441	0.353	0.4
Azoxystrobin (131860-33-8)	-	0.0441	0.353	0.2	Methyl parathion (298-0-0)	-	0.0441	0.353	0.2
Bifenazate (149877-41-8)	-	0.0441	0.353	0.2	MGK 264 (113-48-4)	-	0.0441	0.353	0.2
Bifenthrin (82657-04-3)	-	0.0441	0.353	0.2	Myclobutanil (88671-89-0)	-	0.0441	0.353	0.2
Boscalid (188425-85-6)	-	0.0441	0.353	0.4	Naled (300-76-5)	-	0.0441	0.353	0.5
Carbaryl (63-25-2)	-	0.0441	0.353	0.2	Oxamyl (23135-22-0)	-	0.0441	0.353	1
Carbofuran (1563-66-2)	-	0.0441	0.353	0.2	Paclobutrazol (76738-62-0)	-	0.0441	0.353	0.4
Chlorantraniliprole (800008-45-7)	-	0.0441	0.353	0.2	Permethrins (52645-53-1)	-	0.0441	0.353	0.2
Chlorfenapyr (122453-73-0)	-	0.0441	0.353	1	Phosmet (732-11-6)	-	0.0441	0.353	0.2
Chlorpyrifos (2921-88-2)	-	0.0441	0.353	0.2	Piperonyl butoxide (51-03-6)	-	0.0441	0.353	2
Clofentezine (74115-24-5)	-	0.0441	0.353	0.2	Prallethrin (2331-36-9)	-	0.0441	0.353	0.2
Cyfluthrin (68359-37-5)	-	0.0441	0.353	1	Propiconazole (60207-90-1))	-	0.0441	0.353	0.4
Cypermethrin (52315-07-8)	-	0.0441	0.353	1	Propoxur (114-26-1)	-	0.0441	0.353	0.2
Daminozide (1596-84-5)	-	0.0441	0.353	1	Pyrethrins (8003-34-7)	-	0.0441	0.353	1
DDVP (62-73-7)	-	0.0441	0.353	0.1	Pyridaben (96489-71-3)	-	0.0441	0.353	0.2
Diazinon (333-41-5)	-	0.0441	0.353	0.2	Spinosad (168316-95-8)	-	0.0441	0.353	0.2
Dimethoate (60-51-5)	-	0.0441	0.353	0.2	Spiromesifen (283594-90-1)	-	0.0441	0.353	0.2
Ethoprophos (13194-48-4)	-	0.0441	0.353	0.2	Spirotetramat (203313-25-1)	-	0.0441	0.353	0.2
Etofenprox (80844-07-1)	-	0.0441	0.353	0.4	Spiroxamine (118134-30-8)	-	0.0441	0.353	0.4
Etazoxole (153233-91-1)	-	0.0441	0.353	0.2	Tebuconazole (80443-41-0)	-	0.0441	0.353	0.4
Fenoxycarb (72490-01-8)	-	0.0441	0.353	0.2	Thiacloprid (111988-49-9)	-	0.0441	0.353	0.2
(E)-Fenpyroximate (134098-61-6)	-	0.0441	0.353	0.4	Thiamethoxam (153719-23-4)	-	0.0441	0.353	0.2
Fipronil (120068-37-3)	-	0.0441	0.353	0.4	Trifloxystrobin (141517-21-7)	-	0.0441	0.353	0.2
Flonicamid (158062-67-0)	-	0.0441	0.353	1					
Fludioxinil (131341-86-1)	-	0.0441	0.353	0.4					
Hexythiazox (78587-05-0)	-	0.0441	0.353	1					
Imazalil (35554-44-0)	-	0.0441	0.353	0.2					
Imidacloprid (138261-41-3)	-	0.0441	0.353	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  
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.

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**

This report shall not be reproduced, except in full, without the written consent of  
Felling Analytical Services and Technology (F.A.S.T.), LLC

[www.FASTLaboratories.com](http://www.FASTLaboratories.com)

Kyle W. Felling  
Laboratory Director





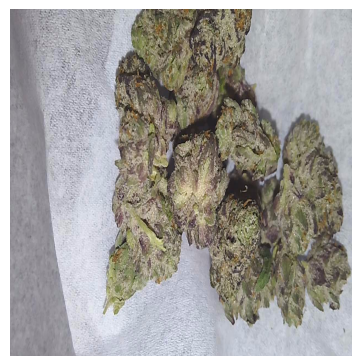
**CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35195)**

<b>Testing Location:</b>	<b>Customer ID:</b> 2161	<b>Order ID:</b> OR10451	<b>Sample Type:</b> Primary
Arkansas	River Valley Relief Cultivation	<b>Lot Number:</b>	<b>Matrix:</b> Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13139404703	<b>Mass:</b> 23g
Greenbrier, AR 72058	Fort Smith, AR 72903	<b>Production Run:</b>	<b>Date Collected:</b> 05/15/2023
License: ADH 113	License: 00065C	4032H20230405SMC-2	<b>Date Received:</b> 05/15/2023
<b>Cultivar (Strain) or Sample Description:</b> SunMac			<b>Date Completed:</b> 05/18/2023

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

<b>Analysis Date/Time:</b> 05/15/2023 1720 (ICP/OES)	<b>Method:</b> ICP/MS	<b>Deviations from SOP:</b>
<b>Analysis Date/Time:</b> - (DMA)	<b>Instrument:</b> Agilent 7500ce	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)	-	59.3	93.8	200
Cadmium (Cd)	-	59.3	93.8	200
Lead (Pb)	-	59.3	93.8	500
Mercury (Hg)	-	59.3	93.8	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.

**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**

This report shall not be reproduced, except in full, without the written consent of  
Felling Analytical Services and Technology (F.A.S.T.), LLC

[www.FASTLaboratories.com](http://www.FASTLaboratories.com)

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



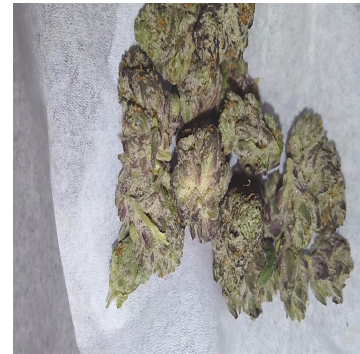
**CERTIFICATE OF ANALYSIS (SAMPLE ID: SA35195)**

<b>Testing Location:</b>	<b>Customer ID:</b> 2161	<b>Sample ID:</b> SA35195	<b>Sample Type:</b> Primary
Arkansas	River Valley Relief Cultivation	<b>Lot Number:</b>	<b>Matrix:</b> Flower
232 S. Broadview St.	5601 Old Greenwood Rd Suite C	M00065C13139404703	<b>Mass:</b> 23g
Greenbrier, AR 72058	Fort Smith, AR 72903	<b>Production Run:</b>	<b>Date Collected:</b> 05/15/2023
License: ADA 05_H273	License: 00065C	4032H20230405SMC-2	<b>Date Received:</b> 05/15/2023
<b>Cultivar (Strain) or Sample Description:</b> SunMac			<b>Date Completed:</b> 05/18/2023

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

**Analysis Date/Time:** 05/16/2023 1213  
**Analyst:** PW  
**Method:** Hardy Diagnostics CompactDry  
**Instrument:** Thermo Incubator  
**Deviations from SOP:** None

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

**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**

This report shall not be reproduced, except in full, without the written consent of  
Felling Analytical Services and Technology (F.A.S.T.), LLC

[www.FASTLaboratories.com](http://www.FASTLaboratories.com)

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

