

## CERTIFICATE OF ANALYSIS

**Order Type:** Cannabis  
**Order ID:** OR2019-6243

**Customer ID:** 1648  
**Customer Name:** Red Dirt Sungrown

**Harvest/Extract Lot:** None  
**Harvest/Extract Batch:** FR122605

**Cultivar (Strain):** Frostitute  
**Sample Date:** 12/27/2019

**Lab ID:** SA2019-19636  
**Date Received:** 12/27/2019

**Sample Matrix:** Flower  
**Date Completed:** 01/03/2020

### Remarks:

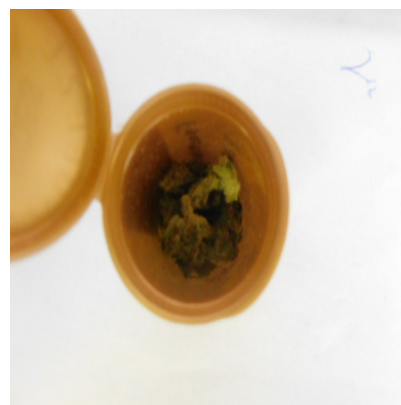
### CANNABINOID (POTENCY) PROFILE

**Analysis Date/Time:** 12/31/2019 1249  
**Analyst:** OL

**Method:** HPLC/DAD  
**Instrument:** Agilent 1100

**Moisture Content (%):** 12.8  
**Water Activity (aw):** 0.5173 @ 25.40°C

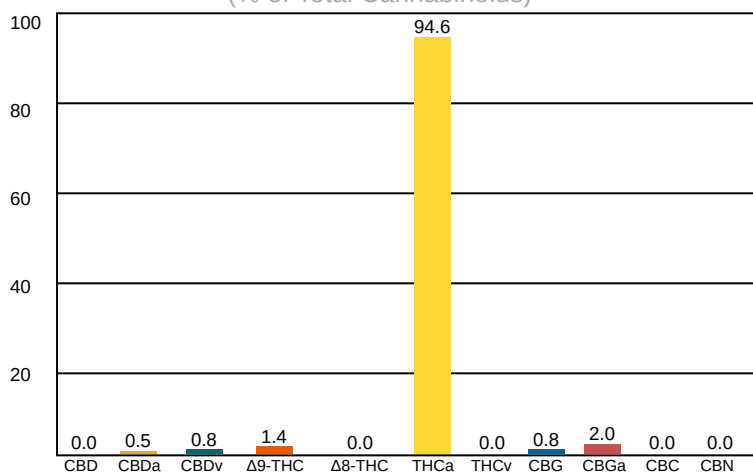
Cannabinoid	Result (%)	Result (mg/g)	Reporting Limit (mg/g)	Result (mg/mL)	Per Unit (mg)
CBD	-	-	0.0503	-	-
CBDa	0.137	1.37	0.0503	-	1.37
CBDv	0.218	2.18	0.0503	-	2
Δ9-THC	0.405	4.05	0.0503	-	4
Δ8-THC	-	-	0.0503	-	-
THCa	27.1	271	0.0503	-	271
THCv	-	-	0.0503	-	-
CBC	-	-	0.0503	-	-
CBG	0.225	2.25	0.0503	-	2
CBGa	0.576	5.75	0.0503	-	6
CBN	-	-	0.0503	-	-
<b>TOTAL</b>	<b>28.7</b>	<b>287</b>		<b>-</b>	<b>287</b>
<b>TOTAL THC</b>	<b>24.2</b>	<b>242</b>		<b>-</b>	<b>242</b>
<b>TOTAL CBD</b>	<b>0.12</b>	<b>1.2</b>		<b>-</b>	<b>1.2</b>



**UNIT MASS (g):** 1

"-" Not detected above RL.

