

CERTIFICATE OF INTERNAL ANALYSIS

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 25 Sep 2019

CERTIFICATE OF INTERNAL ANALYSIS

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 desulfanyl	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*		


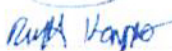
(GC/MS/MS)

* ND - Not Detected

Batch Release

Chemist: Zosha McKinney

Manager: Robert Haynes

 23 Sep 2019
 27 Sep 2019

COPY

Zm 23 Sep 2019

CERTIFICATE OF INTERNAL ANALYSIS

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

 23Sep2019

Manager: Robert Haynes

 27Sep2019

COPY
Zm 23Sep2019