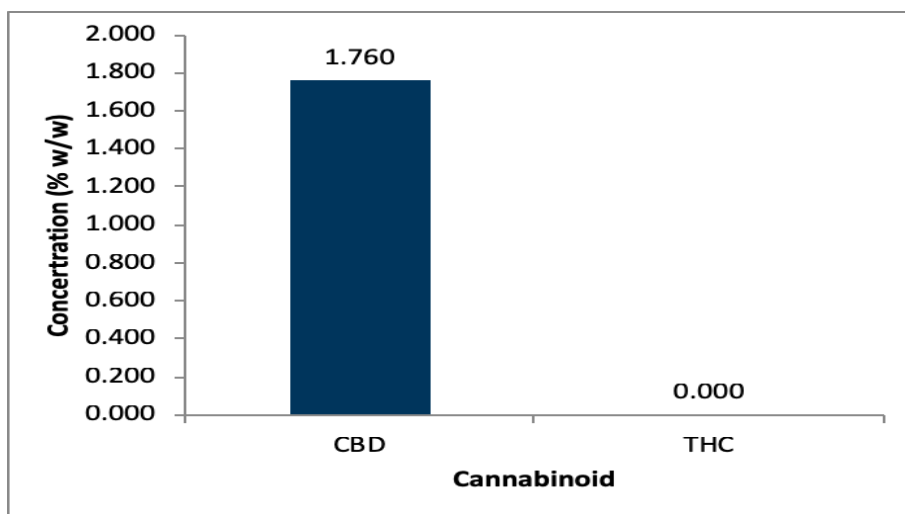


Sample ID: THC Free/031401F  
Client ID: On Duty CBD  
Matrix: MCT oil  
Dilution: 500mg/30mL

Received Date: 2019-04-01  
Processed Date: 2019-04-01  
Run Date: 2019-04-01

The provided sample was analyzed via Gas Chromatography-Mass Spectrometry against certified reference standards for all reported analytes.

Analyte	Concentration % (w/w)
CBD	1.76
THC	ND





# Certificate of Analysis

031401F  
THC FREE  
Matrix: N/A

## On Duty CBD

145 Graham Ave ASTeCC A217  
Lexington  
KY, USA 40506  
8593102664  
jacob@kyhempcorp.com



METRC/Biotrack#N/A **Harvest/Lot ID: 20190314**  
Batch#: 031401F, Sample Size: 10 -grams  
Ordered: 03/14/19 Sampled:03/13/19  
Completed: 03/25/19 Expires: 03/25/20  
Sampling Method: SOP Client Method

Pesticides	LOQ	Action Level	Result	Units	Type
Propiconazole	0.01	0.4	ND	ppm	Triazole Fungicide
Clofentezine	0.01	0.2	ND	ppm	Tetrazine Acaricide
Spinosad (Spinosyn A)	0.01	0.2	ND	ppm	Insecticide
Prallethrin	0.05	0.2	ND	ppm	Synthetic pyrethroid Insecticide
Trifloxystrobin	0.01	0.2	ND	ppm	Strobilurin Fungicide
Piperonyl butoxide	0.01	3	ND	ppm	Cyclic aromatic; Performance enhancer, Synergist
Chlorpyrifos	0.01	0.2	ND	ppm	Organophosphate Insecticide
Hexythiazox	0.01	1	ND	ppm	Carboxamide Acaricide
Etoxazole	0.01	0.2	ND	ppm	Diphenyl oxazoline Acaricide
Spiromesifen	0.01	0.2	ND	ppm	Tetronic acid Insecticide
Pyrethrins (Pyrethrin I)	0.01	1	ND	ppm	Insecticide
Fenpyroximate	0.01	0.4	ND	ppm	Pyrazolium Acaricide, Insecticide
Pyridaben	0.01	0.2	ND	ppm	Pyridazinone Insecticide, Acaricide
Permethrins	0.05	0.2	ND	ppm	Pyrethroid Insecticide
Abamectin B1a	0.02	0.5	ND	ppm	Insecticide
Etofenprox	0.01	0.4	ND	ppm	Pyrethroid Insecticide
Bifenthrin	0.01	0.2	ND	ppm	Acaricide, Insecticide
Fludioxonil	0.01	0.4	ND	ppm	Phenylpyrrole Fungicide
Fipronil	0.02	0.4	ND	ppm	Phenylpyrazole Insecticide
Cypermethrin	0.02	1	ND	ppm	Pyrethroid Insecticide, Veterinary substance
Mevinphos	0.01	0.1	ND	ppm	Organophosphate Insecticide, Acaricide
Dimethomorph	0.01	0.1	ND	ppm	Morpholine Fungicide
Fenhexamid	0.01	0.1	ND	ppm	Hydroxylanilide Fungicide
Coumaphos	0.01	0.2	ND	ppm	Insecticide
Spinosad (Spinosyn D)	0.01	0.2	ND	ppm	Insecticide



