



CERTIFICATE OF ANALYSIS

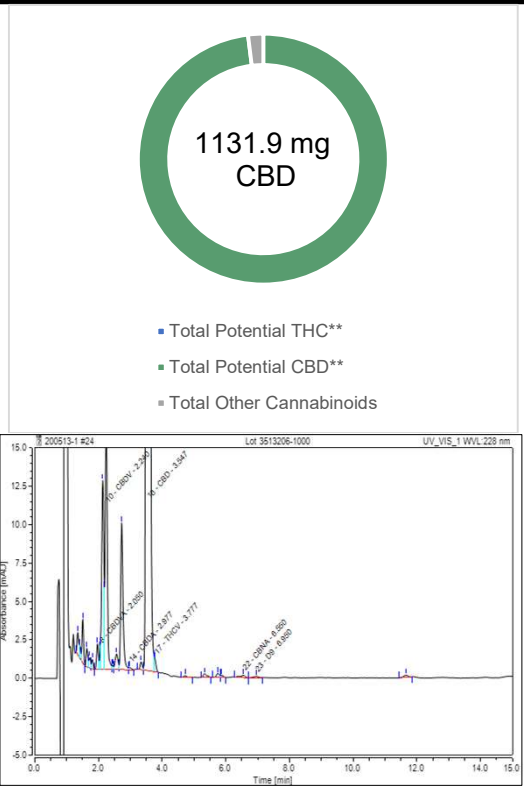
Prepared for: Tessera Naturals
2815 Zambia Dr.
Cedar Park, TX 78613

PRODUCT: Tessera Naturals 1000 mg

Batch ID: 3513206-1000	Test ID: CANN_2
Reported: 15-May-20	Method: HPLC/UV-DAD by TM-001
Type: Oil Based Tincture	Test: Potency-16 Cannabinoid Profile

CANNABINOID PROFILE

Compound	Result (% w/w)	Result (mg/g)	Result (mg)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.00	0.00	0.0
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.00	0.00	0.0
Cannabidiolic acid (CBDA)	0.00	0.00	0.0
Cannabidiol (CBD)	4.10	40.95	1131.9
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.00	0.00	0.0
Cannabinolic Acid (CBNA)	BQL	BQL	BQL
Cannabinol (CBN)	0.00	0.00	0.0
Cannabigerolic acid (CBGA)	0.00	0.00	0.0
Cannabigerol (CBG)	BQL	BQL	BQL
Tetrahydrocannabivarinic Acid (THCVA)	0.00	0.00	0.0
Tetrahydrocannabivarin (THCV)	BQL	BQL	BQL
Cannabidivarinic Acid (CBDVA)	0.00	0.00	0.0
Cannabidivarin (CBDV)	0.08	0.82	22.7
Cannabichromenic Acid (CBCA)	0.00	0.00	0.0
Cannabichromene (CBC)	0.00	0.00	0.0
Cannabicyclol (CBL)	0.00	0.00	0.0
Total Cannabinoids*	4.177	41.77	1154.6
Total Potential THC**	0.00	0.00	0.0
Total Potential CBD**	4.10	40.95	1131.9
Total Other Cannabinoids	0.08	0.82	22.7



Total Potential THC**	0.00	0.00	0.0
Total Potential CBD**	4.10	40.95	1131.9
Total Other Cannabinoids	0.08	0.82	22.7

Notes
LOQ=0.005% or 0.05mg/g
of servings = 30, Calculated amt. per container = 27.6 grams

*Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.
** Total Potential THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step.
Total THC= THC + (THCa*(0.877)) and Total CBD = CBD + (CBDa*(0.877))
%=(w/w) = Percent (Weight of Analyte/Weight of Product)

FINAL APPROVAL

 Dale Smith
15-May-20
1:22 PM

Testing results are based solely on the samples provided to ZOSI Analytical, LLC, in the condition it was received. ZOSI Analytical, LLC warrants all analytical work is conducted professionally in accordance best laboratory practices. Data was generated using comparison to certified reference materials. This report may not be reproduced, except in full, without the written approval of ZOSI Analytical, LLC. ISO 17025 Accreditation in process

PRODUCT NAME: THC-Free Phytocannabinoid-Rich Hemp Oil

PRODUCT CODE: NO-10kg-BULK

LOT NUMBER: JP121019B3 (Sales Order# LAFO-030-GK-4, Total of 10,300 g cannabinoids, Total of 12,487.9 g Oil)

OIL BATCH NUMBER: CONO19-105-108

DATE OF MANUFACTURE: 12Sep2019

Expiration date is 24 months under sealed conditions.

