

SUMMARY OF ANALYSIS (SAMPLE ID: SA25717)

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: IM040910 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: Inzane in the Membrane **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 (%) 12.2	PASS/FAIL PASS	Water Activity (aw) 0.32 @ 20.1°C	PASS/FAIL PASS
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<u>Cannabinoids (Top 3)</u>	<u>(%)</u>	<u>mg/g</u>
THCa	23.5	235
CBGa	2.26	23
Δ9-THC	1.18	12
TOTAL CBD	0.0638	0.638
TOTAL THC	21.8	218
TOTAL CANNABINOIDS	27.2	272

<u>Terpenes (Top 5)</u>	<u>(%)</u>	<u>µg/g</u>
β-Caryophyllene	0.221	2207
Terpinolene	0.197	1970
α-Humulene	0.164	1644
β-Ocimene	0.127	1273
β-Myrcene	0.042	422
TOTAL TERPENES	0.933	9334

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

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CERTIFICATE OF ANALYSIS (SAMPLE ID: SA25717)

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CANNABINOID (POTENCY) PROFILE

Analysis Date/Time: 04/15/2020 0917 **Method:** HPLC/DAD **Moisture Content (%):** 12.22
Analyst: WW **Instrument:** Agilent 1100 **Water Activity (aw):** 0.3216 @ 20.12Å°C

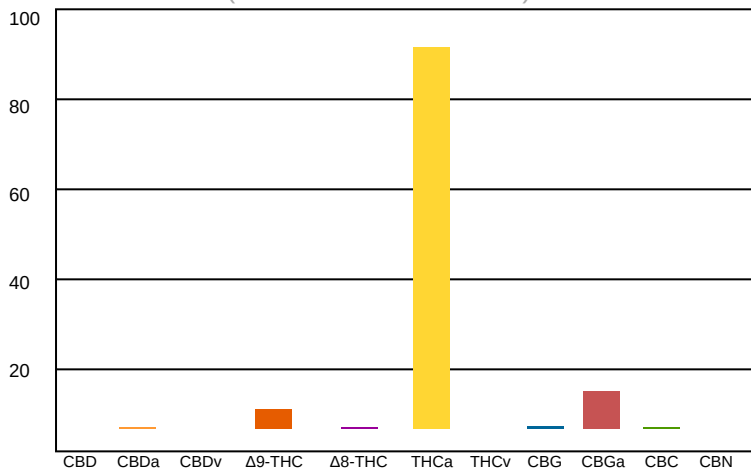
Cannabinoid	Result (%)	Result (mg/g)	Reporting Limit (mg/g)	Result (mg/mL)	Per Unit (mg)
CBD	-	-	0.0499	-	-
CBDa	0.0728	0.728	0.0499	-	0.728
CBDv	0.00618	0.0618	0.0499	-	0.0618
Δ9-THC	1.18	11.8	0.0499	-	12
Δ8-THC	0.0336	0.336	0.0499	-	0.336
THCa	23.5	235	0.0499	-	235
THCv	0.0099	0.099	0.0499	-	0.099
CBC	0.0301	0.301	0.0499	-	0.301
CBG	0.0964	0.964	0.0499	-	0.964
CBGa	2.26	22.6	0.0499	-	23
CBN	-	-	0.0499	-	-
TOTAL	27.2	272	-	-	272
TOTAL THC	21.8	218	-	-	218
TOTAL CBD	0.0638	0.638	-	-	0.638



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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TERPENOID PROFILE

Analysis Date/Time: 04/15/2020 0917 **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	327	0.0327	■
Camphene	26	0.00264	■
δ-3-Carene	76	0.00765	■
β-Caryophyllene	2207	0.221	■
Caryophyllene oxide	32	0.00323	■
p-Cymene	18	0.00182	■
Eucalyptol	-	-	
Geraniol	26	0.00258	■
Guaiol	-	-	
α-Humulene	1644	0.164	■
Isopulegol	92	0.00916	■
d-Limonene	140	0.014	■
Linalool	71	0.00709	■
β-Myrcene	422	0.0422	■
cis-Nerolidol	57	0.00575	■
trans-Nerolidol	209	0.0209	■
α-Ocimene	22	0.00222	■
β-Ocimene	1273	0.127	■
α-Pinene	227	0.0227	■
β-Pinene	349	0.0349	■
α-Terpinene	72	0.00723	■
γ-Terpinene	71	0.00707	■
Terpinolene	1970	0.197	■
TOTAL	9334	0.933	



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

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Reporting Limit (µg/g): 2

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Cultivar (Strain) or Sample Description: Inzane in the Membrane **Date Completed:** 04/17/2020

PESTICIDES PROFILE

Analysis Date/Time: 04/15/2020 0917
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
Etoxazole (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 0917
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 0917 **Method:** ICP/MS **Deviations from SOP:**
Analyst: CC **Instrument:** PerkinElmer Elan 9000 None

Heavy Metal	Result (µg/kg)	Action Level (µg/kg)
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

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MICROBIOLOGICAL PROFILE

Analysis Date/Time: 04/15/2020 0917 **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

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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