

**SUMMARY OF ANALYSIS (SAMPLE ID: SA39704)**

<b>Testing Location:</b> Arkansas 232 S. Broadview St. Greenbrier, AR 72058 License: ADH 113	<b>Customer ID:</b> 2161 River Valley Relief Cultivation 5601 Old Greenwood Rd Suite C Fort Smith, AR 72903 License: 00065C	<b>Order ID:</b> OR11347 <b>Lot Number:</b> M00065C13138373085 <b>Production Run:</b> 5082H20241121APT-1	<b>Sample Type:</b> Primary <b>Matrix:</b> Flower <b>Mass:</b> 21g <b>Date Collected:</b> 12/19/2024 <b>Date Received:</b> 12/19/2024 <b>Date Completed:</b> 12/23/2024
<b>Cultivar (Strain) or Sample Description:</b> Apple Tartz			

\*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 (%)**

9.70

**Water Activity (aw)**

0.377 @ 24.2°C

**PASS/FAIL**

**PASS**

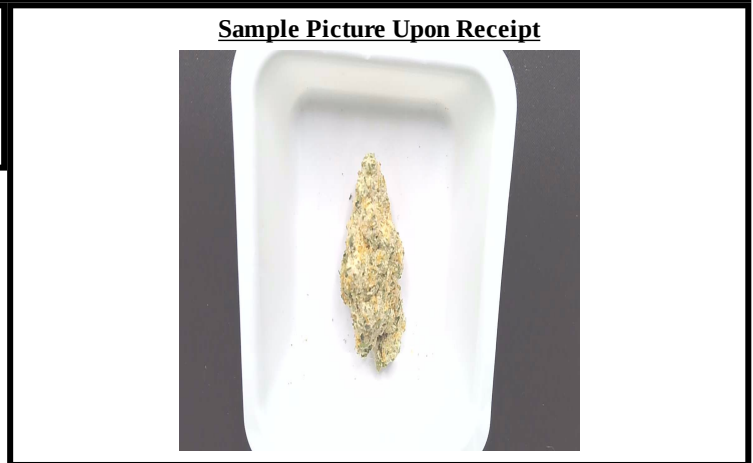
Moisture content/water activity action levels are referenced from the State of Arkansas MMJ testing guidelines.

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	33.4	334
CBGA	1.05	10.5
Δ9-THC	0.506	5.06
TOTAL CBD	0.000	0.000
TOTAL THC	29.8	298
TOTAL CANNABINOIDS	35.3	353

<b>Terpenes (Top 5)</b>	<b>(%)</b>	<b>µg/g</b>
β-Caryophyllene	1.15	11500
d-Limonene	0.570	5700
Linalool	0.391	3910
α-Humulene	0.354	3540
β-Myrcene	0.270	2700
TOTAL TERPENES	3.06	30600

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



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: SA39704)**

<b>Testing Location:</b> Arkansas 232 S. Broadview St. Greenbrier, AR 72058 License: ADH 113	<b>Customer ID:</b> 2161 River Valley Relief Cultivation 5601 Old Greenwood Rd Suite C Fort Smith, AR 72903 License: 00065C	<b>Order ID:</b> OR11347 <b>Lot Number:</b> M00065C13138373085 <b>Production Run:</b> 5082H20241121APT-1	<b>Sample Type:</b> Primary <b>Matrix:</b> Flower <b>Mass:</b> 21g <b>Date Collected:</b> 12/19/2024 <b>Date Received:</b> 12/19/2024
<b>Cultivar (Strain) or Sample Description:</b> Apple Tartz			<b>Date Completed:</b> 12/23/2024

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

**Analysis Date/Time:** 12/20/2024 1423      **Method:** HPLC/DAD      **Moisture Content (%):** 9.70  
**Analyst:** PW      **Instrument:** Agilent 1100      **Water Activity (aw):** 0.377 @ 24.2°C

