

SUMMARY OF ANALYSIS (SAMPLE ID: SA25720)

Testing Location: OKC 3680 E. I-240 Service Rd. Oklahoma City, OK 73135 License: LAAA-4Y4X-Z72Z	Customer ID: 1648 Red Dirt Sungrown P.O. Box 1399 Guthrie, OK 73044 License: GAAA-41RN-M7KD	Order ID: OR8017 Lot Number: ZI041015 Batch Number: Not Entered	Sample Type: Primary Matrix: Flower Mass: 5g Date Collected: 04/14/2020 Date Received: 04/14/2020
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Cultivar (Strain) or Sample Description: Zsweet Inzanity **Date Completed:** 04/17/2020

*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.

Moisture Content (%) 13.9	PASS/FAIL PASS	Water Activity (aw) 0.33 @ 20.2°C	PASS/FAIL PASS
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<u>Cannabinoids (Top 3)</u>	<u>(%)</u>	<u>mg/g</u>
THCa	17.7	177
Δ9-THC	1.64	16
CBGa	0.572	6
TOTAL CBD	0.0523	0.523
TOTAL THC	17.1	171
TOTAL CANNABINOIDS	20.1	201

<u>Terpenes (Top 5)</u>	<u>(%)</u>	<u>µg/g</u>
Terpinolene	0.224	2240
β-Caryophyllene	0.135	1350
β-Ocimene	0.115	1147
α-Humulene	0.087	871
β-Myrcene	0.084	840
TOTAL TERPENES	0.817	8171

<u>Contaminants</u>	<u>PASS/FAIL</u>
Heavy Metals:	PASS
Microbiology:	PASS
Mycotoxins:	PASS
Pesticides:	PASS
Visual Inspection:	PASS



Scan the QR code to verify results.

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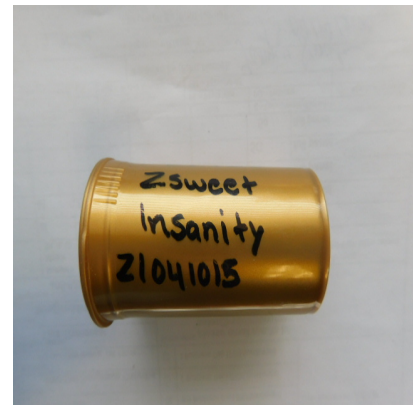
CERTIFICATE OF ANALYSIS (SAMPLE ID: SA25720)

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CANNABINOID (POTENCY) PROFILE

Analysis Date/Time: 04/15/2020 0927 **Method:** HPLC/DAD **Moisture Content (%):** 13.93
Analyst: WW **Instrument:** Agilent 1100 **Water Activity (aw):** 0.3321 @ 20.25Å°C

Cannabinoid	Result (%)	Result (mg/g)	Reporting Limit (mg/g)	Result (mg/mL)	Per Unit (mg)
CBD	-	-	0.0513	-	-
CBDa	0.0596	0.596	0.0513	-	0.596
CBDv	0.00831	0.0831	0.0513	-	0.0831
Δ9-THC	1.64	16.4	0.0513	-	16
Δ8-THC	0.0249	0.249	0.0513	-	0.249
THCa	17.7	177	0.0513	-	177
THCv	0.00817	0.0817	0.0513	-	0.0817
CBC	0.0216	0.216	0.0513	-	0.216
CBG	0.0619	0.619	0.0513	-	0.619
CBGa	0.572	5.72	0.0513	-	6
CBN	0.0109	0.109	0.0513	-	0.109
TOTAL	20.1	201			201
TOTAL THC	17.1	171			171
TOTAL CBD	0.0523	0.523			0.523

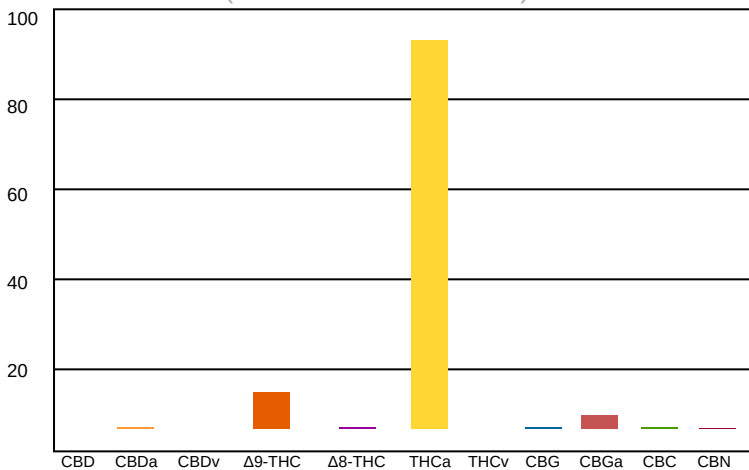


UNIT MASS (g): 1

"-" 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

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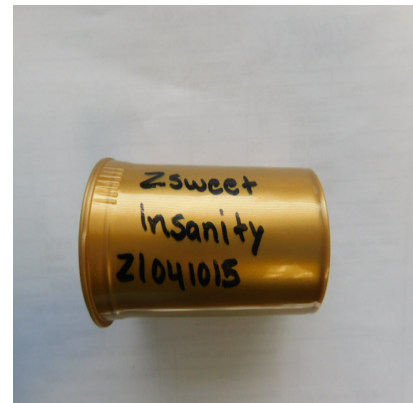
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TERPENOID PROFILE

