

## SUMMARY OF ANALYSIS (SAMPLE ID: SA27114)

|  |                          |                         |                                   |
|--|--------------------------|-------------------------|-----------------------------------|
| <b>Testing Location:</b>   | <b>Customer ID:</b> 1648 | <b>Order ID:</b> OR8452 | <b>Sample Type:</b> Primary       |
| OKC  | Red Dirt Sungrown        | <b>Lot Number:</b>      | <b>Matrix:</b> Flower             |
| 3680 E. I-240 Service Rd.  | P.O. Box 1399            | MC051404                | <b>Mass:</b> 5g                   |
| Oklahoma City, OK 73135  | Guthrie, OK 73044        | <b>Batch Number:</b>    | <b>Date Collected:</b> 05/15/2020 |
| License: LAAA-4Y4X-Z72Z  | License: GAAA-41RN-M7KD  | Not Entered             | <b>Date Received:</b> 05/15/2020  |
| <b>Cultivar (Strain) or Sample Description:</b> Mandarin Cookies |                          |                         | <b>Date Completed:</b> 05/19/2020 |

\*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.

\*For Oklahoma, with the new OMMA rules to be effective April 1, 2020, limits on moisture are proposed at 15% and water activity at 0.65aw.

|                             |                  |                            |                  |
|-----------------------------|------------------|----------------------------|------------------|
| <b>Moisture Content (%)</b> | <b>PASS/FAIL</b> | <b>Water Activity (aw)</b> | <b>PASS/FAIL</b> |
| 15.7                        | PASS             | 0.45 @ 24.4°C              | PASS             |

| <b>Cannabinoids (Top 3)</b> | <b>(%)</b> | <b>mg/g</b> |
|-----------------------------|------------|-------------|
| THCa                        | 26.6       | 266         |
| Δ9-THC                      | 0.408      | 4           |
| CBGa                        | 0.258      | 3           |
| TOTAL CBD                   | 0.0861     | 0.861       |
| TOTAL THC                   | 23.8       | 238         |
| TOTAL CANNABINOIDS          | 27.6       | 276         |

| <b>Terpenes (Top 5)</b> | <b>(%)</b> | <b>µg/g</b> |
|-------------------------|------------|-------------|
| β-Caryophyllene         | 0.530      | 5303        |
| α-Humulene              | 0.311      | 3105        |
| d-Limonene              | 0.227      | 2267        |
| Linalool                | 0.123      | 1234        |
| β-Pinene                | 0.065      | 651         |
| TOTAL TERPENES          | 1.38       | 13761       |

| <b>Contaminants</b> | <b>PASS/FAIL</b> |
|---------------------|------------------|
| Heavy Metals:       | PASS             |
| Microbiology:       | PASS             |
| Mycotoxins:         | PASS             |
| Pesticides:         | PASS             |
| Visual Inspection:  | PASS             |

### 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 of Oklahoma City, LLC

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

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



## CERTIFICATE OF ANALYSIS (SAMPLE ID: SA27114)

|  |                          |                         |                                   |
|--|--------------------------|-------------------------|-----------------------------------|
| <b>Testing Location:</b>   | <b>Customer ID:</b> 1648 | <b>Order ID:</b> OR8452 | <b>Sample Type:</b> Primary       |
| OKC  | Red Dirt Sungrown        | <b>Lot Number:</b>      | <b>Matrix:</b> Flower             |
| 3680 E. I-240 Service Rd.  | P.O. Box 1399            | MC051404                | <b>Mass:</b> 5g                   |
| Oklahoma City, OK 73135  | Guthrie, OK 73044        | <b>Batch Number:</b>    | <b>Date Collected:</b> 05/15/2020 |
| License: LAAA-4Y4X-Z72Z  | License: GAAA-41RN-M7KD  | Not Entered             | <b>Date Received:</b> 05/15/2020  |
| <b>Cultivar (Strain) or Sample Description:</b> Mandarin Cookies |                          |                         | <b>Date Completed:</b> 05/19/2020 |