### Cannabinoid Distribution (% of Total Cannabinoids)



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

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

**Order Type:** Cannabis  
**Order ID:** OR2019-6243

**Customer ID:** 1648  
**Customer Name:** Red Dirt Sungrown

**Harvest/Extract Lot:** None  
**Harvest/Extract Batch:** FR122605

**Cultivar (Strain):** Frostitute  
**Sample Date:** 12/27/2019

**Lab ID:** SA2019-19636  
**Date Received:** 12/27/2019

**Sample Matrix:** Flower  
**Date Completed:** 01/03/2020

### Remarks:

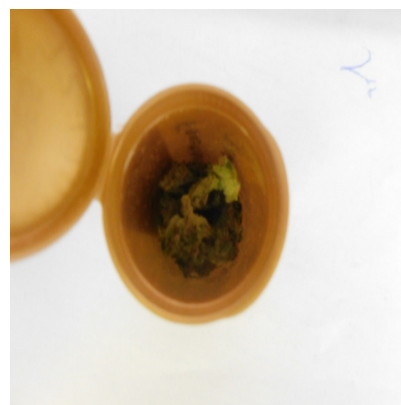
### TERPENOID PROFILE

**Analysis Date/Time:** 12/31/2019 1249  
**Analyst:** OL

**Method:** HS/GC/FID (Internal Method-002)  
**Instrument:** Agilent 6890

**Deviations from SOP:**  
None

<u>Terpene</u>	<u>Result</u> (µg/g)	<u>Result</u> (%)	
α-Bisabolol	-	-	
Camphene	302	0.0302	
δ-3-Carene	-	-	
β-Caryophyllene	4967	0.497	
Caryophyllene oxide	-	-	
p-Cymene	-	-	
Eucalyptol	-	-	
Geraniol	-	-	
Guaiol	-	-	
α-Humulene	1756	0.176	
Isopulegol	-	-	
d-Limonene	7922	0.792	
Linalool	2792	0.279	
β-Myrcene	3813	0.381	
cis-Nerolidol	-	-	
trans-Nerolidol	-	-	
α-Ocimene	-	-	
β-Ocimene	-	-	
α-Pinene	761	0.0761	
β-Pinene	1282	0.128	
α-Terpinene	-	-	
γ-Terpinene	-	-	
Terpinolene	562	0.0562	
<b>TOTAL</b>	<b>24157</b>	<b>2.42</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): 2.01**

### 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

**Order Type:** Cannabis  
**Order ID:** OR2019-6243

**Customer ID:** 1648  
**Customer Name:** Red Dirt Sungrown

**Harvest/Extract Lot:** None  
**Harvest/Extract Batch:** FR122605

**Cultivar (Strain):** Frostitute  
**Sample Date:** 12/27/2019

**Lab ID:** SA2019-19636  
**Date Received:** 12/27/2019

**Sample Matrix:** Flower  
**Date Completed:** 01/03/2020

**Remarks:**

### PESTICIDES PROFILE

**Analysis Date/Time:** 12/31/2019 1249  
**Analyst:** OL

**Method:** LC/MS/MS  
**Instrument:** Waters Acquity/TQD

**Deviations from SOP:**  
None

<u>Pesticide</u>	<u>Result</u> (µg/g)	<u>Action Level</u> (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

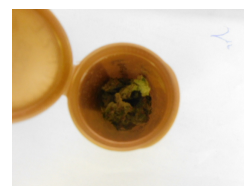
<u>Color Key</u>
RESULT < 1/2 AL
1/2 AL < RESULT < AL
RESULT > AL

**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

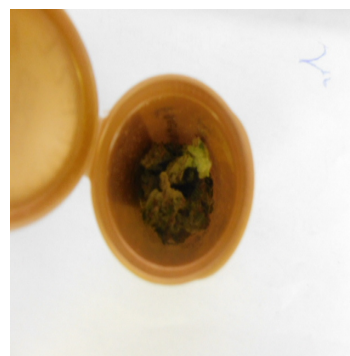
This report shall not be reproduced, except in full, without the written consent of  
Felling Analytical Services and Technology (F.A.S.T.), LLC

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

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

**CERTIFICATE OF ANALYSIS****Order Type:** Cannabis  
**Order ID:** OR2019-6243**Customer ID:** 1648  
**Customer Name:** Red Dirt Sungrown**Harvest/Extract Lot:** None  
**Harvest/Extract Batch:** FR122605**Cultivar (Strain):** Frostitute  
**Sample Date:** 12/27/2019**Lab ID:** SA2019-19636  
**Date Received:** 12/27/2019**Sample Matrix:** Flower  
**Date Completed:** 01/03/2020**Remarks:****MYCOTOXIN PROFILE****Analysis Date/Time:** 12/31/2019 1249  
**Analyst:** OL**Method:** LC/MS/MS  
**Instrument:** Waters Acquity/TQD**Deviations from SOP:**  
None

