

SUMMARY OF ANALYSIS (SAMPLE ID: SA27112)

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: OR8452 Lot Number: IM051413 Batch Number: Not Entered	Sample Type: Primary Matrix: Flower Mass: 5g Date Collected: 05/15/2020 Date Received: 05/15/2020
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Cultivar (Strain) or Sample Description: Inzane in the Membrane **Date Completed:** 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.

Moisture Content (%) 14.9	PASS/FAIL PASS	Water Activity (aw) 0.45 @ 24.5°C	PASS/FAIL PASS
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<u>Cannabinoids (Top 3)</u>	<u>(%)</u>	<u>mg/g</u>
THCa	28.4	284
CBGa	2.38	24
Δ9-THC	1.05	10.5
TOTAL CBD	0.0663	0.663
TOTAL THC	26	260
TOTAL CANNABINOIDS	32.1	321

<u>Terpenes (Top 5)</u>	<u>(%)</u>	<u>µg/g</u>
β-Caryophyllene	0.841	8411
α-Humulene	0.418	4177
Terpinolene	0.296	2959
β-Ocimene	0.216	2159
Eucalyptol	0.125	1246
TOTAL TERPENES	2.28	22761

<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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REPORT OF LABORATORY ANALYSIS

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



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA27112)

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CANNABINOID (POTENCY) PROFILE

Analysis Date/Time: 05/15/2020 1514 **Method:** HPLC/DAD **Moisture Content (%):** 14.9
Analyst: WW **Instrument:** Agilent 1100 **Water Activity (aw):** 0.4465 @ 24.5Å°C

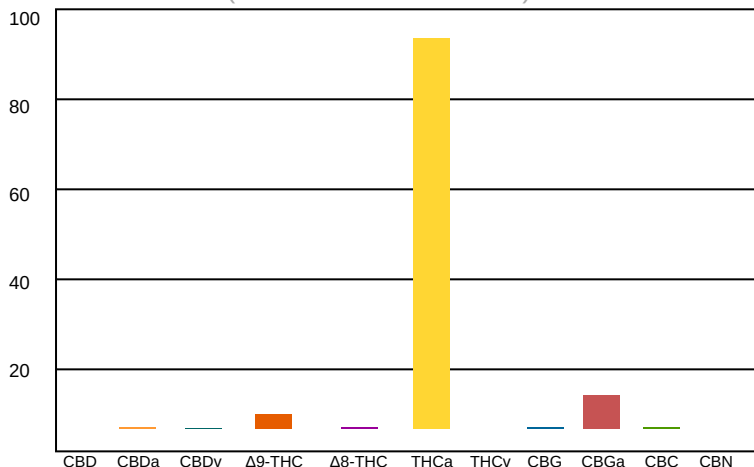
Cannabinoid	Result (%)	Result (mg/g)	Reporting Limit (mg/g)	Result (mg/mL)	Per Unit (mg)
CBD	-	-	0.0509	-	-
CBDa	0.0756	0.756	0.0509	-	0.756
CBDv	0.0187	0.187	0.0509	-	0.187
Δ9-THC	1.05	10.5	0.0509	-	10.5
Δ8-THC	0.0387	0.387	0.0509	-	0.387
THCa	28.4	284	0.0509	-	284
THCv	-	-	0.0509	-	-
CBC	0.0483	0.483	0.0509	-	0.483
CBG	0.079	0.79	0.0509	-	0.79
CBGa	2.38	23.8	0.0509	-	24
CBN	-	-	0.0509	-	-
TOTAL	32.1	321			321
TOTAL THC	26	260			260
TOTAL CBD	0.0663	0.663			0.663



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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Cultivar (Strain) or Sample Description: Inzane in the Membrane			Date Completed: 05/19/2020

TERPENOID PROFILE

Analysis Date/Time: 05/15/2020 1514 **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	811	0.0811	■
Camphene	-	-	
δ-3-Carene	269	0.0269	■
β-Caryophyllene	8411	0.841	■
Caryophyllene oxide	218	0.0218	■
p-Cymene	151	0.0151	■
Eucalyptol	1246	0.125	■
Geraniol	131	0.0131	■
Guaiol	-	-	
α-Humulene	4177	0.418	■
Isopulegol	181	0.0181	■
d-Limonene	398	0.0398	■
Linalool	294	0.0294	■
β-Myrcene	-	-	
cis-Nerolidol	-	-	
trans-Nerolidol	-	-	
α-Ocimene	249	0.0249	■
β-Ocimene	2159	0.216	■
α-Pinene	337	0.0337	■
β-Pinene	556	0.0556	■
α-Terpinene	-	-	
γ-Terpinene	215	0.0215	■
Terpinolene	2959	0.296	■
TOTAL	22761	2.28	



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

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"-" Not detected above RL.

Reporting Limit (µg/g): 2.04

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www.FASTLaboratories.com



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Cultivar (Strain) or Sample Description: Inzane in the Membrane **Date Completed:** 05/19/2020

PESTICIDES PROFILE

Analysis Date/Time: 05/15/2020 1514
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: 05/15/2020 1514
Analyst: DJ

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

Deviations from SOP:
None

<u>Mycotoxin</u>	<u>Result</u> (µg/kg)	<u>Action Level</u> (µg/kg)
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: 05/15/2020 1514 **Method:** ICP/MS **Deviations from SOP:**
Analyst: CC **Instrument:** PerkinElmer Elan 9000 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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MICROBIOLOGICAL PROFILE

Analysis Date/Time: 05/15/2020 1514 **Method:** Hardy Diagnostics CompactDry **Deviations from SOP:**
Analyst: DJ **Instrument:** Thermo Incubator None

<u>Bacteria/Microbe</u>	<u>Result (CFU/g)</u>	<u>Action Level (CFU/g)</u>
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

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