

SUMMARY OF ANALYSIS (SAMPLE ID: SA26292)

Testing Location: OKC 3680 E. I-240 Service Rd. Oklahoma City, OK 73135 License: LAAA-4Y4X-Z72Z	Customer ID: 32 CBD Plus USA 420 N Pennsylvania Ave Oklahoma City, OK 73107 License: Not Entered or N/A	Order ID: OR8179 Lot Number: Bin Batch Number: Not Entered	Sample Type: Primary Matrix: Industrial Hemp Mass: 5g Date Collected: 04/27/2020 Date Received: 04/27/2020
Cultivar (Strain) or Sample Description: Hemp Flower - Mid House			Date Completed: 04/29/2020

*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 (%) 11.0	PASS/FAIL PASS	Water Activity (aw) 0.38 @ 21.3°C	PASS/FAIL PASS
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Cannabinoids (Top 3)	(%)	mg/g
CBDa	11.6	116
THCa	0.418	4
CBD	0.306	3
TOTAL CBD	10.4	104
TOTAL THC	0.394	4
TOTAL CANNABINOIDS	12.6	126

Terpenes (Top 5)	(%)	µg/g
β-Myrcene	0.045	450
Linalool	0.017	173
α-Pinene	0.014	139
β-Ocimene	0.014	139
β-Pinene	0.013	126
TOTAL TERPENES	0.135	1355

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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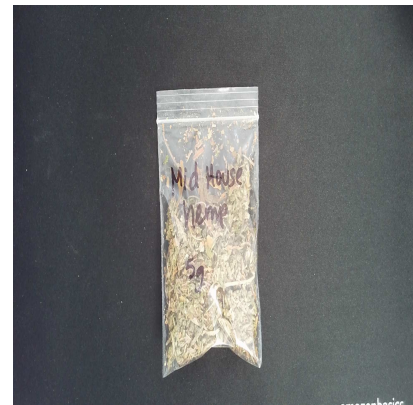
CERTIFICATE OF ANALYSIS (SAMPLE ID: SA26292)

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CANNABINOID (POTENCY) PROFILE

Analysis Date/Time: 04/28/2020 1135 **Method:** HPLC/DAD **Moisture Content (%) :** 11
Analyst: WW **Instrument:** Agilent 1100 **Water Activity (aw):** 0.3826 @ 21.33Å°C

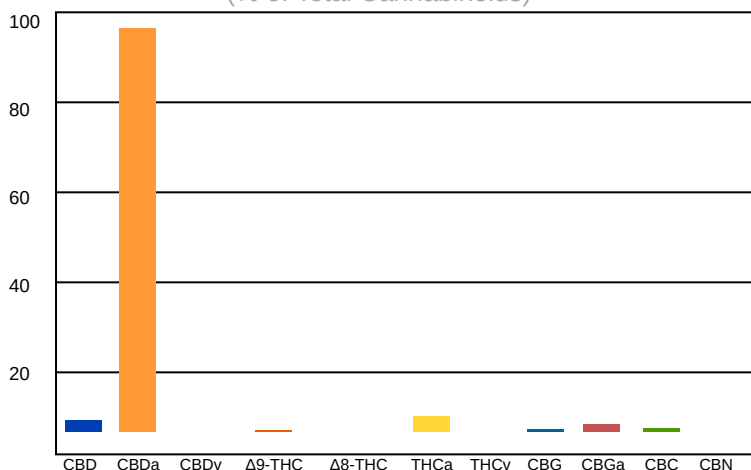
<u>Cannabinoid</u>	<u>Result (%)</u>	<u>Result (mg/g)</u>	<u>Reporting Limit (mg/g)</u>	<u>Result (mg/mL)</u>	<u>Per Unit (mg)</u>
CBD	0.306	3.06	0.0492	-	3
CBDa	11.6	116	0.0492	-	116
CBDv	-	-	0.0492	-	-
Δ9-THC	0.0272	0.272	0.0492	-	0.272
Δ8-THC	-	-	0.0492	-	-
THCa	0.418	4.18	0.0492	-	4
THCv	-	-	0.0492	-	-
CBC	0.0707	0.707	0.0492	-	0.707
CBG	0.0621	0.621	0.0492	-	0.621
CBGa	0.197	1.97	0.0492	-	1.97
CBN	-	-	0.0492	-	-
TOTAL	12.6	126			126
TOTAL THC	0.394	3.94			4
TOTAL CBD	10.4	104			104



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: 04/28/2020 1135 **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	63	0.00626	■
Camphene	-	-	
δ-3-Carene	-	-	
β-Caryophyllene	124	0.0124	■
Caryophyllene oxide	60	0.00604	■
p-Cymene	-	-	
Eucalyptol	-	-	
Geraniol	-	-	
Guaiol	-	-	
α-Humulene	-	-	
Isopulegol	45	0.00451	■
d-Limonene	-	-	
Linalool	173	0.0173	■
β-Myrcene	450	0.045	■
cis-Nerolidol	-	-	
trans-Nerolidol	35	0.00352	■
α-Ocimene	-	-	
β-Ocimene	139	0.0139	■
α-Pinene	139	0.0139	■
β-Pinene	126	0.0126	■
α-Terpinene	-	-	
γ-Terpinene	-	-	
Terpinolene	-	-	
TOTAL	1355	0.135	



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

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"-" Not detected above RL.

Reporting Limit (µg/g): 1.97

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Cultivar (Strain) or Sample Description: Hemp Flower - Mid House **Date Completed:** 04/29/2020

PESTICIDES PROFILE

Analysis Date/Time: 04/28/2020 1135
Analyst: DJ

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

Deviations from SOP:
None

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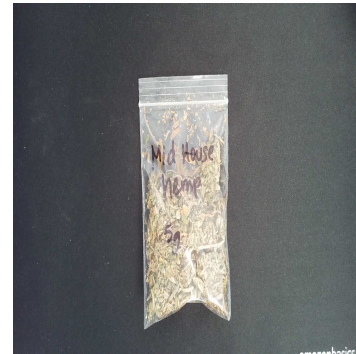
MYCOTOXIN PROFILE

Analysis Date/Time: 04/28/2020 1135
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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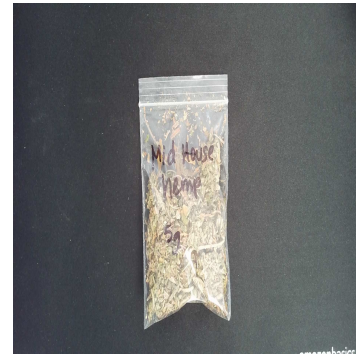
HEAVY METAL PROFILE

Analysis Date/Time: 04/28/2020 1135
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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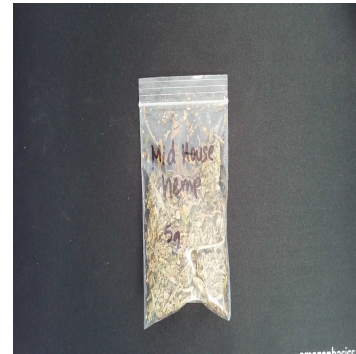
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MICROBIOLOGICAL PROFILE

Analysis Date/Time: 04/28/2020 1135 **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

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1

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