

Arkansas Location 232 S Broadview St Greenbrier, AR 72058 (501) 679-2616

Oklahoma City Location 3680 E I-240 Service Rd Oklahoma City, OK 73135 (405) 595-0344

Tulsa Location 14720 E Admiral Pl, Ste H Tulsa, OK 74108 (918) 340-7139

SUMMARY OF ANALYSIS (SAMPLE ID: SA2020-24797)

Testing Location:	Customer ID: 1448	Order ID: OR2020-7745	Sample Type: Primary
OKC	Noble Nectar	Lot Number:	Matrix: Concentrate
3680 E. I-240 Service Rd.	8750 84th St	EJ01	Mass: 2g
Oklahoma City, OK 73135	Noble , OK 73068	Batch Number:	Date Collected: 03/25/2020
License: LAAA-4Y4X-Z72Z	License: PAAA-VJZG-KNP6	0308	Date Received: 03/25/2020
Cultivar (Strain) or Sample	Description: Early Jack		Date Completed: 03/30/2020

*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)

na, with the new OMMA rules to be effective April 1, 2020, limits on moisture are proposed at 15% and water activity at 0.65aw

Not Tested Cannabinoids (To	N/A	Not Tested	N/A
			1011
mrr en	p 3)	(%)	mg/g
THCa		84.6	846
Δ9- THC		3.55	35
CBGa		0.291	3
TOTAL CBD		0.119	1.19
TOTAL THC		77.7	777
TOTAL CANNABIN	OIDS	88.8	888
Terpenes (Top 5	<u>i)</u>	(%)	µg/g
β-Caryophyllen	2	1.658	16576
α-Humulene		0.872	8719
β-Myrcene		0.822	8220
β-Ocimene		0.604	6044
d-Limonene		0.228	2277
TOTAL TERPEN	ES	4.58	45822
Contaminants	PASS/FAIL	Sample Picture Upo	on Receipt
Heavy Metals:	PASS	THE PERSON NAMED IN	3.5 (5)
Microbiology:	PASS	The Robert Law Control	
Mycotoxins:	PASS	EARLY	43341
Pesticides:	PASS	JACK Batch (C) DS	1000000
Residual Solvents:	PASS	LOT RUSS LICKY & BANGGOOD LICKY & BANGGOOD	No. of the last
Visual Inspection:	PASS	I GAAC	



Som the QR code to verify results.

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TERPENOID PROFILE

Method: HS/GC/FID (Internal Method-002) Analysis Date/Time: 03/26/2020 0926 Deviations from SOP:

Analyst: DJ	Instrument: Agiler		
Terpene	<u>Result</u> (μg/g)	Result (%)	
α-Bisabolol	566	0.0566	
Camphene	107	0.0107	
δ-3-Carene	-	-	
β-Caryophyllene	16576	1.66	
Caryophyllene oxide	606	0.0606	I
p-Cymene	-	-	
Eucalyptol	-	-	
Geraniol	-	-	
Guaiol	537	0.0537	
α-Humulene	8719	0.872	
Isopulegol	-	-	
d-Limonene	2277	0.228	
Linalool	733	0.0733	
β-Myrcene	8220	0.822	
cis-Nerolidol	-	-	
trans-Nerolidol	-	-	
α - Ocimene	-	-	
β-Ocimene	6044	0.604	
α-Pinene	786	0.0786	
β-Pinene	418	0.0418	Ĭ
α-Terpinene	232	0.0232	
γ-Terpinene	-	-	
Terpinolene	-	-	
TOTAL	45822	4.58	

O W Zetto

Kyle W. Felling, Ph.D.



Abbreviations: HS - Headspace, GC -Gas Chromatography, MS - Mass Spectrometry, RL - Reporting Limit This information is provided as a service and makes no claims of efficacy and/or safety of this product. Results are applicable only for the sample(s) analyzed and for the specific analysis conducted. This report is for informational purposes only and should not be used to diagnose, treat, or prevent any medical-related symptoms. The statements and results herein have not been approved and/or endorsed by the FDA.

"-" Not detected above RL Reporting Limit (µg/g): 20.2

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03/30/2020



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Moisture Content (%): -

Water Activity (aw): -

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 /alues for plant matter are adjusted for moisture

Total THC = (THCa \times 0.877) + Δ 9-THC Total CBD = (CBDa \times 0.877) + CBD Percentage results are reported by mass. mg/g results are reported as mass component per mass

CERTIFICATE OF ANALYSIS (SAMPLE ID: SA2020-24797)

resung Location.	Customer ID. 1440	Order 1D. OR2020=//43	Sample Type, Filling
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CANNABINOID (POTENCY) PROFILE

Analysis Date/Time: 03/26/2020 0926 Method: HPLC/DAD Analyst: WW Instrument: Agilent 1100

Cannabinoid	Result (%)	Result (mg/g)	Reporting Limit (mg/g)	Result (mg/mL)	Per Unit (mg)	
CBD	-	-	0.505	-	-	
CBDa	0.135	1.35	0.505	-	1.35	EARLY JACK
CBDv	0.259	2.59	0.505	-	3	Sanch A0308 Lot #F.CO
Δ9 - THC	3.55	35.5	0.505	-	35	DESIGNATION OF THE PROPERTY OF
Δ8-ΤΗС	-	-	0.505	-	-	-
THCa	84.6	846	0.505	-	846	
THCv	-	-	0.505	-	-	
CBC	-	-	0.505	-	-	A STATE OF THE PARTY OF THE PAR
CBG	-	-	0.505	-	-	
CBGa	0.291	2.91	0.505	-	3	
CBN	-	-	0.505	-	-	
TOTAL	88.8	888		-	888	UNIT MASS (g): 1
TOTAL THC	77.7	777		-	777	"-" Not detected above RL.
TOTAL CRD	0.110	1 10			1.10	

