

**SUMMARY OF ANALYSIS (SAMPLE ID: SA2020-24219)**

<b>Testing Location:</b> OKC 3680 E. I-240 Service Rd. Oklahoma City, OK 73135 License: LAAA-4Y4X-Z7ZZ	<b>Customer ID:</b> 1448 8750 84th St Noble, OK 73068 License: PAAA-VJZG-KNP6	<b>Order ID:</b> OR2020-7598 <b>Lot Number:</b> BH101 <b>Batch Number:</b> 305	<b>Sample Type:</b> Primary <b>Matrix:</b> Concentrate <b>Mass:</b> 2g <b>Date Collected:</b> 03/16/2020 <b>Date Received:</b> 03/16/2020 <b>Date Completed:</b> 03/19/2020
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\*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 OMMMA rules to be effective April 1, 2020, limits on moisture are proposed at 15% and water activity at 0.65aw.

Moisture Content (%)	PASS/FAIL	Water Activity (aw)	PASS/FAIL
Not Tested	N/A	Not Tested	N/A
<b>Cannabinoids (Top 3)</b>			
		(%)	mg/g
THCa		75.3	753
Δ9-THC		3.28	33
CBGa		0.386	4
TOTAL CBD		0.144	1.44
TOTAL THC		69.3	693
TOTAL CANNABINOIDS		79.2	792
<b>Terpenes (Top 5)</b>			
		(%)	µg/g
β-Caryophyllene		0.893	8933
β-Myrcene		0.635	6353
α-Humulene		0.408	4083
d-Limonene		0.255	2553
α-Bisabolol		0.065	651
TOTAL TERPENES		2.35	23503

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



Scan the QR code to verify results.  
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Terpene	Result (µg/g)	Result (%)
α-Bisabolol	651	0.0651
Camphene	75	0.00748
δ-3-Carene	-	-
β-Caryophyllene	8933	0.893
Caryophyllene oxide	449	0.0449
p-Cymene	-	-
Eucalyptol	-	-
Geraniol	-	-
Guaiol	-	-
α-Humulene	4083	0.408
Isopulegol	-	-
d-Limonene	2553	0.255
Linalol	195	0.0195
β-Myrcene	6353	0.635
cis-Nerolidol	-	-
trans-Nerolidol	-	-
α-Ocimene	-	-
β-Ocimene	-	-
α-Pinene	85	0.00852
β-Pinene	125	0.0125
α-Terpinene	-	-
γ-Terpinene	-	-
Terpinolene	-	-
<b>TOTAL</b>	<b>23503</b>	<b>2.35</b>



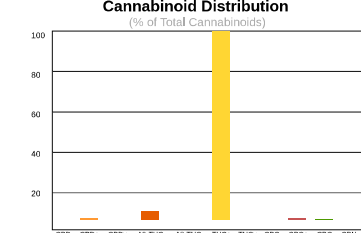
Abbreviations: HS = Headspace, GC = Gas Chromatography, MS = Mass Spectrometry, RL = Reporting Limit  
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\*-\* Not detected above RL.

**CERTIFICATE OF ANALYSIS (SAMPLE ID: SA2020-24219)**

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CANNABINOID (POTENCY) PROFILE					
Analysis Date/Time:	Method:	Instrument:		Moisture Content (%): - Water Activity (aw): -	
03/17/2020 1117	HPLC/DAD	Agilent 1100			
Analyst: WW					

Cannabinoid	Result (%)	Result (mg/g)	Reporting Limit (mg/g)	Result (mg/mL)	Per Unit (mg)
CBD	-	-	0.52	-	-
CBDa	0.165	1.65	0.52	-	1.65
CBDb	-	-	0.52	-	-
Δ9-THC	3.28	32.8	0.52	-	33
Δ8-THC	-	-	0.52	-	-
THCa	75.3	753	0.52	-	753
THCv	-	-	0.52	-	-
CBC	0.0579	0.579	0.52	-	0.579
CBG	-	-	0.52	-	-
CBGa	0.386	3.86	0.52	-	4
CBN	-	-	0.52	-	-
<b>TOTAL</b>	<b>79.2</b>	<b>792</b>			<b>792</b>
<b>TOTAL THC</b>	<b>69.3</b>	<b>693</b>			<b>693</b>
<b>TOTAL CBD</b>	<b>0.144</b>	<b>1.44</b>			<b>1.44</b>



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) + Δ8-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 Deviation, RSD - Relative Standard Deviation

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Solvent	Result (µg/g)	Action Level (µg/g)	Color Key
Acetone (67-63-1)	-	1000	RESULTS > 1/2 AL
Benzene (71-43-2)	-	2	RESULTS < AL
n-Butane (106-97-2)	-	1000	RESULTS > AL
2,2-Dimethylbutane (75-93-2)	-	60	Reporting Limit (µg/g)
2,3-Dimethylbutane (79-29-8)	-	60	1/2 of AL
Ethyl benzene (110-41-4)	-	430	
n-Heptane (142-82-5)	-	1000	*-* Not detected above reporting limit
n-Hexane (110-54-3)	-	60	
Isobutane (75-28-5)	-	1000	
Isopropanol (67-63-0)	-	1000	*-* o,m,p-Xylene and Ethylbenzene
2-Methylbutane (78-78-4)	-	1000	
2-Methylpentane (107-83-6)	-	60	
3-Methylpentane (96-10-0)	-	60	
n-Pentane (109-66-0)	-	1000	
n-Propane (74-98-6)	-	1000	
Toluene (108-88-3)	-	430	
o-Xylene (95-47-6)	-	430	
m,p-Xylene (108-38-3 or 106-42-3)	-	430	
Xylenes* (1330-20-7)	-	430	




