



# Certificate of Analysis

## Heartland Green Solutions LLC

1738 E 7th St  
Tulsa, OK 74104  
baron.benz@heartlandgreensolutions.com  
(918) 764-9485  
Lic. #GAAA-NKBE-2BCO

Sample: 2109HTL2263.9766

Strain: Pineapple Upside Down Cake  
Batch#: 4844; Batch Size: g; Lot ID:  
Sample Received: 09/23/2021; Report Created: 09/29/2021  
Sampled by: ; Client Rep:  
Sample Storage Environment:

## Pineapple Upside Down Cake


Plant, Flower - Cured, Other  
Harvest Process Lot: ; METRC Batch: ; METRC Sample:





## Terpenes: HT-SOP-17


## Primary Aromas


Analyte	LOD PPM	LOQ PPM	Results PPM	Results %	Status
β-Caryophyllene	25.00	50.00	12131.61	1.21	Tested
β-Myrcene	25.00	50.00	9205.34	0.92	Tested
α-Humulene	25.00	50.00	3544.84	0.35	Tested
α-Bisabolol	25.00	50.00	2767.65	0.28	Tested
Limonene	25.00	50.00	1486.02	0.15	Tested
Linalool	25.00	50.00	1092.94	0.11	Tested
Nerolidol	250.00	500.00	542.02	0.05	Tested
Caryophyllene Oxide	25.00	50.00	354.63	0.04	Tested
β-Pinene	25.00	50.00	206.03	0.02	Tested
α-Pinene	25.00	50.00	128.55	0.01	Tested
Isopulegol	25.00	50.00	57.73	0.01	Tested
α-Terpinene	25.00	50.00	ND	ND	Tested
Camphene	25.00	50.00	<LOQ	<LOQ	Tested
cis-Nerolidol	250.00	500.00	<LOQ	<LOQ	Tested
cis-OCimene	25.00	50.00	<LOQ	<LOQ	Tested
δ-3-Carene	25.00	50.00	ND	ND	Tested
Eucalyptol	25.00	50.00	ND	ND	Tested
γ-Terpinene	25.00	50.00	ND	ND	Tested
Geraniol	250.00	500.00	ND	ND	Tested
Guaiol	25.00	50.00	ND	ND	Tested
Phytol	250.00	500.00	ND	ND	Tested
p-Cymene	25.00	50.00	ND	ND	Tested
Terpinolene	25.00	50.00	<LOQ	<LOQ	Tested
trans-Nerolidol	250.00	500.00	ND	ND	Tested
trans-OCimene	25.00	50.00	ND	ND	Tested
<b>Total</b>			<b>31517.36</b>	<b>3.15</b>	

  
 Cinnamon

  
 Hops

  
 Chamomile

  
 Orange

  
 Lavender

**31,517.36 PPM**  
Total Terpenes

Date Tested: 09/24/2021

105 E. Ray Fine Blvd  
Roland, OK  
(918) 571-8757  
<http://www.hightesting.com>  
Lic# LAAA-VK6A-DPMO

**Amanda Rigdon**  
Chief Scientific Officer

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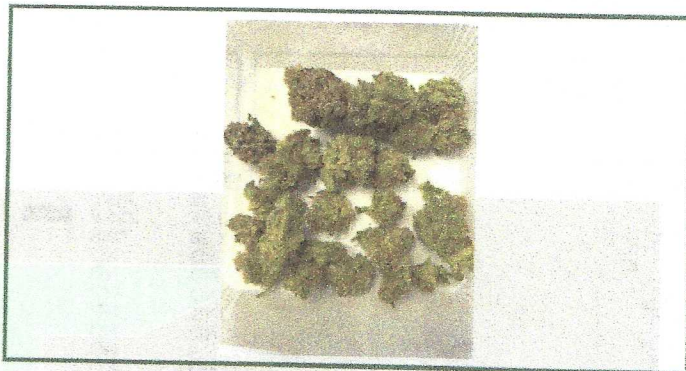
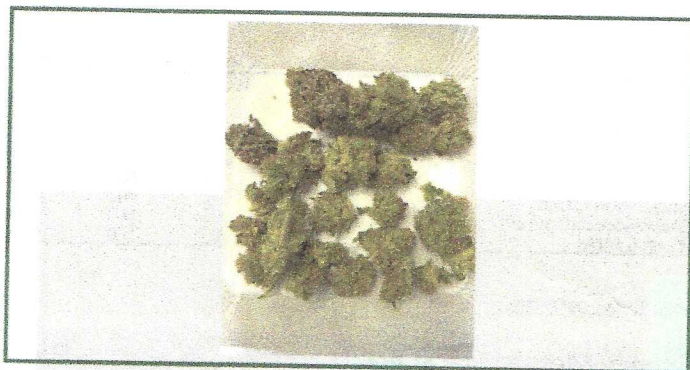
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### Summary

