

SUMMARY OF ANALYSIS (SAMPLE ID: SA2020-23902)

Testing Location: OKC 3680 E. I-240 Service Rd. Oklahoma City, OK 73135 License: LAAA-4Y4X-Z7ZZ	Customer ID: 1448 Noble Nectar 8750 84th St Noble, OK 73068 License: PAAA-VJZG-KNPG	Order ID: OR2020-7516 Lot Number: GMOZ01 Batch Number: 0300	Sample Type: Primary Matrix: Concentrate Mass: 2g Date Collected: 03/10/2020 Date Received: 03/10/2020 Date Completed: 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

Cannabinoids (Top 3)	(%)	mg/g
THCa	71.2	712
Δ9-THC	2.58	26
CBGa	0.461	5
TOTAL CBD	0.148	1.48
TOTAL THC	65.1	651
TOTAL CANNABINOIDS	74.5	745

Terpenes (Top 5)	(%)	µg/g
β-Myrcene	1.907	19068
d-Limonene	1.096	10959
β-Caryophyllene	0.982	9819
α-Humulene	0.336	3358
α-Pinene	0.182	1821
TOTAL TERPENES	5.01	50068

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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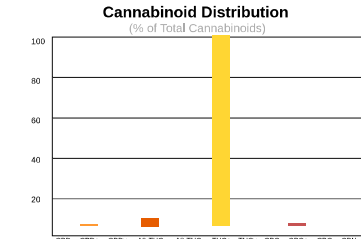
CERTIFICATE OF ANALYSIS (SAMPLE ID: SA2020-23902)

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CANNABINOID (POTENCY) PROFILE

Analysis Date/Time:	Method:	Moisture Content (%):
03/11/2020 1210	HPLC/DAD	-
Analyst: WW	Instrument: Agilent 1100	Water Activity (aw): -

Cannabinoid	Result (%)	Result (mg/g)	Reporting Limit (mg)	Result (mg/mL)	Per Unit (mg)
CBD	-	-	0.514	-	-
CBDa	0.169	1.69	0.514	-	1.69
CBVd	-	-	0.514	-	-
Δ9-THC	2.58	25.8	0.514	-	26
Δ8-THC	-	-	0.514	-	-
THCa	71.2	712	0.514	-	712
THCv	-	-	0.514	-	-
CBC	-	-	0.514	-	-
CBG	-	-	0.514	-	-
CBGa	0.461	4.61	0.514	-	5
CBN	-	-	0.514	-	-
TOTAL	74.5	745			745
TOTAL THC	65.1	651			651
TOTAL CBD	0.148	1.48			1.48



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:	Method:	Deviations from SOP:
03/11/2020 1210	HS/GC/FID (Internal Method-002)	None
Analyst: DJ	Instrument: Agilent 6890	

Terpene	Result (µg/g)	Result (%)
α-Bisabolol	-	-
Camphene	914	0.0914
δ-3-Carene	-	-
β-Caryophyllene	9819	0.982
Caryophyllene oxide	-	-
p-Cymene	-	-
Eucalyptol	-	-
Geraniol	-	-
Guaiol	195	0.0195
α-Humulene	3358	0.336
Isopulegol	-	-
d-Limonene	10959	1.1
Linalol	101	0.0101
β-Myrcene	19068	1.91
cis-Nerolidol	-	-
trans-Nerolidol	-	-
α-Ocimene	364	0.0364
β-Ocimene	1014	0.101
α-Pinene	1821	0.182
β-Pinene	788	0.0788
α-Terpinene	272	0.0272
γ-Terpinene	146	0.0146
Terpinolene	1249	0.125
TOTAL	50068	5.01

Reporting Limit (µg/g): 20.6



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

Analysis Date/Time:	Method:	Deviations from SOP:
03/11/2020 1210	USP <467>	None
Analyst:	Instrument: Agilent 6890	

Solvent	Result (µg/g)	Action Level (µg/g)	Color Key
Acetone (67-64-1)	-	1000	RESULT > 1/2 AL
Benzene (71-43-2)	-	2	1/2 AL < RESULT < AL
n-Butane (106-97-2)	-	1000	RESULT > 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	"-" not detected above reporting limit
n-Heptane (142-82-5)	-	1000	** - o,m,p-Xylene and Ethylbenzene
n-Hexane (110-54-3)	-	60	
Isobutane (75-28-5)	-	1000	
Isopropanol (67-63-0)	-	1000	
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	Cellulosolve, 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	Ethyl Ac	Methylene chloride	Dichloromethane
2-Butanone	Methyl ethyl ketone, MEK	Ethyl benzene	Phenylbenzene	2-Methylpentane	Isobexane
1,2-Dimethoxyethane	Monoglyme	Ethylene glycol	1,2-Ethandiol	1-Pentanol	n-Amyl alcohol
2,3-Dimethylbutane	Neohexane	Ethylene oxide	Oxirane	1-Propanol	Propyl alcohol
2,3-Dimethylbutane	Neohexane	Isobutane	2-Methylpropane	Tetrahydrofuran	THF
N,N-Dimethylformamide	DMF	Isopropanol	2-Propanol, IPA	Tetramethylene sulfone	Sulfidane
Dimethylsulfoxide	DMSO	Isopropyl Acetate	Acetic acid isopropyl ester	Xylene	Dimethylbenzene

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3680 E. I-240 Service Rd. 8750 84th St GMOZ01 Mass: 2g
Oklahoma City, OK 73135 Noble, OK 73068 Batch Number: Date Collected: 03/10/2020
License: LAAA-4Y4X-Z7ZZ License: PAAA-VJZG-KNPG 0300 Date Received: 03/10/2020
Cultivar (Strain) or Sample Description: GMO Zkettelez Date Completed: 03/13/2020

PESTICIDES PROFILE

Pesticide	Result (ppb)	Action Level (ppb)	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 (ppb/g)
Imazali (355544-4-0)	-	0.5	1/2 of AL
Imidacloprid (138261-41-3)	-	0.5	"-" not detected above reporting limit
Malathion (121-75-5)	-	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.
Permethrins* (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	Systane	Propiconazole	Tilt
DIMP	Dichlorvos	Naled	Dibrom	Propoxur	Baygon
Ethionphos	Prophos	Phosmet	Imidan		

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MYCOTOXIN PROFILE

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