Cannabinoid Distribution



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Abbreviations: UV - Ultraviolet, HPLC - High Pressure Liquid Chromatography, RL - Reporting Limit, RPD -Relative Percent Difference, RSD - Relative Standard Deviation



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

rmmyst. CC		
Solvent	Result (µg/g)	Action Level (µg/g)
Acetone (67-64-1)	-	1000
Benzene (71-43-2)		2
n-Butane (106-97-2)	-	1000
2,2-Dimethylbutane (75-83-2)		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 (107-83-5)	-	60
3-Methylpentane (96-10-0)		60
n-Pentane (109-66-0)		1000
n-Propane (74-98-6)		1000
Toluene (108-88-3)	-	180
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	Cellosolve, Ethyl glycol	Methanol	Methyl alcohol
1-Butanol	n-Butanol, Butyl	Ethyl ether	Diethyl ether, Ether	2-Methylbutane	Isopentane
	Alcohol	Ethyl acetate	EtOAc	Methylene chloride	Dichloromethane
2-Butanol	sec-Butyl alcohol	Ethyl benzene	Phenylethane	2-Methylpentane	Isohexane
2-Butanone	Methyl ethyl ketone, MEK	Ethylene glycol	1,2-Ethanediol	1-Pentanol	n-Amyl alcohol
		Ethylene oxide	Oxirane	1-Propanol	Propyl alcohol
1,2-Dimethoxyethane	Monoglyme	Isobutane	2-Methylpropane	Tetrahydrofuran	THE
2,3-Dimethylbutane	Neohexane		2-Propanol, IPA	Tetramethylene sulfone	Sulfolane
2.3-Dimethylbutane	Diisopropyl	Isopropanol			
P1 P1 P2 1 10 11	DAM.	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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PESTICIDES PROFILE

Analysis Date/Time: 03/26/2020 0926	Method: LC/MS/MS	Deviations from SOF
Analyst: DJ	Instrument: Waters Acquity/TQD	None

<u>Pesticide</u>	Result (µg/g)	Action Level (µg/g)
Abamectin (71751-41-2)	-	0.5
Azoxystrobin (131860-33-8)	-	0.5
Bifenazate* (149877-41-8)	-	0.5
Etoxazole (153233-91-1)	-	0.5
Imazalil (35554-44-0)	-	0.5
Imidacloprid (138261-41-3)	-	0.5
Malathion (121-75-5)	-	0.5
Myclobutanil (88671-89-0)	-	0.5
Permethrins* (52645-53-1)	-	0.5
Spinosad A (168316-95-8)	-	0.5
Spinosad D (168316-95-8)	-	0.5
Spiromesifen (283594-90-1)	-	0.5
Spirotetramat (203313-25-1)	-	0.5
Tebuconazole (80443-41-0)	-	0.5



analyzed by GC/MS

Abbreviations: LC - Liquid Chromatography, GC - Gas Chromatography, MS - Mass Spectrometry, RL - Reporting Limit, AL - Action Level, CAS - Chemical Abstract Services

Pesticide	Synonym(s)	Pesticide	Synonym(s)	Pesticide	Synonym(s)
Cyfluthrin	Baythroid	Myclobutanil	Systhane	Propiconazole	Tilt
DDVP	Dichlorvos	Naled	Dibrom	Propoxur	Baygon
Ethoprophos	Prophos	Phosmet	Imidan		

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HEAVY METAL PROFILE

Analysis Date/Time: 03/26/2020 0926 Method: ICP/MS Analyst: CC Instrument: PerkinElmer Elan 9000 Deviations from SOP:

Heavy Metal Arsenic (As) Cadmium (Cd) Lead (Pb) Mercury (Hg)



Action Level (μg/kg) 400 440 1000 200



Abbreviations: ICP - Inductively-Coupled Plasma, OES - Optical Emission Spectroscopy, MS - Mass Spectroscopy, RL - Reporting Limit, AL - Action Level

Color Key AL < RESULT < AL

Reporting Limit (µg/kg)

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MYCOTOXIN PROFILE

Analysis Date/Time: 03/26/2020 0926	Method: LC/MS/MS	Deviations from SOP
Analyst: DJ	Instrument: Waters Acquity/TQD	None

Mycotoxin	Result (µg/kg)	Action Level (µg/kg)	
Aflatoxin B1	-	20	
Aflatoxin B2	-	20	
Aflatoxin G1	-	20	
Aflatoxin G2	-	20	
Ochratoxin A	-	20	



Abbreviations: EG - Escherichia Coli, CFU - Colony-Forming Unit, RL - Reporting Limit, AL - Action Level

Color Key Reporting Limit (CFU/g)

"-" not detected above reporting limit

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Deviations from SOP:

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MICROBIOLOGICAL PROFILE

Action Level (CFU/g)

10000

10000

Analysis Date/Time: 03/26/2020 0926 Method: Hardy Diagnostics CompactDry Analyst: KB Instrument: Thermo Incubator

Result (CFU/g)
70
Absent
Absent
Absent
Absent



None

Abbreviations: EC - Escherichia Coli, CFU - Colony-Forming Unit, RL - Reporting Limit, AL - Action Level, NT - Not Tested

Color Key AL < RESULT < AL Reporting Limit (CFU/g)

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