

SUMMARY OF ANALYSIS (SAMPLE ID: SA2020-24216)

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-KNP6	Order ID: OR2020-7598 Lot Number: SL01 Batch Number: 0195	Sample Type: Primary Matrix: Concentrate Mass: 2g Date Collected: 03/16/2020 Date Received: 03/16/2020 Date Completed: 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

Cannabinoids (Top 3)	(%)	mg/g
THCa	67.8	678
CBGa	1.55	16
Δ9-THC	1.49	15
TOTAL CBD	0.197	1.97
TOTAL THC	60.9	609
TOTAL CANNABINOIDS	71.3	713

Terpenes (Top 5)	(%)	μg/g
α-Limonene	1.987	19872
β-Caryophyllene	1.902	19022
β-Myrcene	0.843	8430
α-Humulene	0.759	7594
Terpinolene	0.234	2337
TOTAL TERPENES	6.67	66700

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	1588	0.159
Camphene	1596	0.16
δ-3-Carene	-	-
β-Caryophyllene	19022	1.9
Caryophyllene oxide	-	-
p-Cymene	87	0.00868
Eucalyptol	-	-
Geraniol	178	0.0178
Guaiol	1219	0.122
α-Humulene	7594	0.759
Isopulegol	-	-
d-Limonene	19872	1.99
Linalol	-	-
β-Myrcene	8430	0.843
cis-Nerolidol	-	-
trans-Nerolidol	-	-
α-Ocimene	-	-
β-Ocimene	-	-
α-Pinene	2170	0.217
β-Pinene	1748	0.175
α-Terpinene	550	0.055
γ-Terpinene	312	0.0312
Terpinolene	2337	0.234
TOTAL	66700	6.67



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

Reporting Limit (μg/g): 19.7



CERTIFICATE OF ANALYSIS (SAMPLE ID: SA2020-24216)

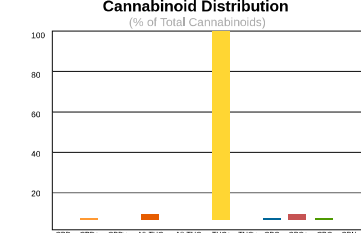
Testing Location: OKC 3680 E. I-240 Service Rd. Oklahoma City, OK 73135 License: LAAA-4Y4X-Z7ZZ	Customer ID: 1448 Noble Nectar 8750 84th St Noble, OK 73068 License: PAAA-VJZG-KNP6	Order ID: OR2020-7598 Lot Number: SL01 Batch Number: 0195	Sample Type: Primary Matrix: Concentrate Mass: 2g Date Collected: 03/16/2020 Date Received: 03/16/2020 Date Completed: 03/19/2020
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Analysis Date/Time:	Method:	Moisture Content (%):
03/17/2020 0959	HPLC/DAD	-
Analyst: WW	Instrument: Agilent 1100	Water Activity (aw): -

Cannabinoid	Result (%)	Result (mg/g)	Reporting Limit (mg/g)	Result (mg/mL)	Per Unit (mg)
CBD	-	-	0.493	-	-
CBDa	0.224	2.24	0.493	-	2
CBDV	-	-	0.493	-	-
Δ9-THC	1.49	14.9	0.493	-	15
Δ8-THC	-	-	0.493	-	-
THCa	67.8	678	0.493	-	678
THCv	-	-	0.493	-	-
CBC	0.128	1.28	0.493	-	1.28
CBG	0.122	1.22	0.493	-	1.22
CBGa	1.55	15.5	0.493	-	16
CBN	-	-	0.493	-	-
TOTAL	71.3	713			713
TOTAL THC	60.9	609			609
TOTAL CBD	0.197	1.97			1.97



UNIT MASS (g): 1
"L" Not detected above RL.



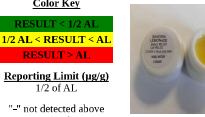
Deviations from standard operating procedure: None
Recoveries for all analyte standards: 90-110%
Replicate Uncertainties: <5% RSD, <20% RPD
Sample/Reagent Blanks: <RL for all analytes
Values for plant matter are adjusted for moisture content.
Total THC = (THCa x 0.877) + Δ8-THC
Total CBD = (CBDa x 0.877) + 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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Solvent	Result (μg/g)	Action Level (μg/g)
Acetone (67-63-1)	-	1000
Benzene (71-43-2)	2	2
n-Butane (106-97-2)	-	1000
2,2-Dimethylbutane (75-95-2)	-	60
2,3-Dimethylbutane (79-29-8)	-	60
Ethyl benzene (110-41-4)	-	430
n-Heptane (142-92-5)	-	1000
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



Color Key
RESULTS > AL
1/2 AL < RESULT < AL
RESULTS = AL
Reporting Limit (μg/g)
1/2 of 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	Neohexane	Isobutane	2-Methylpropane	1-Propanol	Propyl alcohol
2,3-Dimethylbutane	Diisopropyl	Isopropanol	2-Propanol, IPA	Tetrahydrofuran	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

Analysis Date/Time: 03/17/2020 0959 Analyst: DJ	Method: LC/MS/MS Instrument: Waters Acquity/TQD	Deviations from SOP: 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
Etoxazole (153233-91-1)	-	0.5	Reporting Limit (ug/g)
Imazali (355514-14-0)	-	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 (88671-89-0)	-	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	Dichlofies	Naled	Dibrom	Propoxur	Baygon
Ethoprophos	Prophos	Phosmet	Imidan		

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HEAVY METAL PROFILE

Analysis Date/Time: 03/17/2020 0959 Analyst: CC	Method: ICP/MS Instrument: PerkinElmer Elan 9000	Deviations from SOP: None
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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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MYCOTOXIN PROFILE

Analysis Date/Time: 03/17/2020 0959 Analyst: DJ	Method: LC/MS/MS Instrument: Waters Acquity/TQD	Deviations from SOP: None
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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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MICROBIOLOGICAL PROFILE

Analysis Date/Time: 03/17/2020 0959 Analyst: KB	Method: Hardy Diagnostics CompactDry Instrument: Thermo Incubator	Deviations from SOP: None
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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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