<u>Cannabinoid</u>	<u>Result (%)</u>	<u>Result (mg/g)</u>	<u>LOD (mg/g)</u>	<u>LOQ (mg/g)</u>	<u>Result (mg/mL)</u>	<u>Per Serving (mg)</u>	<u>Per Unit (mg)</u>
CBC	ND	ND	0.0437	0.102	-	0.000	0.000
CBCA	ND	ND	0.136	0.316	-	0.000	0.000
CBD	ND	ND	0.308	0.719	-	0.000	0.000
CBDA	ND	ND	0.113	0.265	-	0.000	0.000
CBDV	ND	ND	0.0494	0.115	-	0.000	0.000
CBDVA	ND	ND	0.132	0.308	-	0.000	0.000
CBG	0.189	1.89	0.200	0.467	-	1.71	1.71
CBGA	1.05	10.5	0.283	0.334	-	9.46	9.46
CBL	ND	ND	0.231	0.539	-	0.000	0.000
CBN	ND	ND	0.106	0.248	-	0.000	0.000
CBNA	ND	ND	0.115	0.267	-	0.000	0.000
CBT	ND	ND	0.166	0.387	-	0.000	0.000
Δ9-THC	0.506	5.06	0.127	0.296	-	4.57	4.57
Δ8-THC	ND	ND	0.198	0.463	-	0.000	0.000
THCA	33.4	334	0.0689	0.161	-	302	302
THCV	ND	ND	0.165	0.386	-	0.000	0.000
THCVA	0.163	1.63	0.0529	0.123	-	1.47	1.47
<b>TOTAL</b>	<b>35.3</b>	<b>353</b>			-	<b>319</b>	<b>319</b>
<b>TOTAL CBC</b>	<b>0.000</b>	<b>0.000</b>			-	<b>0.000</b>	<b>0.000</b>
<b>TOTAL CBD</b>	<b>0.000</b>	<b>0.000</b>			-	<b>0.000</b>	<b>0.000</b>
<b>TOTAL CBDV</b>	<b>0.000</b>	<b>0.000</b>			-	<b>0.000</b>	<b>0.000</b>
<b>TOTAL CBG</b>	<b>1.11</b>	<b>11.1</b>			-	<b>10.0</b>	<b>10.0</b>
<b>TOTAL CBN</b>	<b>0.000</b>	<b>0.000</b>			-	<b>0.000</b>	<b>0.000</b>
<b>TOTAL THC</b>	<b>29.8</b>	<b>298</b>			-	<b>269</b>	<b>269</b>
<b>TOTAL THCV</b>	<b>0.141</b>	<b>1.41</b>			-	<b>1.27</b>	<b>1.27</b>



**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 = (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)

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



**CERTIFICATE OF ANALYSIS (SAMPLE ID: SA39704)**

<b>Testing Location:</b> Arkansas 232 S. Broadview St. Greenbrier, AR 72058 License: ADH 113	<b>Customer ID:</b> 2161 River Valley Relief Cultivation 5601 Old Greenwood Rd Suite C Fort Smith, AR 72903 License: 00065C	<b>Order ID:</b> OR11347 <b>Lot Number:</b> M00065C13138373085 <b>Production Run:</b> 5082H20241121APT-1	<b>Sample Type:</b> Primary <b>Matrix:</b> Flower <b>Mass:</b> 21g <b>Date Collected:</b> 12/19/2024 <b>Date Received:</b> 12/19/2024
<b>Cultivar (Strain) or Sample Description:</b> Apple Tartz			<b>Date Completed:</b> 12/23/2024

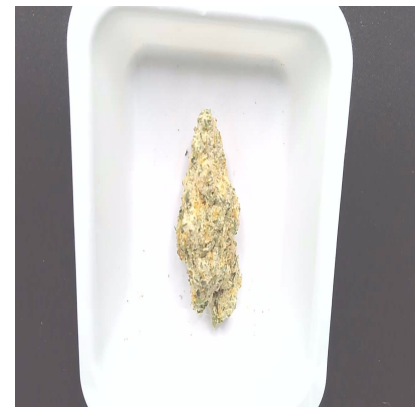
**TERPENOID PROFILE**

**Analysis Date/Time:** 12/20/2024 2019  
**Analyst:** KF

**Method:** GC/MS  
**Instrument:** Agilent 7890/5975

**Deviations from SOP:**  
None

<u>Terpene</u>	<u>Result (µg/g)</u>	<u>Result (%)</u>	
α-Bisabolol	566	0.0566	
Camphene	220	0.0220	
δ-3-Carene	ND	-	
β-Caryophyllene	11500	1.15	█
Caryophyllene oxide	101	0.0101	
p-Cymene	ND	-	
Eucalyptol	ND	-	
Geraniol	<LOQ	-	
Guaiol	ND	-	
α-Humulene	3540	0.354	█
Isopulegol	63.2	0.00632	
d-Limonene	5700	0.570	█
Linalool	3910	0.391	█
β-Myrcene	2700	0.270	█
cis-Nerolidol	ND	-	
trans-Nerolidol	ND	-	
α-Ocimene	82.3	0.00823	
β-Ocimene	<LOQ	-	
α-Pinene	713	0.0713	
β-Pinene	1300	0.130	█
α-Terpinene	ND	-	
γ-Terpinene	ND	-	
Terpinolene	117	0.0117	
<b>TOTAL</b>	<b>30600</b>	<b>3.06</b>	



*Abbreviations:* GC - Gas Chromatography, MS - Mass Spectrometry, RL - Reporting Limit  
*Abbreviations:* ND - Not Detected, LOD - Limit of Detection, LOQ - Limit of Quantitation

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.

