

**SUMMARY OF ANALYSIS (SAMPLE ID: SA2020-23900)**

<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> OR2020-7516 <b>Lot Number:</b> MZ001 <b>Batch Number:</b> 0295	<b>Sample Type:</b> Primary <b>Matrix:</b> Concentrate <b>Mass:</b> 2g <b>Date Collected:</b> 03/10/2020 <b>Date Received:</b> 03/10/2020 <b>Date Completed:</b> 03/13/2020
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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>			
THCa		74	740
Δ9-THC		3.27	33
CBGa		0.282	3
TOTAL CBD		0.128	1.28
TOTAL THC		68.1	681
TOTAL CANNABINOIDS		77.7	777
<b>Terpenes (Top 5)</b>			
β-Caryophyllene		1.461	14605
β-Myrcene		1.073	10732
α-Limonene		0.779	7794
α-Humulene		0.712	7124
Terpinolene		0.108	1076
TOTAL TERPENES		4.36	43645

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



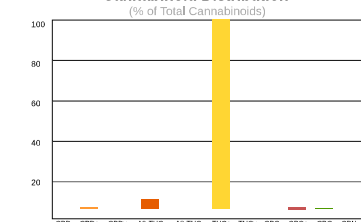
Scan the QR code to verify results.  
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**CERTIFICATE OF ANALYSIS (SAMPLE ID: SA2020-23900)**

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CANNABINOID (POTENCY) PROFILE					
Analysis Date/Time:	Method:	Instrument:		Moisture Content (%): - Water Activity (aw): -	
03/11/2020 12:29	HPLC/DAD	Agilent 1100			
Analyst: WW					
Cannabinoid	Result (%)	Result (mg/g)	Reporting Limit (mg/mL)	Result (mg)	Per Unit (mg)
CBD	-	-	0.501	-	-
CBDA	0.146	1.46	0.501	-	1.46
CBDv	-	-	0.501	-	-
Δ9-THC	3.27	32.7	0.501	-	33
Δ8-THC	-	-	0.501	-	-
THCa	74	740	0.501	-	740
THCv	-	-	0.501	-	-
CBC	0.0607	0.607	0.501	-	0.607
CBG	-	-	0.501	-	-
CBGa	0.282	2.82	0.501	-	3
CBN	-	-	0.501	-	-
TOTAL	77.7	777	-	777	-
TOTAL THC	68.1	681	-	681	-
TOTAL CBD	0.128	1.28	-	1.28	-



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.

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**TERPENOID PROFILE**

Analysis Date/Time: 03/11/2020 12:29 Method: HS/GC/FID (Internal Method-002) Instrument: Agilent 6890 Deviations from SOP: None

Terpene	Result (μg/g)	Result (%)
α-Bisabolol	138	0.0138
Camphene	497	0.0497
δ-3-Carene	-	-
β-Caryophyllene	14605	1.46
Caryophyllene oxide	-	-
p-Cymene	-	-
Eucalyptol	-	-
Geraniol	-	-
Guaiol	275	0.0275
α-Humulene	7124	0.712
Isopulegol	-	-
d-Limonene	7794	0.779
Linalol	194	0.0194
β-Myrcene	10732	1.07
cis-Nerolidol	-	-
trans-Nerolidol	-	-
α-Ocimene	-	-
β-Ocimene	-	-
α-Pinene	523	0.0523
β-Pinene	419	0.0419
α-Terpinene	188	0.0188
γ-Terpinene	80	0.00802
Terpinolene	1076	0.108
TOTAL	43645	4.36



Abbreviations: HS = Headspace, GC = Gas Chromatography, MS = Mass Spectrometry, RL = Reporting Limit  
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**RESIDUAL SOLVENT PROFILE**

Analysis Date/Time: 03/11/2020 12:29 Method: USP <467> Instrument: Agilent 6890 Deviations from SOP: None

Solvent	Result (μg/g)	Action Level (μg/g)	Color Key
Acetone (67-64-1)	-	1000	RESULT > AL
Benzene (71-43-2)	2	2	1/2 AL < RESULT < AL
n-Butane (106-97-2)	-	1000	RESULTS > AL
2,2-Dimethylbutane (75-95-2)	60	60	Reporting Limit (μg/g)
2,3-Dimethylbutane (79-29-8)	60	60	1/2 of AL
Ethyl benzene (100-41-4)	430	430	
n-Heptane (142-82-5)	1000	1000	"-" not detected above reporting limit
n-Hexane (110-54-3)	60	60	
Isobutane (75-28-5)	1000	1000	** = o,m,p-Xylene and Ethylbenzene
Isopropanol (67-63-0)	1000	1000	
2-Methylbutane (78-78-4)	1000	1000	
2-Methylpentane (107-83-6)	60	60	
3-Methylpentane (96-10-0)	60	60	
n-Pentane (109-66-0)	1000	1000	
n-Propane (74-98-6)	1000	1000	
Toluene (108-88-3)	180	180	
o-Xylene (95-47-6)	430	430	
m,p-Xylene (108-38-3 or 106-42-3)	430	430	
Xylenes* (1330-20-7)	430	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	1,2-Ethanedithiol	1-Pentanol	n-Amyl alcohol
2,3-Dimethylbutane	Neobexane	Isobutane	Oxirane	1-Propanol	Propyl alcohol
2,3-Dimethylbutane	Diisopropyl	Isopropanol	2-Methylpropane	Tetrahydrofuran	THF
N,N-Dimethylformamide	DMF	Isopropyl Acetate	Acetic acid isopropyl ester	Tetramethylene sulfone	Sulfidene
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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License: LAAA-4Y4X-Z7ZZ

**Customer ID:** 1448  
Noble Nectar  
8750 84th St  
Noble, OK 73068  
License: PAAA-VJZG-KNP6

**Order ID:** OR2020-7516  
**Lot Number:** MZ001  
**Batch Number:** 0295

**Sample Type:** Primary  
**Matrix:** Concentrate  
**Mass:** 2g  
**Date Collected:** 03/10/2020  
**Date Received:** 03/10/2020  
**Date Completed:** 03/13/2020

**Cultivar (Strain) or Sample Description:** Mandarin Zketteles

PESTICIDES PROFILE

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 (121-77-5)	-	0.5	"*" analyzed by GC/MS (all others analyzed by LC/MS/MS)
Myclobutanil (89671-89-0)	-	0.5	Permethrins measured as the cumulative residue of the cis- and trans-permethrin isomers.
Permethrin* (52645-53-1)	-	0.5	
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
DIMP	Dichlorvos	Naled	Dibrom	Propoxur	Barygon
Ethofenprox	Prophos	Phosmet	Imidan		

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MYCOTOXIN PROFILE

Mycotoxin	Result (ug/kg)	Action Level (ug/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

Heavy Metal	Result (ug/kg)	Action Level (ug/kg)
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

Color Key
RESULT < 1/2 AL
1/2 AL < RESULT < AL
RESULT > AL
Reporting Limit (ug/kg)
50

"-" not detected above reporting limit

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MICROBIOLOGICAL PROFILE

Bacteria/Microbe	Result (CFU/g)	Action Level (CFU/g)
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

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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