## CANNABINOID (POTENCY) PROFILE

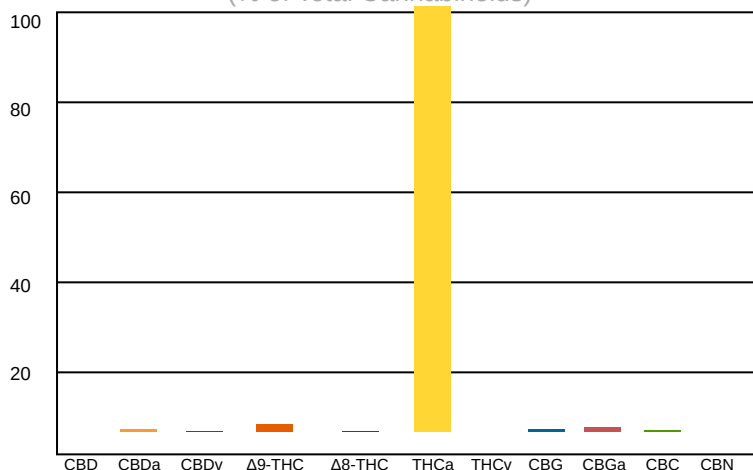
**Analysis Date/Time:** 05/15/2020 1543 **Method:** HPLC/DAD **Moisture Content (%):** 15.7  
**Analyst:** WW **Instrument:** Agilent 1100 **Water Activity (aw):** 0.4465 @ 24.44Å°C

| <b>Cannabinoid</b> | <b>Result (%)</b> | <b>Result (mg/g)</b> | <b>Reporting Limit (mg/g)</b> | <b>Result (mg/mL)</b> | <b>Per Unit (mg)</b> |
|--------------------|-------------------|----------------------|-------------------------------|-----------------------|----------------------|
| CBD                | -                 | -                    | 0.0506                        | -                     | -                    |
| CBDa               | 0.0982            | 0.982                | 0.0506                        | -                     | 0.982                |
| CBDv               | 0.0157            | 0.157                | 0.0506                        | -                     | 0.157                |
| Δ9-THC             | 0.408             | 4.08                 | 0.0506                        | -                     | 4                    |
| Δ8-THC             | 0.0178            | 0.178                | 0.0506                        | -                     | 0.178                |
| THCa               | 26.6              | 266                  | 0.0506                        | -                     | 266                  |
| THCv               | -                 | -                    | 0.0506                        | -                     | -                    |
| CBC                | 0.0441            | 0.441                | 0.0506                        | -                     | 0.441                |
| CBG                | 0.0904            | 0.904                | 0.0506                        | -                     | 0.904                |
| CBGa               | 0.258             | 2.58                 | 0.0506                        | -                     | 3                    |
| CBN                | -                 | -                    | 0.0506                        | -                     | -                    |
| <b>TOTAL</b>       | <b>27.6</b>       | <b>276</b>           |                               |                       | <b>276</b>           |
| <b>TOTAL THC</b>   | <b>23.8</b>       | <b>238</b>           |                               |                       | <b>238</b>           |
| <b>TOTAL CBD</b>   | <b>0.0861</b>     | <b>0.861</b>         |                               |                       | <b>0.861</b>         |



## Cannabinoid Distribution

(% of Total Cannabinoids)



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.

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 THC = (THCa x 0.877) + Δ9-THC  
 Total CBD = (CBDa x 0.877) + CBD

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

Abbreviations: UV - Ultraviolet, HPLC - High Pressure Liquid Chromatography, RL - Reporting Limit, RPD - Relative Percent Difference, RSD - Relative Standard Deviation

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Felling Analytical Services and Technology of Oklahoma City, LLC

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

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



## SUMMARY OF ANALYSIS (SAMPLE ID: SA27114)

|  |                          |                         |                                   |
|--|--------------------------|-------------------------|-----------------------------------|
| <b>Testing Location:</b>   | <b>Customer ID:</b> 1648 | <b>Order ID:</b> OR8452 | <b>Sample Type:</b> Primary       |
| OKC  | Red Dirt Sungrown        | <b>Lot Number:</b>      | <b>Matrix:</b> Flower             |
| 3680 E. I-240 Service Rd.  | P.O. Box 1399            | MC051404                | <b>Mass:</b> 5g                   |
| Oklahoma City, OK 73135  | Guthrie, OK 73044        | <b>Batch Number:</b>    | <b>Date Collected:</b> 05/15/2020 |
| License: LAAA-4Y4X-Z72Z  | License: GAAA-41RN-M7KD  | Not Entered             | <b>Date Received:</b> 05/15/2020  |
| <b>Cultivar (Strain) or Sample Description:</b> Mandarin Cookies |                          |                         | <b>Date Completed:</b> 05/19/2020 |