ACTIVE INGREDIENT: THC-Free Phytocannabinoid-Rich Hemp Oil

INACTIVE INGREDIENTS: N/A

Attributes	Acceptance Criteria	Results	Test Method
Appearance	Viscous Amber Oil Possible Crystal Formation	Conforms	QCU002
Odor	Characteristic	Conforms	QCU002
Color	Dark Amber	Conforms	QCU002
Dissolution	Not cloudy or turbid, characteristic color	Conforms	QCU002
Cannabinoid Content	80% total Phytocannabinoids, THC - report results	82.48% total Phytocannabinoids, THC Not Detected	QCU001
Microbial Testing	Total Aerobic Count <2000 CFU/g Total Yeast & Mold <200 CFU/g	Conforms	USP<2021>

Package	Acceptance Criteria	Results
Primary Package	Container dedusted and wiped clean. Container caps screwed on tight	Conforms
Secondary Package	Carton Sturdy and clean. Sufficient cushion material exists. Carton taped on all sides	Conforms

Note: When sampling, manufacturing, or formulating with this oil, the oil MUST first be heated and liquefied at 70-75°C and mixed thoroughly. Attempting to sample the oil when it is in a semi-solid state will not result in accurate analytical results.

Storage: Room Temperature, Protect from Light

Prepared by: 

Reviewed by: 

This product is not intended to diagnose, treat, cure, or prevent any disease and has not been evaluated by the FDA.

TYPE: Phytocannabinoid-Rich Hemp Oil/ THC-free
BATCH No: CONO19-105-108
Date of Manufacture: 12Sep2019

POTENCY RESULTS:

Cannabinoid	Wt. (%)	(mg/g)
CBD	82.477	824.77
CBG	< 0.001	< 0.01
CBN	< 0.001	< 0.01
THC	< 0.001	< 0.01
CBC	< 0.001	< 0.01
THC-A	< 0.001	< 0.01
CBD-A	< 0.002	< 0.02
CBDV	1.923	19.23
THCV	< 0.001	< 0.01
MAX THC	< 0.001	< 0.01
MAX CBD	82.477	824.77
TOTAL ACTIVE	84.400	844.00

(HPLC by Green Scientific, 36753)

Batch Release

Chemist: Zosha McKinney

Zosha McKinney 23Sep2019

Manager: Robert Haynes

Robert Haynes 23Sep, 2019

COPY
Zm 23Sep2019

TYPE: Phytocannabinoid-Rich Hemp Oil/ THC-free

BATCH No: CONO19-105-108

Date of Manufacture: 12Sep2019

TERPENES:

	Wt. (%)		Wt. (%)
(-)- α -Bisabolol	0.03191	Linalool	0.04588
Camphene	<0.01	β -Myrcene	<0.01
(1S)-(+)-3-Carene	<0.01	(E)- β -Ocimene	<0.01
β -Caryophyllene	0.29471	(Z)- β -Ocimene	<0.01
p-Cymene	<0.01	α -Pinene	<0.01
Eucalyptol	<0.01	(-)- β -Pinene	<0.01
α -Humulene	0.01996	α -Terpinene	<0.01
(-)-Isopulegol	<0.01	γ -Terpinene	<0.01
R-(+)-Limonene	<0.01	Terpinolene	0.01378
Total Terpenes:	0.40624 % Wt		

(AHP, CA/BCC)

HEAVY METALS & GLUTEN:

Cadmium	< 0.001 ppm
Lead	0.009 ppm
Arsenic	0.018 ppm
Mercury	< 0.001 ppm
Gluten	ND* < 5 ppm

(ICP/MS)

MYCOTOXINS:

Aflatoxin	< 10 ppb	Deoxynivalenol	< 10 ppb
Aflatoxin B1	< 2 ppb	T-2 Toxin	< 10 ppb
Aflatoxin B2	< 2 ppb	HT-2 Toxin	< 0.1 ppm
Aflatoxin G1	< 2 ppb	Fumonisin B1	< 0.1 ppm
Aflatoxin G2	< 2 ppb	Fumonisin B2	< 0.1 ppm
Aflatoxin M1	< 2 ppb	Ochratoxin A	< 0.1 ppm
Aflatoxin M2	< 2 ppb	Zearalenone	< 0.1 ppm

(UHPLC.MS/MS)

MICROBIAL:

Standard plate count	< 10 CFU/g
Total coliforms	< 10 CFU/g
Yeast & mold	< 10 CFU/g
<i>E. coli</i>	Negative/g
<i>Salmonella</i>	Negative/g
<i>Staphylococcus aureus</i>	Negative/g
<i>Pseudomonas aeruginosa</i>	Negative/g
Total Coliforms	< 10 CFU/g

RESIDUAL SOLVENTS:

2-Methoxyethanol	ND*
2-Ethoxyethanol	ND*
N,N-Dimethylformamide	ND*
N,N-Dimethylacetamide	ND*
Dimethyl Sulfoxide	ND*
Ethylene Glycol	ND*
N-Methylpyrrolidone	ND*
Formamide	781 ppm
Sulfolane	ND*
Ethanol	102 ppm
Acetic Acid	ND*
Formic Acid	ND*

(USP <467>, GC)

COPY
ZM 23 Sep 2019

CHEMICAL:	
Melting Point	60.9 °C
Solubility	Insoluble in water, soluble in acetone, ethanol, and glycerol @ 25 °C
Elemental Impurities	Compliant with USP <233>
Added compounds	No added compounds
Moisture (Karl Fischer)	0.48%
PHYSICAL:	
Bulk Density	1.0007 g/mL
ORGANOLEPTIC:	
Appearance	Waxy paste
Color	Amber/gold
Odor	Herbaceous

Pesticides:

Abamectin	ND*	Cypermethrin	ND*	Fipronil	ND*	Propoxur	ND*
Aldicarb	ND*	Cyproconazole	ND*	Fipronil desulfinyl	ND*	Pyrethrum	ND*
Aldicarb sulfone	ND*	Cyprodinil	ND*	Fipronil sulfone	ND*	Spinetoram	ND*
Aldicarb sulfoxide	ND*	Dichlorvos	ND*	Imazalil	ND*	Spinosad	ND*
Azoxystrobin	ND*	Diclobutrazol	ND*	Imidacloprid	ND*	Spirodiclofen	ND*
Bifenazate	ND*	Dipropetryn	ND*	Malathion	ND*	Spiromesifen	ND*
Bifenthrin	ND*	Disulfoton	ND*	Methiocarb	ND*	Spiromesifen enol	ND*
Carbaryl	ND*	Endosulfan I	ND*	Methiocarb sulfone	ND*	Spirotetramat	ND*
Carbofuran	ND*	Endosulfan II	ND*	Methiocarb sulfoxide	ND*	Spiroxamine	ND*
Carbofuran-3-hydroxy-	ND*	Endosulfan sulfate	ND*	Methomyl	ND*	Tebuconazole	ND*
Chlorantraniliprole	ND*	Epoxiconazole	ND*	Metolachlor	ND*	Thiabendazole	ND*
Chlordane, cis-	ND*	Ethiofencarb	ND*	Mevinphos	ND*	Thiabendazole-5-hydroxy-	ND*
Chlorfenapyr	ND*	Etofenprox	ND*	Myclobutanil	ND*	Thiacloprid	ND*
Chlorpyrifos	ND*	Fenoxycarb	ND*	Naled	ND*	Trifloxystrobin	ND*
Coumaphos	ND*	Fenpropathrin	ND*	Paclobutrazol	ND*		
Cyfluthrin	ND*	Fenvalerate/Esfenvalerate	ND*	Permethrin	ND*		

(GC/MS/MS)

* ND - Not Detected

Batch Release

Chemist: Zosha McKinney

Manager: Robert Haynes

Zosha McKinney 23 Sep 2019
Robert Haynes 27 Sep 2019

COPY

Zm 23 Sep 2019