<u>Mycotoxin</u>	<u>Result</u> <u>(µg/kg)</u>	<u>Action Level</u> <u>(µg/kg)</u>
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**

RESULT < 1/2 AL
1/2 AL < RESULT < AL
RESULT > AL

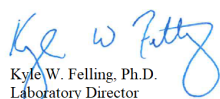
**Reporting Limit (CFU/g)**  
1"- " not detected above  
reporting limit

**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**

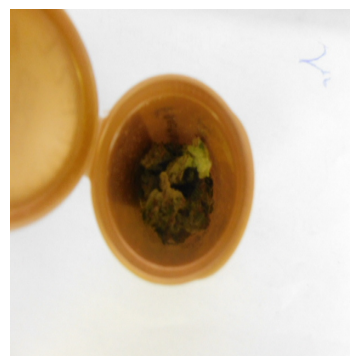
This report shall not be reproduced, except in full, without the written consent of  
Felling Analytical Services and Technology (F.A.S.T.), LLC

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

  
Kyle W. Felling, Ph.D.  
Laboratory Director

**CERTIFICATE OF ANALYSIS****Order Type:** Cannabis  
**Order ID:** OR2019-6243**Customer ID:** 1648  
**Customer Name:** Red Dirt Sungrown**Harvest/Extract Lot:** None  
**Harvest/Extract Batch:** FR122605**Cultivar (Strain):** Frostitute  
**Sample Date:** 12/27/2019**Lab ID:** SA2019-19636  
**Date Received:** 12/27/2019**Sample Matrix:** Flower  
**Date Completed:** 01/03/2020**Remarks:****HEAVY METAL PROFILE****Analysis Date/Time:** 12/31/2019 1249  
**Analyst:** OL**Method:** ICP/MS  
**Instrument:** PerkinElmer Elan 9000**Deviations from SOP:**  
None

<u>Heavy Metal</u>	<u>Result</u> <u>(µg/kg)</u>	<u>Action Level</u> <u>(µg/kg)</u>
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 (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

**Order Type:** Cannabis  
**Order ID:** OR2019-6243

**Customer ID:** 1648  
**Customer Name:** Red Dirt Sungrown

**Harvest/Extract Lot:** None  
**Harvest/Extract Batch:** FR122605

**Cultivar (Strain):** Frostitute  
**Sample Date:** 12/27/2019

**Lab ID:** SA2019-19636  
**Date Received:** 12/27/2019

**Sample Matrix:** Flower  
**Date Completed:** 01/03/2020

**Remarks:**

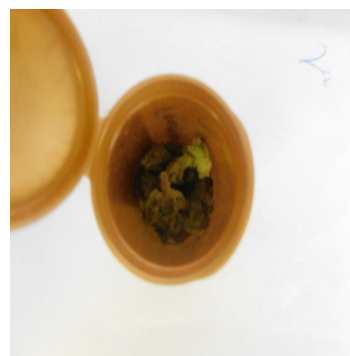
## MICROBIOLOGICAL PROFILE

**Analysis Date/Time:** 12/31/2019 1249  
**Analyst:** JD

**Method:** Hardy Diagnostics CompactDry  
**Instrument:** Thermo Incubator

**Deviations from SOP:**  
None

<u>Bacteria/Microbe</u>	<u>Result</u> <u>(CFU/g)</u>	<u>Action Level</u> <u>(CFU/g)</u>
Aerobic Plate Count, Total	TNTC	-
Escherichia Coli (E. Coli)	Absent	1
Mold	Absent	10000
Yeast	Absent	10000
Salmonella spp.	Absent	1



*Abbreviations:* EC - Escherichia Coli, CFU - Colony-Forming Unit,  
RL - Reporting Limit, AL - Action Level, NT - Not Tested

### 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 (F.A.S.T.), LLC

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

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