## TERPENOID PROFILE

**Analysis Date/Time:** 05/15/2020 1543

**Method:** HS/GC/FID (Internal Method-002)

**Deviations from SOP:**

**Analyst:** DJ

**Instrument:** Agilent 6890

None

| <u>Terpene</u>      | <u>Result</u><br>( <u>µg/g</u> ) | <u>Result</u><br>( <u>%</u> ) |   |
|---------------------|----------------------------------|-------------------------------|---|
| α-Bisabolol         | 424                              | 0.0424                        | ■ |
| Camphene            | 200                              | 0.02                          | ■ |
| δ-3-Carene          | -                                | -                             |   |
| β-Caryophyllene     | 5303                             | 0.53                          | ■ |
| Caryophyllene oxide | -                                | -                             |   |
| p-Cymene            | -                                | -                             |   |
| Eucalyptol          | -                                | -                             |   |
| Geraniol            | 134                              | 0.0134                        | ■ |
| Guaiol              | 59                               | 0.00595                       | ■ |
| α-Humulene          | 3105                             | 0.311                         | ■ |
| Isopulegol          | -                                | -                             |   |
| d-Limonene          | 2267                             | 0.227                         | ■ |
| Linalool            | 1234                             | 0.123                         | ■ |
| β-Myrcene           | -                                | -                             |   |
| cis-Nerolidol       | -                                | -                             |   |
| trans-Nerolidol     | -                                | -                             |   |
| α-Ocimene           | -                                | -                             |   |
| β-Ocimene           | -                                | -                             |   |
| α-Pinene            | 384                              | 0.0384                        | ■ |
| β-Pinene            | 651                              | 0.0651                        | ■ |
| α-Terpinene         | -                                | -                             |   |
| γ-Terpinene         | -                                | -                             |   |
| Terpinolene         | -                                | -                             |   |
| <b>TOTAL</b>        | <b>13761</b>                     | <b>1.38</b>                   |   |



*Abbreviations:* HS - Headspace, 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): 2.02**

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Felling Analytical Services and Technology of Oklahoma City, LLC

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

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



### SUMMARY OF ANALYSIS (SAMPLE ID: SA27114)

|  |                          |                         |                                   |
|--|--------------------------|-------------------------|-----------------------------------|
| <b>Testing Location:</b>   | <b>Customer ID:</b> 1648 | <b>Order ID:</b> OR8452 | <b>Sample Type:</b> Primary       |
| OKC  | Red Dirt Sungrown        | <b>Lot Number:</b>      | <b>Matrix:</b> Flower             |
| 3680 E. I-240 Service Rd.  | P.O. Box 1399            | MC051404                | <b>Mass:</b> 5g                   |
| Oklahoma City, OK 73135  | Guthrie, OK 73044        | <b>Batch Number:</b>    | <b>Date Collected:</b> 05/15/2020 |
| License: LAAA-4Y4X-Z72Z  | License: GAAA-41RN-M7KD  | Not Entered             | <b>Date Received:</b> 05/15/2020  |
| <b>Cultivar (Strain) or Sample Description:</b> Mandarin Cookies |                          |                         | <b>Date Completed:</b> 05/19/2020 |

### PESTICIDES PROFILE

**Analysis Date/Time:** 05/15/2020 1543

**Method:** LC/MS/MS

**Deviations from SOP:**

**Analyst:** DJ

**Instrument:** Waters Acquity/TQD

None

| <u>Pesticide</u>            | <u>Result</u><br>(µg/g) | <u>Action Level</u><br>(µg/g) |
|-----------------------------|-------------------------|-------------------------------|
| Abamectin (71751-41-2)      | -                       | 0.5                           |
| Azoxystrobin (131860-33-8)  | -                       | 0.5                           |
| Bifenazate* (149877-41-8)   | -                       | 0.5                           |
| Etoazazole (153233-91-1)    | -                       | 0.5                           |
| Imazalil (35554-44-0)       | -                       | 0.5                           |
| Imidacloprid (138261-41-3)  | -                       | 0.5                           |
| Malathion (121-75-5)        | -                       | 0.5                           |
| Myclobutanil (88671-89-0)   | -                       | 0.5                           |
| Permethrins* (52645-53-1)   | -                       | 0.5                           |
| Spinosad A (168316-95-8)    | -                       | 0.5                           |
| Spinosad D (168316-95-8)    | -                       | 0.5                           |
| Spiromesifen (283594-90-1)  | -                       | 0.5                           |
| Spirotetramat (203313-25-1) | -                       | 0.5                           |
| Tebuconazole (80443-41-0)   | -                       | 0.5                           |

