

**SUMMARY OF ANALYSIS (SAMPLE ID: SA2020-24796)**

<b>Testing Location:</b> OKC 3680 E. I-240 Service Rd. Oklahoma City, OK 73135 License: LAAA-4Y4X-Z7ZZ	<b>Customer ID:</b> 1448 Noble Nectar 8750 84th St Noble, OK 73068 License: PAAA-VJZG-KNPG	<b>Order ID:</b> OR2020-7745 <b>Lot Number:</b> MR01 <b>Batch Number:</b> 0316	<b>Sample Type:</b> Primary <b>Matrix:</b> Concentrate <b>Mass:</b> 2g <b>Date Collected:</b> 03/25/2020 <b>Date Received:</b> 03/25/2020 <b>Date Completed:</b> 03/30/2020
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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

Cannabinoids (Top 3)	(%)	mg/g
THCa	79.5	795
Δ9-THC	3.45	35
CBGa	1.07	10.7
TOTAL CBD	0.157	1.57
TOTAL THC	73.2	732
TOTAL CANNABINOIDS	84.4	844

Terpenes (Top 5)	(%)	µg/g
β-Caryophyllene	2.644	26444
β-Myrcene	1.636	16363
α-Humulene	1.526	15258
d-Limonene	0.887	8874
Guaiol	0.173	1726
TOTAL TERPENES	7.65	76479

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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Ke W Petty  
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**CERTIFICATE OF ANALYSIS (SAMPLE ID: SA2020-24796)**

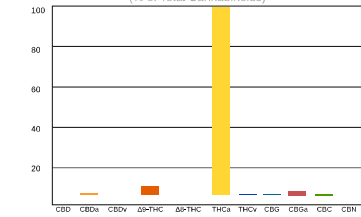
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**CANNABINOID (POTENCY) PROFILE**  
Analysis Date/Time: 03/26/2020 0926 Method: HPLC/DAD Instrument: Agilent 1100 Moisture Content (%): - Water Activity (aw): -  
Analyst: WW

Cannabinoid	Result (%)	Result (mg/g)	Reporting Limit (mg/g)	Result (mg/mL)	Per Unit (mg)
CBD	-	-	0.507	-	-
CBDA	0.179	1.79	0.507	-	1.79
CBDv	-	-	0.507	-	-
Δ9-THC	3.45	34.5	0.507	-	35
Δ8-THC	-	-	0.507	-	-
THCa	79.5	795	0.507	-	795
THCv	0.0786	0.786	0.507	-	0.786
CBC	0.0535	0.535	0.507	-	0.535
CBG	0.0794	0.794	0.507	-	0.794
CBGa	1.07	10.7	0.507	-	10.7
CBN	-	-	0.507	-	-
<b>TOTAL</b>	<b>84.4</b>	<b>844</b>			<b>844</b>
<b>TOTAL THC</b>	<b>73.2</b>	<b>732</b>			<b>732</b>
<b>TOTAL CBD</b>	<b>0.157</b>	<b>1.57</b>			<b>1.57</b>



**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) + 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 Difference, RSD - Relative Standard Deviation

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**TERPENOID PROFILE**  
Analysis Date/Time: 03/26/2020 0926 Method: HS/GC/FID (Internal Method-002) Instrument: Agilent 6890 Deviations from SOP: None  
Analyst: DJ

Terpene	Result (µg/g)	Result (%)
α-Bisabolol	1087	0.109
Camphene	404	0.0404
δ-3-Carene	-	-
β-Caryophyllene	26444	2.644
Caryophyllene oxide	984	0.0984
p-Cymene	24	0.00243
Eucalyptol	-	-
Geraniol	-	-
Guaiol	1726	0.173
α-Humulene	15258	1.53
Isopulegol	-	-
d-Limonene	8874	0.887
Linalol	1718	0.172
β-Myrcene	16363	1.64
cis-Nerolidol	-	-
trans-Nerolidol	-	-
α-OCimene	-	-
β-OCimene	-	-
α-Pinene	1099	0.11
β-Pinene	870	0.087
α-Terpinene	176	0.0176
γ-Terpinene	-	-
Terpinolene	1450	0.145
<b>TOTAL</b>	<b>76479</b>	<b>7.65</b>



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

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\*- Not detected above RL.