Analysis Date/Time: 04/15/2020 0927 **Method:** HS/GC/FID (Internal Method-002) **Deviations from SOP:**
Analyst: DJ **Instrument:** Agilent 6890 None

<u>Terpene</u>	<u>Result (µg/g)</u>	<u>Result (%)</u>	
α-Bisabolol	169	0.0169	█
Camphene	19	0.00189	█
δ-3-Carene	110	0.011	█
β-Caryophyllene	1350	0.135	█
Caryophyllene oxide	-	-	
p-Cymene	34	0.0034	█
Eucalyptol	47	0.00466	█
Geraniol	39	0.00388	█
Guaiol	-	-	
α-Humulene	871	0.0871	█
Isopulegol	-	-	
d-Limonene	399	0.0399	█
Linalool	52	0.00521	█
β-Myrcene	840	0.084	█
cis-Nerolidol	-	-	
trans-Nerolidol	62	0.00617	█
α-Ocimene	24	0.0024	█
β-Ocimene	1147	0.115	█
α-Pinene	251	0.0251	█
β-Pinene	386	0.0386	█
α-Terpinene	58	0.00576	█
γ-Terpinene	75	0.00753	█
Terpinolene	2240	0.224	█
TOTAL	8171	0.817	



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

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Reporting Limit (µg/g): 2.05

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Cultivar (Strain) or Sample Description: Zsweet Inzanity **Date Completed:** 04/17/2020

PESTICIDES PROFILE

Analysis Date/Time: 04/15/2020 0927
Analyst: DJ

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

Deviations from SOP:
None

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

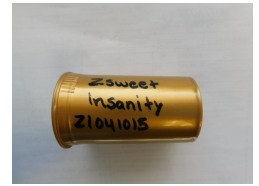
RESULT < 1/2 AL
1/2 AL < RESULT < AL
RESULT > AL

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	Sythane	Propiconazole	Tilt
DDVP	Dichlorvos	Naled	Dibrom	Propoxur	Baygon
Ethoprophos	Prophos	Phosmet	Imidan		

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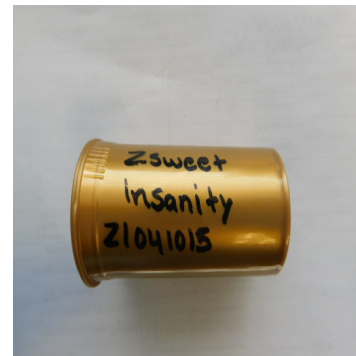
MYCOTOXIN PROFILE

Analysis Date/Time: 04/15/2020 0927
Analyst: DJ

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

Deviations from SOP:
None

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

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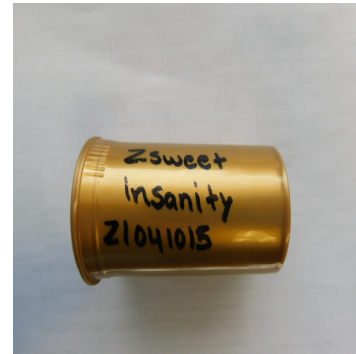
HEAVY METAL PROFILE

Analysis Date/Time: 04/15/2020 0927
Analyst: CC

Method: ICP/MS
Instrument: PerkinElmer Elan 9000

Deviations from SOP:
None

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

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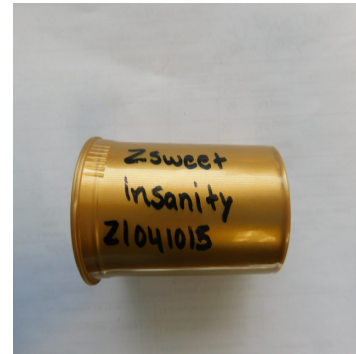
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MICROBIOLOGICAL PROFILE

Analysis Date/Time: 04/15/2020 0927 **Method:** Hardy Diagnostics CompactDry **Deviations from SOP:**
Analyst: KB **Instrument:** Thermo Incubator None

<u>Bacteria/Microbe</u>	<u>Result (CFU/g)</u>	<u>Action Level (CFU/g)</u>
Aerobic Plate Count, Total	Absent	-
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

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1/2 AL < RESULT < AL
RESULT > AL

Reporting Limit (CFU/g)
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