#### Color Key

|                      |
|----------------------|
| RESULT < 1/2 AL      |
| 1/2 AL < RESULT < AL |
| RESULT > AL          |

**Reporting Limit (µg/g)**  
1/2 of AL

"-" not detected above reporting limit

"\*" analyzed by GC/MS  
(all others analyzed by LC/MS/MS)

Permethrins measured as the cumulative residue of the *cis*- and *trans*-permethrin isomers.



**Abbreviations:** LC - Liquid Chromatography, GC - Gas Chromatography, MS - Mass Spectrometry, RL - Reporting Limit, AL - Action Level, CAS - Chemical Abstract Services

| <u>Pesticide</u> | <u>Synonym(s)</u> | <u>Pesticide</u> | <u>Synonym(s)</u> | <u>Pesticide</u> | <u>Synonym(s)</u> |
|------------------|-------------------|------------------|-------------------|------------------|-------------------|
| Cyfluthrin       | Baythroid         | Myclobutanil     | Systhane          | Propiconazole    | Tilt              |
| DDVP             | Dichlorvos        | Naled            | Dibrom            | Propoxur         | Baygon            |
| Ethoprophos      | Prophos           | Phosmet          | Imidan            |                  |                   |

**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 of Oklahoma City, LLC

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

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



**SUMMARY OF ANALYSIS (SAMPLE ID: SA27114)**

|  |                          |                         |                                   |
|--|--------------------------|-------------------------|-----------------------------------|
| <b>Testing Location:</b>   | <b>Customer ID:</b> 1648 | <b>Order ID:</b> OR8452 | <b>Sample Type:</b> Primary       |
| OKC  | Red Dirt Sungrown        | <b>Lot Number:</b>      | <b>Matrix:</b> Flower             |
| 3680 E. I-240 Service Rd.  | P.O. Box 1399            | MC051404                | <b>Mass:</b> 5g                   |
| Oklahoma City, OK 73135  | Guthrie, OK 73044        | <b>Batch Number:</b>    | <b>Date Collected:</b> 05/15/2020 |
| License: LAAA-4Y4X-Z72Z  | License: GAAA-41RN-M7KD  | Not Entered             | <b>Date Received:</b> 05/15/2020  |
| <b>Cultivar (Strain) or Sample Description:</b> Mandarin Cookies |                          |                         | <b>Date Completed:</b> 05/19/2020 |

**MYCOTOXIN PROFILE****Analysis Date/Time:** 05/15/2020 1543**Method:** LC/MS/MS**Deviations from SOP:****Analyst:** DJ**Instrument:** Waters Acquity/TQD

None

| <b>Mycotoxin</b> | <b>Result<br/>(µg/kg)</b> | <b>Action Level<br/>(µg/kg)</b> |
|------------------|---------------------------|---------------------------------|
| Aflatoxin B1     | -                         | 20                              |
| Aflatoxin B2     | -                         | 20                              |
| Aflatoxin G1     | -                         | 20                              |
| Aflatoxin G2     | -                         | 20                              |
| Ochratoxin A     | -                         | 20                              |



**Abbreviations:** EC - Escherichia Coli, CFU - Colony-Forming Unit,  
RL - Reporting Limit, AL - Action Level

**Color Key**

|                                   |
|-----------------------------------|
| <b>RESULT &lt; 1/2 AL</b>         |
| <b>1/2 AL &lt; RESULT &lt; AL</b> |
| <b>RESULT &gt; AL</b>             |