<b>Complete</b> <i>Total THC: 21.77%</i> Cannabinoids	<b>Complete</b> <i>31,517.36 PPM</i> Terpenes	<b>Pass</b> Pesticides	<b>Not Tested</b> Solvents	<b>Pass</b> Microbials
<b>Pass</b> Moisture	<b>Pass</b> Water Activity	<b>Pass</b> Heavy Metals	<b>Pass</b> Foreign Matter	<b>Not Tested</b> Mycotoxins

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Ian Miller  
Laboratory Director

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### Pesticides: HT-SOP-18

Pass

Analyte	LOD	LOQ	Results	Status	Analyte	LOD	LOQ	Results	Status
	PPM	PPM	PPM			PPM	PPM	PPM	
Abamectin	0.094	0.100	ND	Pass	Myclobutanil	0.100	0.100	ND	Pass
Avermectin-B1a	0.094	0.094	ND	Tested	Permethrins	0.027	0.100	ND	Pass
Avermectin-B1b	0.100	0.100	ND	Tested	Spinosad	0.025	0.100	ND	Pass
Azoxystrobin	0.100	0.100	ND	Pass	Spinosyn A	0.072	0.072	ND	Tested
Bifenazate	0.100	0.100	ND	Pass	Spinosyn D	0.025	0.025	ND	Tested
cis-Permethrin	0.027	0.027	ND	Tested	Spiromesifen	0.100	0.100	ND	Pass
Etoxazole	0.100	0.100	ND	Pass	Spirotetramat	0.100	0.100	ND	Pass
Imazalil	0.100	0.100	ND	Pass	Tebuconazole	0.100	0.100	ND	Pass
Imidacloprid	0.100	0.100	ND	Pass	Trans Permethrin	0.073	0.073	ND	Tested
Malathion	0.100	0.100	ND	Pass					

Date Tested: 09/25/2021

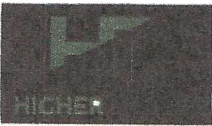
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### Cannabinoids: HT-SOP-14

Complete

### Microbials: HT-SOP-22

Pass

<b>21.77%</b>	<b>ND</b>	<b>24.68%</b>
Total THC	Total CBD	Total Cannabinoids

Analyte	LOD	LOQ	Results	Results
	PPM	PPM	%	mg/g
THCa	10000.00	5000.00	23.59	235.9
Δ9-THC	10000.00	5000.00	1.08	10.8
Δ8-THC	10000.00	1250.00	ND	ND
THCV	10000.00	1250.00	ND	ND
CBDa	10000.00	5000.00	ND	ND
CBD	10000.00	5000.00	ND	ND
CBDV	10000.00	1250.00	ND	ND
CBN	10000.00	5000.00	ND	ND
CBGa	10000.00	1250.00	ND	ND
CBG	10000.00	1250.00	ND	ND
CBC	10000.00	1250.00	ND	ND
<b>Total</b>			<b>24.68</b>	<b>246.8</b>

Analyte	LOQ	Limit	Results	Status
	CFU/g	CFU/g	CFU/g	
Aspergillus flavus		0	ND	Pass
Aspergillus fumigatus		0	ND	Pass
Aspergillus niger		0	ND	Pass
Aspergillus terreus		0	ND	Pass
Salmonella		0	ND	Pass
Shiga Toxin E. Coli		0	ND	Pass
Staphylococcus aureus		0	ND	Pass
Yeast & Mold		10000	370	Pass

Date Tested: 09/27/2021

### Heavy Metals: HT-SOP-20

Pass

Analyte	LOD	LOQ	Limit	Results	Status
	PPB	PPB	PPB	PPB	
Arsenic	0	58	200	ND	Pass
Cadmium	0	58	200	ND	Pass
Lead	1	192	500	ND	Pass
Mercury	1	29	100	ND	Pass

Date Tested: 09/27/2021

Date Tested: 09/24/2021

Notes:  
Total THC = THCa \* 0.877 + Δ9-THC; Total CBD = CBDa \* 0.877 + CBD; Results are being calculated on a dry-weight basis.

### Foreign Matter: HT-SOP-21

Pass

Status: Not Detected

Notes:

Moisture (HT-SOP-30)
<b>11.5%</b>

Water Activity (HT-SOP-31)
<b>0.44 aw</b>

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**\$2,000.00**

**Total:**

Product	Barcode	Sample	Quantity	Price	Total
1) TH-PLATINUM GORILLA 22.53% THC 1.43% TERPS 113GM	01312278400011050		4	\$500.00	\$2,000.00

**Shipped From**

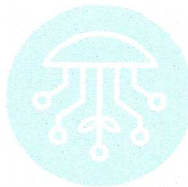
**BAG LLC**

418 N MAIN ST

BROKEN

ARROW, OK 74436

License #: GAAA-VJME-18BS



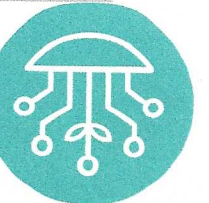
**Manifest Details**

Manifest #: 06412278400001138

Transfer Date: 10/18/21

Return: No

3470 N 335 Rd  
Haskell, OK 74436  
Phone: 9184048981



**Okie Express Transport**

Processed Date: 10/18/21  
Processed By:

**INTAKE INVOICE**