Reporting Limit (µg/g): 20.3

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**RESIDUAL SOLVENT PROFILE**  
Analysis Date/Time: 03/26/2020 0926 Method: USP <467> Instrument: Agilent 6890 Deviations from SOP: None  
Analyst: CC

Solvent	Result (µg/g)	Action Level (µg/g)	Color Key
Acetone (67-63-1)	-	1000	RESULTS > AL
Benzene (71-43-2)	2	2	1/2 AL < RESULT < AL
n-Butane (106-97-2)	-	1000	RESULTS > AL
2,2-Dimethylbutane (75-93-2)	-	60	RESULTS > AL
2,3-Dimethylbutane (79-29-8)	-	60	RESULTS > AL
Ethyl benzene (100-41-4)	-	430	RESULTS > AL
n-Heptane (142-92-5)	-	1000	RESULTS > AL
n-Hexane (110-54-3)	-	60	RESULTS > AL
Isobutane (75-28-5)	-	1000	RESULTS > AL
Isopropanol (67-63-0)	-	1000	RESULTS > AL
2-Methylbutane (78-78-4)	-	1000	RESULTS > AL
2-Methylpentane (107-83-6)	-	60	RESULTS > AL
3-Methylpentane (96-10-0)	-	60	RESULTS > AL
n-Pentane (109-66-0)	-	1000	RESULTS > AL
n-Propane (74-98-6)	-	1000	RESULTS > AL
Toluene (108-88-3)	-	180	RESULTS > AL
o-Xylene (95-47-6)	-	430	RESULTS > AL
m,p-Xylene (108-38-3 or 106-42-3)	-	430	RESULTS > AL
Xylenes* (1330-20-7)	-	430	RESULTS > AL



\*- Not detected above reporting limit

\*\* - o,m,p-Xylene and Ethylbenzene

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	Phenylhexane	2-Methylpentane	Isobexane
1,2-Dimethoxyethane	Monoglyme	Ethylene oxide	1,2-Ethanedithiol	1-Pentanol	n-Amyl alcohol
2,3-Dimethylbutane	Neobexane	2-Methylpropane	Oxirane	1-Propanol	Propyl alcohol
2,3-Dimethylbutane	Diisopropyl	Isopropanol	2-Methylpropane	Tetrahydrofuran	THF
N,N-Dimethylformamide	DMF	Isopropyl Acetate	2-Propanol, IPA	Tetramethylene sulfone	Sulfonane
Dimethylsulfoxide	DMSO		Acetic acid isopropyl ester	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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**Cultivar (Strain) or Sample Description:** Mo Rockin Kush

**PESTICIDES PROFILE**

<b>Analysis Date/Time:</b> 03/26/2020 0926 <b>Analyst:</b> DJ	<b>Method:</b> LC/MS/MS <b>Instrument:</b> Waters Acquity/TQD	<b>Deviations from SOP:</b> None
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Pesticide	Result (ug/g)	Action Level (ug/g)	Color Key
Abamectin (71751-41-2)	-	0.5	RESULT < 1/2 AL
Azoxystrobin (131860-33-8)	-	0.5	1/2 AL < RESULT < AL
Bifenazate* (149877-41-8)	-	0.5	RESULT > AL
Etiozazole (153233-91-1)	-	0.5	Reporting Limit (ug/g)
Imazalil (35554-44-0)	-	0.5	1/2 of AL
Imidacloprid (138261-41-3)	-	0.5	"-" not detected above reporting limit
Malathion (121-75-5)	-	0.5	"-" not detected above reporting limit
Myclobutanil (89671-89-0)	-	0.5	"*" analyzed by GC/MS (all others analyzed by LC/MS/MS)
Permethrin* (52645-53-1)	-	0.5	Permethrins measured as the cumulative residue of the cis- and trans-permethrin isomers.
Spinosad A (168316-95-4)	-	0.5	
Spinosad D (168316-95-4)	-	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