**Reporting Limit (CFU/g)**  
1"- " not detected above  
reporting limit

**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 of Oklahoma City, LLC

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

**SUMMARY OF ANALYSIS (SAMPLE ID: SA27114)**

|  |                          |                         |                                   |
|--|--------------------------|-------------------------|-----------------------------------|
| <b>Testing Location:</b>   | <b>Customer ID:</b> 1648 | <b>Order ID:</b> OR8452 | <b>Sample Type:</b> Primary       |
| OKC  | Red Dirt Sungrown        | <b>Lot Number:</b>      | <b>Matrix:</b> Flower             |
| 3680 E. I-240 Service Rd.  | P.O. Box 1399            | MC051404                | <b>Mass:</b> 5g                   |
| Oklahoma City, OK 73135  | Guthrie, OK 73044        | <b>Batch Number:</b>    | <b>Date Collected:</b> 05/15/2020 |
| License: LAAA-4Y4X-Z72Z  | License: GAAA-41RN-M7KD  | Not Entered             | <b>Date Received:</b> 05/15/2020  |
| <b>Cultivar (Strain) or Sample Description:</b> Mandarin Cookies |                          |                         | <b>Date Completed:</b> 05/19/2020 |

**HEAVY METAL PROFILE****Analysis Date/Time:** 05/15/2020 1543**Method:** ICP/MS**Deviations from SOP:****Analyst:** CC**Instrument:** PerkinElmer Elan 9000

None

| <b>Heavy Metal</b> | <b>Result<br/>(µg/kg)</b> | <b>Action Level<br/>(µg/kg)</b> |
|--------------------|---------------------------|---------------------------------|
| Arsenic (As)       | -                         | 400                             |
| Cadmium (Cd)       | -                         | 440                             |
| Lead (Pb)          | -                         | 1000                            |
| Mercury (Hg)       | -                         | 200                             |



**Abbreviations:** ICP - Inductively-Coupled Plasma, OES - Optical Emission Spectroscopy,  
MS - Mass Spectroscopy, RL - Reporting Limit, AL - Action Level

**Color Key**

|                      |
|----------------------|
| RESULT < 1/2 AL      |
| 1/2 AL < RESULT < AL |
| RESULT > AL          |

**Reporting Limit (µg/kg)**  
50"- " not detected above  
reporting limit

**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 of Oklahoma City, LLC

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



## SUMMARY OF ANALYSIS (SAMPLE ID: SA27114)

|  |                          |                         |                                   |
|--|--------------------------|-------------------------|-----------------------------------|
| <b>Testing Location:</b>   | <b>Customer ID:</b> 1648 | <b>Order ID:</b> OR8452 | <b>Sample Type:</b> Primary       |
| OKC  | Red Dirt Sungrown        | <b>Lot Number:</b>      | <b>Matrix:</b> Flower             |
| 3680 E. I-240 Service Rd.  | P.O. Box 1399            | MC051404                | <b>Mass:</b> 5g                   |
| Oklahoma City, OK 73135  | Guthrie, OK 73044        | <b>Batch Number:</b>    | <b>Date Collected:</b> 05/15/2020 |
| License: LAAA-4Y4X-Z72Z  | License: GAAA-41RN-M7KD  | Not Entered             | <b>Date Received:</b> 05/15/2020  |
| <b>Cultivar (Strain) or Sample Description:</b> Mandarin Cookies |                          |                         | <b>Date Completed:</b> 05/19/2020 |

## MICROBIOLOGICAL PROFILE

|  |   |                             |
|--|---|-----------------------------|
| <b>Analysis Date/Time:</b> 05/15/2020 1543 | <b>Method:</b> Hardy Diagnostics CompactDry | <b>Deviations from SOP:</b> |
| <b>Analyst:</b> DJ                         | <b>Instrument:</b> Thermo Incubator         | None                        |

| <b>Bacteria/Microbe</b>    | <b>Result (CFU/g)</b> | <b>Action Level (CFU/g)</b> |
|----------------------------|-----------------------|-----------------------------|
| Escherichia Coli (E. Coli) | Absent                | 1                           |
| Mold/Yeast                 | Absent                | 10000                       |
| Salmonella spp.            | Absent                | 1                           |
| Staphylococcus Aureus      | Absent                | 1                           |



**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 < 1/2 AL      |
| 1/2 AL < RESULT < AL |
| RESULT > AL          |

**Reporting Limit (CFU/g)**  
1

"-" not detected above reporting limit

**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 of Oklahoma City, LLC

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

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