Solvent	Synonym(s)	Solvent	Synonym(s)	Solvent	Synonym(s)
Acetonitrile	Methyl Cyanide, ACN	2-Ethoxyethanol	Celvolone, Ethyl glycol	Methanol	Methyl alcohol
1-Butanol	n-Butanol, Butyl Alcohol	Ethyl ether	Diethyl ether, Ether	2-Methylbutane	Isopentane
2-Butanol	sec-Butyl alcohol	Ethyl acetate	EtOAc	Methylene chloride	Dichloromethane
2-Butanone	Methyl ethyl ketone, MEK	Ethyl benzene	Phenylbenzene	2-Methylpentane	Isobexane
1,2-Dimethoxyethane	Monoglyme	Ethylene oxide	Oxirane	1-Pentanol	n-Amyl alcohol
2,3-Dimethylbutane	Neobexane	Isobutane	2-Methylpropane	Tetrahydrofuran	Propyl alcohol
2,3-Dimethylbutane	Diisopropyl	Isopropanol	2-Propanol, IPA	Tetramethylene sulfone	THF
N,N-Dimethylformamide	DMF	Isopropyl Acetate	Acetic acid isopropyl ester	Sulfidate	Sulfidate
Dimethylsulfoxide	DMSO			Xylene	Dimethylbenzene

Abbreviations: HS-Headspace, GC-Gas Chromatography, MS-Mass Spectrometry, RL-Reporting Limit, AL-Action Level  
CAS-Chemical Abstract Services  
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**PESTICIDES PROFILE**

<b>Analysis Date/Time:</b> 03/17/2020 1117 <b>Analyst:</b> DJ	<b>Method:</b> LC/MS/MS <b>Instrument:</b> Waters Acquity/TQD	<b>Deviations from SOP:</b> None	<b>Color Key</b> RESULT < 1/2 AL 1/2 AL < RESULT < AL RESULT > AL <b>Reporting Limit (µg/g)</b> 1/2 of AL "--" not detected above reporting limit "--" analyzed by GC/MS (all others analyzed by LC/MS/MS) Permethrin measured as the cumulative residue of the cis- and trans-permethrin isomers.	
<b>Pesticide</b>	<b>Result (µg/g)</b>	<b>Action Level (µg/g)</b>		
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 (130261-41-3)	-	0.5		
Malathion (121-75-5)	-	0.5		
Myclobutanil (88671-89-0)	-	0.5		
Permethrin* (52645-53-1)	-	0.5		
Spinosad A (168316-95-8)	-	0.5		
Spinosad D (168316-95-8)	-	0.5		
Spiromesifen (203594-90-1)	-	0.5		
Spirotetramat (203313-25-1)	-	0.5		
Tebuconazole (80443-1-0)	-	0.5		

Abbreviations: LC - Liquid Chromatography, GC - Gas Chromatography, MS - Mass Spectrometry, RL - Reporting Limit, AL - Action Level, CAS - Chemical Abstract Services


<b>Pesticide</b>	<b>Synonyms(s)</b>	<b>Pesticide</b>	<b>Synonyms(s)</b>	<b>Pesticide</b>	<b>Synonyms(s)</b>
Cyfluthrin	Baythroid	Methidathion	Systhane	Propiconazole	Tilt
DWP	Dichlofies	Naled	Dibrom	Propoxur	Baygon
Ethionphos	Prophos	Phosmet	Imidan		

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**MYCOTOXIN PROFILE**

<b>Analysis Date/Time:</b> 03/17/2020 1117 <b>Analyst:</b> DJ	<b>Method:</b> LC/MS/MS <b>Instrument:</b> Waters Acquity/TQD	<b>Deviations from SOP:</b> None	<b>Color Key</b> RESULT < 1/2 AL 1/2 AL < RESULT < AL RESULT > AL <b>Reporting Limit (CFU/g)</b> 1 "--" not detected above reporting limit	
<b>Mycotoxin</b>	<b>Result (µg/kg)</b>	<b>Action Level (µg/kg)</b>		
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


<b>Color Key</b> RESULT < 1/2 AL 1/2 AL < RESULT < AL RESULT > AL <b>Reporting Limit (CFU/g)</b> 1 "--" not detected above reporting limit
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**HEAVY METAL PROFILE**

<b>Analysis Date/Time:</b> 03/17/2020 1117 <b>Analyst:</b> CC	<b>Method:</b> ICP/MS <b>Instrument:</b> PerkinElmer Elan 9000	<b>Deviations from SOP:</b> None	<b>Color Key</b> RESULT < 1/2 AL 1/2 AL < RESULT < AL RESULT > AL <b>Reporting Limit (µg/kg)</b> 50 "--" not detected above reporting limit	
<b>Heavy Metal</b>	<b>Result (µg/kg)</b>	<b>Action Level (µg/kg)</b>		
Arsenic (As)	-	400		
Cadmium (Cd)	-	440		
Lead (Pb)	-	1000		
Mercury (Hg)	-	200		


Abbreviations: ICP - Inductively-Coupled Plasma, OES - Optical Emission Spectroscopy, MS - Mass Spectrometry, RL - Reporting Limit, AL - Action Level

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**MICROBIOLOGICAL PROFILE**

<b>Analysis Date/Time:</b> 03/17/2020 1117 <b>Analyst:</b> KB	<b>Method:</b> Hardy Diagnostics CompactDry <b>Instrument:</b> Thermo Incubator	<b>Deviations from SOP:</b> None	<b>Color Key</b> RESULT < 1/2 AL 1/2 AL < RESULT < AL RESULT > AL <b>Reporting Limit (CFU/g)</b> 1 "--" not detected above reporting limit	
<b>Bacteria/Microbe</b>	<b>Result (CFU/g)</b>	<b>Action Level (CFU/g)</b>		
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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