Pesticide	Synonyms(s)	Pesticide	Synonyms(s)	Pesticide	Synonyms(s)
Cyfluthrin	Baythroid	Methidathion	Systhane	Propiconazole	Tilt
DWP	Dichlorvos	Naled	Dibrom	Propoxur	Barygon
Ethionphos	Prophos	Phosmet	Imidan		

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**Cultivar (Strain) or Sample Description:** Mo Rockin Kush

**HEAVY METAL PROFILE**

<b>Analysis Date/Time:</b> 03/26/2020 0926 <b>Analyst:</b> CC	<b>Method:</b> ICP/MS <b>Instrument:</b> PerkinElmer Elan 9000	<b>Deviations from SOP:</b> None
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Heavy Metal	Result (ug/kg)	Action Level (ug/kg)	Color Key
Arsenic (As)	-	400	RESULT < 1/2 AL
Cadmium (Cd)	-	440	1/2 AL < RESULT < AL
Lead (Pb)	-	1000	RESULT < AL
Mercury (Hg)	-	200	Reporting Limit (ug/kg)
		50	"-" not detected above reporting limit

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

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**Cultivar (Strain) or Sample Description:** Mo Rockin Kush

**MYCOTOXIN PROFILE**

<b>Analysis Date/Time:</b> 03/26/2020 0926 <b>Analyst:</b> DJ	<b>Method:</b> LC/MS/MS <b>Instrument:</b> Waters Acquity/TQD	<b>Deviations from SOP:</b> None
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Mycotoxin	Result (ug/kg)	Action Level (ug/kg)	Color Key
Aflatoxin B1	-	20	RESULT < 1/2 AL
Aflatoxin B2	-	20	1/2 AL < RESULT < AL
Aflatoxin G1	-	20	RESULT < AL
Aflatoxin G2	-	20	Reporting Limit (CFU/g)
Ochratoxin A	-	20	"-" not detected above reporting limit

Abbreviations: EC - Escherichia Coli, CFU - Colony-Forming Unit, RL - Reporting Limit, AL - Action Level

Mycotoxin	Result (ug/kg)	Action Level (ug/kg)	Color Key
Aflatoxin B1	-	20	RESULT < 1/2 AL
Aflatoxin B2	-	20	1/2 AL < RESULT < AL
Aflatoxin G1	-	20	RESULT < AL
Aflatoxin G2	-	20	Reporting Limit (CFU/g)
Ochratoxin A	-	20	"-" not detected above reporting limit

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**Cultivar (Strain) or Sample Description:** Mo Rockin Kush

**MICROBIOLOGICAL PROFILE**

<b>Analysis Date/Time:</b> 03/26/2020 0926 <b>Analyst:</b> KB	<b>Method:</b> Hardy Diagnostics CompactDry <b>Instrument:</b> Thermo Incubator	<b>Deviations from SOP:</b> None
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Bacteria/Microbe	Result (CFU/g)	Action Level (CFU/g)	Color Key
Aerobic Plate Count, Total	Absent	-	RESULT < 1/2 AL
Escherichia Coli (E. Coli)	Absent	1	1/2 AL < RESULT < AL
Mold	Absent	10000	RESULT < AL
Yeast	Absent	10000	Reporting Limit (CFU/g)
Salmonella spp.	Absent	1	"-" not detected above reporting limit

Abbreviations: EC - Escherichia Coli, CFU - Colony-Forming Unit, RL - Reporting Limit, AL - Action Level, NT - Not Tested

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