

SUMMARY OF ANALYSIS (SAMPLE ID: SA2020-24794)

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: OR2020-7745 Lot Number: CG01 Batch Number: 0304	Sample Type: Primary Matrix: Concentrate Mass: 2g Date Collected: 03/25/2020 Date Received: 03/25/2020 Date Completed: 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	87.7	877
Δ9-THC	1.65	17
CBGa	0.413	4
TOTAL CBD	0.085	0.85
TOTAL THC	78.6	786
TOTAL CANNABINOIDS	90	900

Terpenes (Top 5)	(%)	μg/g
β-Caryophyllene	2.473	24725
α-Humulene	1.385	13847
d-Limonene	0.495	4948
β-Myrcene	0.390	3898
Terpinolene	0.081	815
TOTAL TERPENES	5.06	50610

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



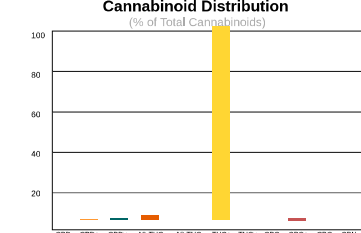
Scan the QR code to verify results.
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CERTIFICATE OF ANALYSIS (SAMPLE ID: SA2020-24794)

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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): -

Cannabinoid	Result (%)	Result (mg/g)	Reporting Limit (mg/g)	Result (mg/mL)	Per Unit (mg)
CBD	-	-	0.498	-	-
CBDA	0.0969	0.969	0.498	-	0.969
CBDv	0.167	1.67	0.498	-	1.67
Δ9-THC	1.65	16.5	0.498	-	17
Δ8-THC	-	-	0.498	-	-
THCa	87.7	877	0.498	-	877
THCv	-	-	0.498	-	-
CBC	-	-	0.498	-	-
CBG	-	-	0.498	-	-
CBGa	0.413	4.13	0.498	-	4
CBN	-	-	0.498	-	-
TOTAL	90	900	-	-	900
TOTAL THC	78.6	786	-	-	786
TOTAL CBD	0.085	0.85	-	-	0.85



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 = (CBGa 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

Terpene	Result (μg/g)	Result (%)
α-Bisabolol	157	0.0157
Camphene	179	0.0179
δ-3-Carene	-	-
β-Caryophyllene	24725	2.47
Caryophyllene oxide	-	-
p-Cymene	-	-
Eucalyptol	-	-
Geraniol	-	-
Guaiol	629	0.0629
α-Humulene	13847	1.38
Isopulegol	-	-
d-Limonene	4948	0.495
Linalol	767	0.0767
β-Myrcene	3898	0.39
cis-Nerolidol	-	-
trans-Nerolidol	-	-
α-Ocimene	-	-
β-Ocimene	-	-
α-Pinene	339	0.0339
β-Pinene	241	0.0241
α-Terpinene	-	-
γ-Terpinene	64	0.00637
Terpinolene	815	0.0815
TOTAL	50610	5.06



Abbreviations: HS = Headspace, GC - Gas Chromatography, MS = Mass Spectrometry, RL - Reporting Limit
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Reporting Limit (μg/g): 19.9

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

Solvent	Result (μg/g)	Action Level (μg/g)
Acetone (67-63-1)	-	1000
Benzene (71-43-2)	-	2
n-Butane (106-97-2)	-	1000
2,2-Dimethylbutane (75-93-2)	-	60
2,3-Dimethylbutane (79-29-8)	-	60
Ethyl benzene (100-41-4)	-	430
n-Heptane (142-82-5)	-	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 < AI
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	Phenylbenzene	2-Methylpentane	Isobexane
1,2-Dimethoxyethane	Monoglyme	Ethylene glycol	1,2-Ethanedithiol	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	Sulfidone
Dimethylsulfoxide	DMSO	Isopropyl Acetate	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: Citral Glue

PESTICIDES PROFILE

Analysis Date/Time: 03/26/2020 0926 Analyst: DJ	Method: LC/MS/MS Instrument: Waters Acquity/TQD	Deviations from SOP: None
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Pesticide	Result (µg/g)	Action Level (µg/g)	Color Key
Abamectin (71751-41-2)	-	0.5	RESULT < 1/2 AL
Azoxystrobin (131860-33-8)	-	0.5	1/2 AL < RESULT < AL
Bifenoxate* (149877-41-8)	-	0.5	RESULT > AL
Etoxazole (153233-91-1)	-	0.5	Reporting Limit (µg/g)
Imazali (355544-4-0)	-	0.5	1/2 of AL
Imidacloprid (130261-41-3)	-	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 (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
DWP	Dichlorvos	Naled	Dibrom	Propoxur	Baygon
Ethofenprox	Prophos	Phosmet	Imidan		

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Cultivar (Strain) or Sample Description: Citral Glue

HEAVY METAL PROFILE

Analysis Date/Time: 03/26/2020 0926 Analyst: CC	Method: ICP/MS Instrument: PerkinElmer Elan 9000	Deviations from SOP: None
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Heavy Metal	Result (µg/kg)	Action Level (µg/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 (µg/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: Citral Glue

MYCOTOXIN PROFILE

Analysis Date/Time: 03/26/2020 0926 Analyst: DJ	Method: LC/MS/MS Instrument: Waters Acquity/TQD	Deviations from SOP: None
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Mycotoxin	Result (µg/kg)	Action Level (µg/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	1

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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Cultivar (Strain) or Sample Description: Citral Glue

MICROBIOLOGICAL PROFILE

Analysis Date/Time: 03/26/2020 0926 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)	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	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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