**Reporting Limit (µg/g): 47.9**

"-" Not detected above LOD.

**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: SA39704)**

<b>Testing Location:</b> Arkansas 232 S. Broadview St. Greenbrier, AR 72058 License: ADH 113	<b>Customer ID:</b> 2161 River Valley Relief Cultivation 5601 Old Greenwood Rd Suite C Fort Smith, AR 72903 License: 00065C	<b>Order ID:</b> OR11347 <b>Lot Number:</b> M00065C13138373085 <b>Production Run:</b> 5082H20241121APT-1	<b>Sample Type:</b> Primary <b>Matrix:</b> Flower <b>Mass:</b> 21g <b>Date Collected:</b> 12/19/2024 <b>Date Received:</b> 12/19/2024
<b>Cultivar (Strain) or Sample Description:</b> Apple Tartz			<b>Date Completed:</b> 12/23/2024

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

**Analysis Date/Time:** 12/20/2024 1456  
**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)	-	0.0476	0.380	0.5	Kresoxim-methyl (143390-89-0)	-	0.0476	0.380	0.4
Acephate (30560-19-1)	-	0.0476	0.380	0.4	Malathion (121-75-5)	-	0.0476	0.380	0.2
Acetamiprid (135410-20-7)	-	0.0476	0.380	0.2	Metalaxyl (57837-19-1)	-	0.0476	0.380	0.2
Aldicarb (116-06-3)	-	0.0476	0.380	0.4	Methiocarb (2032-65-7)	-	0.0476	0.380	0.2
Azoxystrobin (131860-33-8)	-	0.0476	0.380	0.2	Methomyl (16752-77-5)	-	0.0476	0.380	0.4
Bifenazate (149877-41-8)	-	0.0476	0.380	0.2	Methyl parathion (298-0-0)	-	0.0476	0.380	0.2
Bifenthrin (82657-04-3)	-	0.0476	0.380	0.2	MGK 264 (113-48-4)	-	0.0476	0.380	0.2
Boscalid (188425-85-6)	-	0.0476	0.380	0.4	Myclobutanil (88671-89-0)	-	0.0476	0.380	0.2
Carbaryl (63-25-2)	-	0.0476	0.380	0.2	Naled (300-76-5)	-	0.0476	0.380	0.5
Carbofuran (1563-66-2)	-	0.0476	0.380	0.2	Oxamyl (23135-22-0)	-	0.0476	0.380	1
Chlorantraniliprole (800008-45-7)	-	0.0476	0.380	0.2	Pacllobutrazol (76738-62-0)	-	0.0476	0.380	0.4
Chlorfenapyr (122453-73-0)	-	0.0476	0.380	1	Permethrins (52645-53-1)	-	0.0476	0.380	0.2
Chlorpyrifos (2921-88-2)	-	0.0476	0.380	0.2	Phosmet (732-11-6)	-	0.0476	0.380	0.2
Clofentezine (74115-24-5)	-	0.0476	0.380	0.2	Piperonyl butoxide (51-03-6)	-	0.0476	0.380	2
Cyfluthrin (68359-37-5)	-	0.0476	0.380	1	Prallethrins (2331-36-9)	-	0.0476	0.380	0.2
Cypermethrin (52315-07-8)	-	0.0476	0.380	1	Propiconazole (60207-90-1))	-	0.0476	0.380	0.4
Daminozide (1596-84-5)	-	0.0476	0.380	1	Propoxur (114-26-1)	-	0.0476	0.380	0.2
DDVP (62-73-7)	-	0.0476	0.380	0.1	Pyrethrins (8003-34-7)	-	0.0476	0.380	1
Diazinon (333-41-5)	-	0.0476	0.380	0.2	Pyridaben (96489-71-3)	-	0.0476	0.380	0.2
Dimethoate (60-51-5)	-	0.0476	0.380	0.2	Spinosad (168316-95-8)	-	0.0476	0.380	0.2
Ethoprophos (13194-48-4)	-	0.0476	0.380	0.2	Spiromesifen (283594-90-1)	-	0.0476	0.380	0.2
Etofenprox (80844-07-1)	-	0.0476	0.380	0.4	Spirotetramat (203313-25-1)	-	0.0476	0.380	0.2
Etoxazole (153233-91-1)	-	0.0476	0.380	0.2	Spiroxamine (118134-30-8)	-	0.0476	0.380	0.4
Fenoxycarb (72490-01-8)	-	0.0476	0.380	0.2	Tebuconazole (80443-41-0)	-	0.0476	0.380	0.4
(E)-Fenpyroximate (134098-61-6)	-	0.0476	0.380	0.4	Thiacloprid (111988-49-9)	-	0.0476	0.380	0.2
Fipronil (120068-37-3)	-	0.0476	0.380	0.4	Thiamethoxam (153719-23-4)	-	0.0476	0.380	0.2
Fonicamid (158062-67-0)	-	0.0476	0.380	1	Trifloxystrobin (141517-21-7)	-	0.0476	0.380	0.2
Fludioxinil (131341-86-1)	-	0.0476	0.380	0.4					
Hexythiazox (78587-05-0)	-	0.0476	0.380	1					
Imazalil (35554-44-0)	-	0.0476	0.380	0.2					
Imidacloprid (138261-41-3)	-	0.0476	0.380	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

