

SUMMARY OF ANALYSIS (SAMPLE ID: SA26534)

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: OR8270 Lot Number: CB05102 Batch Number: Not Entered	Sample Type: Primary Matrix: Flower Mass: 5g Date Collected: 05/04/2020 Date Received: 05/04/2020
Cultivar (Strain) or Sample Description: Chunkberry			Date Completed: 05/06/2020

*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 (%) 16.7	PASS/FAIL PASS	Water Activity (aw) 0.52 @ 22.3°C	PASS/FAIL PASS
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Cannabinoids (Top 3)	(%)	mg/g
THCa	19.1	191
CBGa	1.12	11
Δ9-THC	1.01	10.1
TOTAL CBD	0.0663	0.663
TOTAL THC	17.8	178
TOTAL CANNABINOIDS	21.5	215

Terpenes (Top 5)	(%)	µg/g
β-Caryophyllene	0.208	2075
α-Humulene	0.146	1457
β-Ocimene	0.106	1061
Linalool	0.056	561
α-Pinene	0.025	245
TOTAL TERPENES	0.579	5793

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



Scan the QR code to verify results.

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John K. Irvin
John K. Irvin, M.S.
Laboratory Director (Tulsa)



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA26534)

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Cultivar (Strain) or Sample Description: Chunkberry **Date Completed:** 05/06/2020

CANNABINOID (POTENCY) PROFILE

Analysis Date/Time: 05/04/2020 1620 **Method:** HPLC/DAD **Moisture Content (%):** 16.7
Analyst: WW **Instrument:** Agilent 1100 **Water Activity (aw):** 0.5216 @ 22.3Å°C

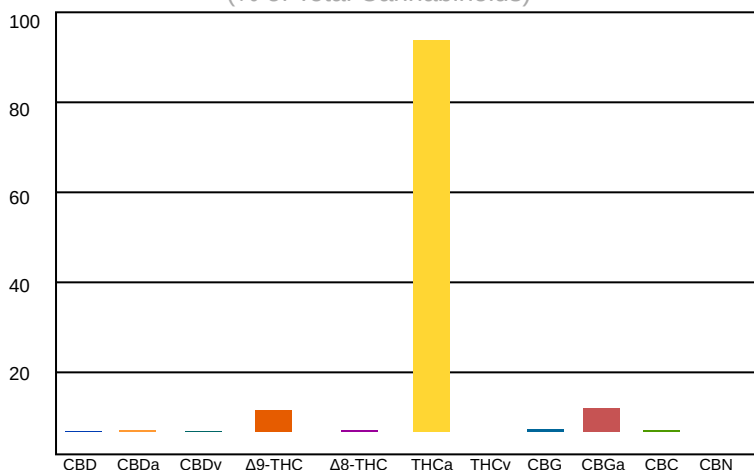
Cannabinoid	Result (%)	Result (mg/g)	Reporting Limit (mg/g)	Result (mg/mL)	Per Unit (mg)
CBD	0.0109	0.109	0.0509	-	0.109
CBDa	0.0631	0.631	0.0509	-	0.631
CBDv	0.0152	0.152	0.0509	-	0.152
Δ9-THC	1.01	10.1	0.0509	-	10.1
Δ8-THC	0.0302	0.302	0.0509	-	0.302
THCa	19.1	191	0.0509	-	191
THCv	0.00826	0.0826	0.0509	-	0.0826
CBC	0.032	0.32	0.0509	-	0.32
CBG	0.0898	0.898	0.0509	-	0.898
CBGa	1.12	11.2	0.0509	-	11
CBN	-	-	0.0509	-	-
TOTAL	21.5	215	-	-	215
TOTAL THC	17.8	178	-	-	178
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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TERPENOID PROFILE

Analysis Date/Time: 05/04/2020 1620 **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	-	-
Camphene	-	-
δ-3-Carene	-	-
β-Caryophyllene	2075	0.208
Caryophyllene oxide	154	0.0154
p-Cymene	-	-
Eucalyptol	-	-
Geraniol	69	0.00692
Guaiol	-	-
α-Humulene	1457	0.146
Isopulegol	-	-
d-Limonene	-	-
Linalool	561	0.0561
β-Myrcene	-	-
cis-Nerolidol	-	-
trans-Nerolidol	-	-
α-Ocimene	-	-
β-Ocimene	1061	0.106
α-Pinene	245	0.0245
β-Pinene	170	0.017
α-Terpinene	-	-
γ-Terpinene	-	-
Terpinolene	-	-
TOTAL	5793	0.579



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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PESTICIDES PROFILE

Analysis Date/Time: 05/04/2020 1620
Analyst: DJ

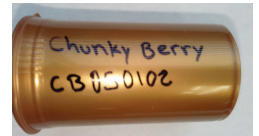
Method: LC/MS/MS
Instrument: Waters Acquity/TQD

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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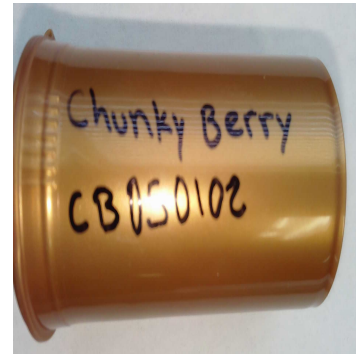
MYCOTOXIN PROFILE

Analysis Date/Time: 05/04/2020 1620
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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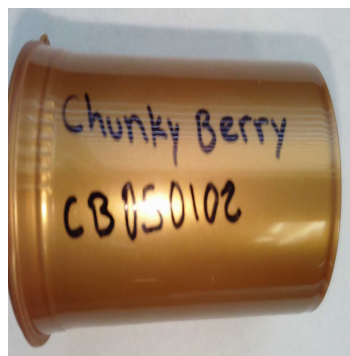
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HEAVY METAL PROFILE

Analysis Date/Time: 05/04/2020 1620 **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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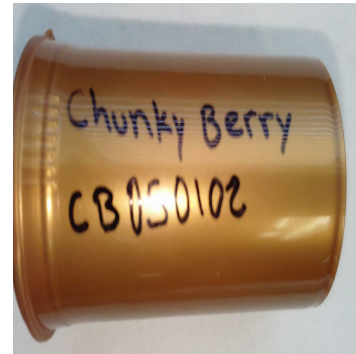
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MICROBIOLOGICAL PROFILE

Analysis Date/Time: 05/04/2020 1620 **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>
Aerobic Plate Count, Total	TNTC	-
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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