

SUMMARY OF ANALYSIS (SAMPLE ID: SA2020-24218)

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: OR2020-7598 Lot Number: TENP01 Batch Number: 0306	Sample Type: Primary Matrix: Concentrate Mass: 2g Date Collected: 03/16/2020 Date Received: 03/16/2020 Date Completed: 03/19/2020
Cultivar (Strain) or Sample Description: 10th Planet			

*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 OMMAR 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	80.5	805
Δ9-THC	1.85	19
CBGa	0.199	1.99
TOTAL CBD	0.116	1.16
TOTAL THC	72.5	725
TOTAL CANNABINOIDS	82.7	827

Terpenes (Top 5)	(%)	µg/g
β-Caryophyllene	1.457	14572
β-Myrcene	0.754	7537
α-Humulene	0.661	6612
d-Limonene	0.310	3103
β-Pinene	0.024	240
TOTAL TERPENES	3.24	32400

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
Ke W Petty, Ph.D.
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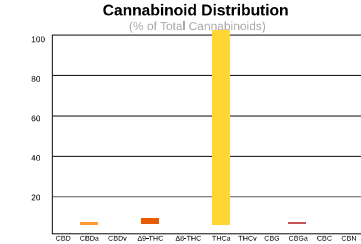
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CERTIFICATE OF ANALYSIS (SAMPLE ID: SA2020-24218)

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CANNABINOID (POTENCY) PROFILE

Cannabinoid	Result (%)	Result (mg/g)	Reporting Limit (mg/g)	Moisture Content (%): - Water Activity (aw): -	
				Result (mg/mL)	Per Unit (mg)
CBD	-	-	0.495	-	-
CBDA	0.133	1.33	0.495	-	1.33
CBDV	-	-	0.495	-	-
Δ9-THC	1.85	18.5	0.495	-	19
Δ8-THC	-	-	0.495	-	-
THCa	80.5	805	0.495	-	805
THCv	-	-	0.495	-	-
CBG	-	-	0.495	-	-
CBGa	0.199	1.99	0.495	-	1.99
CBN	-	-	0.495	-	-
TOTAL	82.7	827			827
TOTAL THC	72.5	725			725
TOTAL CBD	0.116	1.16			1.16



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

Terpene	Result (µg/g)	Result (%)
α-Bisabolol	-	-
Camphene	127	0.0127
δ-3-Carene	-	-
β-Caryophyllene	14572	1.46
Caryophyllene oxide	-	-
p-Cymene	-	-
Eucalyptol	-	-
Geraniol	-	-
Guaiol	-	-
α-Humulene	6612	0.661
Isopulegol	-	-
d-Limonene	3103	0.31
Linalol	-	-
β-Myrcene	7537	0.754
cis-Nerolidol	-	-
trans-Nerolidol	-	-
α-Ocimene	-	-
β-Ocimene	-	-
α-Pinene	210	0.021
β-Pinene	240	0.024
α-Terpinene	-	-
γ-Terpinene	-	-
Terpinolene	-	-
TOTAL	32400	3.24



Abbreviations: HS - Headspace, GC - Gas Chromatography, MS - Mass Spectrometry, RL - Reporting Limit
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*- Not detected above RL.
Reporting Limit (µg/g): 19.8

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RESIDUAL SOLVENT PROFILE

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	
n-Heptane (142-92-5)	-	1000	"-" not detected above reporting limit
n-Hexane (110-54-3)	-	60	
Isobutane (75-28-5)	-	1000	
Isopropanol (67-63-0)	-	1000	** - o,m,p-Xylene and Ethylbenzene
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	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	Oxirane	1-Pentanol	n-Amyl alcohol
2,3-Dimethylbutane	Neobexane	2-Methylpropane	Isobutane	Tetrahydrofuran	Propyl alcohol
2,3-Dimethylbutane	Diisopropyl	Isopropanol, IPA	2-Propanol, IPA	Tetramethylene sulfone	THF
N,N-Dimethylformamide	DMF	Isopropyl Acetate	Acetic acid isopropyl ester	Xylene	Sulfonane
Dimethylsulfoxide	DMSO				Dimethyl benzene

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 1108 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
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	"*" analyzed by GC/MS (all others analyzed by LC/MS/MS)
Mythobutanol (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 (2033594-90-1)	-	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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HEAVY METAL PROFILE

Analysis Date/Time: 03/17/2020 1108 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)	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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MYCOTOXIN PROFILE

Analysis Date/Time: 03/17/2020 1108 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)	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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MICROBIOLOGICAL PROFILE

Analysis Date/Time: 03/17/2020 1108 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	"-" not detected above reporting limit

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