<b>Pesticide</b>	<b>Synonym(s)</b>	<b>Pesticide</b>	<b>Synonym(s)</b>	<b>Pesticide</b>	<b>Synonym(s)</b>
Cyfluthrin	Baythroid	Myclobutanil	Sythane	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

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



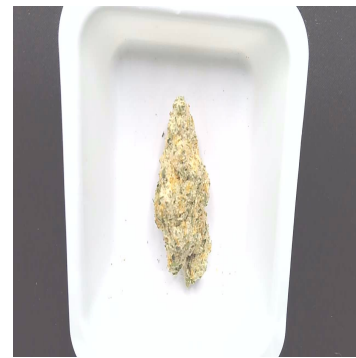
**CERTIFICATE OF ANALYSIS (SAMPLE ID: SA39704)**

<b>Testing Location:</b> Arkansas 232 S. Broadview St. Greenbrier, AR 72058 License: ADH 113	<b>Customer ID:</b> 2161 River Valley Relief Cultivation 5601 Old Greenwood Rd Suite C Fort Smith, AR 72903 License: 00065C	<b>Order ID:</b> OR11347 <b>Lot Number:</b> M00065C13138373085 <b>Production Run:</b> 5082H20241121APT-1	<b>Sample Type:</b> Primary <b>Matrix:</b> Flower <b>Mass:</b> 21g <b>Date Collected:</b> 12/19/2024 <b>Date Received:</b> 12/19/2024
<b>Cultivar (Strain) or Sample Description:</b> Apple Tartz			<b>Date Completed:</b> 12/23/2024

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

**Analysis Date/Time:** 12/20/2024 1803      **Method:** ICP/MS      **Deviations from SOP:** None  
**Analyst:** KF      **Instrument:** Agilent 7500ce

<u>Heavy Metal</u>	<u>Result (µg/kg)</u>	<u>LOD (µg/kg)</u>	<u>LOQ (µg/kg)</u>	<u>Action Level (µg/kg)</u>
Arsenic (As)	-	59.6	94.3	200
Cadmium (Cd)	-	59.6	94.3	200
Lead (Pb)	-	59.6	94.3	500
Mercury (Hg)	-	59.6	94.3	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**



"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

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



**CERTIFICATE OF ANALYSIS (SAMPLE ID: SA39704)**

<b>Testing Location:</b> Arkansas 232 S. Broadview St. Greenbrier, AR 72058 License: ADA 05_H273	<b>Customer ID:</b> 2161 River Valley Relief Cultivation 5601 Old Greenwood Rd Suite C Fort Smith, AR 72903 License: 00065C	<b>Sample ID:</b> SA39704 <b>Lot Number:</b> M00065C13138373085 <b>Production Run:</b> 5082H20241121APT-1	<b>Sample Type:</b> Primary <b>Matrix:</b> Flower <b>Mass:</b> 21g <b>Date Collected:</b> 12/19/2024 <b>Date Received:</b> 12/19/2024
<b>Cultivar (Strain) or Sample Description:</b> Apple Tartz			<b>Date Completed:</b> 12/23/2024

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

**Analysis Date/Time:** 12/20/2024 1334      **Method:** Hardy Diagnostics CompactDry      **Deviations from SOP:**  
**Analyst:** PW      **Instrument:** Thermo Incubator      None

<u>Bacteria/Microbe</u>	<u>Result (CFU/g)</u>	<u>Action Level (CFU/g)</u>
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** (Green background)

**RESULT > AL** (Red background)

**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.

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

**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)