4131 SW 47th AVENUE SUITE  
1408  
DAVIE, FL 33314  
1-954-368-7664  
info@eviolabsfl.com

Jorge Segredo  
Lab Director

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Sampling Method: SOP Client Method

### Residual solvent

Residual solvent	Action Level(ppm)	Pass/Fail	Results(ppm)
Hexanes (2,3-dimethylbutane)	290	Pass	ND
1,4-Dioxane	380	Pass	ND
Pentanes (iso-pentane)	5000	Pass	ND
Pentanes (neo-pentane)	5000	Pass	ND
Butanes (iso-butane)	5000	Pass	ND
2-Butanol	5000	Pass	ND
2-Ethoxyethanol	160	Pass	ND
2-Propanol	5000	Pass	ND
Acetone	5000	Pass	ND
Acetonitrile	410	Pass	ND
Benzene	2	Pass	ND
Butanes (n-butane)	5000	Pass	ND
Cyclohexane	3880	Pass	ND
Dichloromethane	600	Pass	ND
Hexanes (2,2-dimethylbutane)	290	Pass	ND
Xylenes-O (1,2-dimethylbenzene)	2170	Pass	ND
Xylenes-M (1,3-dimethylbenzene)	2170	Pass	ND
Xylenes-P (1,4-dimethylbenzene)	2170	Pass	ND
Ethanol	5000	Pass	ND
Ethyl acetate	5000	Pass	ND
Ethylbenzene	2170	Pass	ND
Ethyl ether	5000	Pass	ND
Ethylene Oxide	50	Pass	ND
Heptane	5000	Pass	ND
n-Hexane	290	Pass	ND
Isopropyl acetate	5000	Pass	ND
Methanol	3000	Pass	ND
Hexanes (2-methylpentane)	290	Pass	ND
Hexanes (3-methylpentane)	290	Pass	ND
Pentanes (n-pentane)	5000	Pass	ND
Propane	5000	Pass	ND
Tetrahydrofuran	720	Pass	ND
Toluene	1068	Pass	ND
Xylenes	2170	Pass	ND

### Action Level(ppm)

### Pass/Fail

### Results(ppm)



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Matrix: N/A

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Sampling Method: SOP Client Method

### Cannabinoid Profile Test Result-Analysis Method :SOP.T.40.020, SOP.T.30.050

Reagent LOT ID  
032119.R03  
032019.R13  
032019.R11

Dilution  
10

### Analytical Batch:DA002277

Consumables Id  
18G02C0-155  
U1AX005180181025  
850C4-850AK  
840C6-840H

Full spectrum cannabinoid analysis utilizing High Performance Liquid Chromatography with UV detection (HPLC-UV). (Method: SOP.T.30.050 for sample prep and Shimadzu High Sensitivity Method SOP.T.40.020 for analysis. LOQ for all cannabinoids is 1 mg/L).

### Mycotoxin Analysis-Analysis Method :SOP.T.30.065, SOP.T.40.065

#### Analyte

Aflatoxin G2  
Aflatoxin G1  
Aflatoxin B2  
Aflatoxin B1  
Ochratoxin A+

#### Results

ND  
ND  
ND  
ND  
ND

### Analytical Batch:DA002292

#### Action Level

0.02  
0.02  
0.02  
0.02  
0.02

Aflatoxins B1, B2, G1, G2, and Ochratoxins A testing using LC-MS. (Method: SOP.T.30.065 for Sample Preparation and SOP.T.40.065 Procedure for Mycotoxins Quantification Using LCMS. LOQ 1.0 ppb). Total Aflatoxins (Aflatoxin B1, B2, G1, G2) must be <20µg/Kg. Ochratoxins must be <20µg/Kg.

### Micro Analysis-Analysis method :SOP.T.40.043

#### Pathogens

Aspergillus\_terreus\_1J2  
Aspergillus\_niger  
Aspergillus\_fumigatus  
Aspergillus\_flavus  
Salmonella\_specific\_gene  
Escherichia\_coli\_Shigella\_spp\_

#### Results

not present in 1 gram.  
not present in 1 gram.  
not present in 1 gram.  
not present in 1 gram.  
not present in 1 gram.  
not present in 1 gram.

Microbiological testing for Fungal and Bacterial Identification via Polymerase Chain Reaction (PCR) method consisting of sample DNA amplified via tandem Polymerase Chain Reaction (PCR) as a crude lysate which avoids purification. (Method SOP.T.40.043) If a pathogenic Escherichia Coli, Salmonella, Aspergillus fumigatus, Aspergillus flavus, Aspergillus niger, or Aspergillus terreus is detected in 1g of a sample, the sample fails the microbiological-impurity testing.



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METRC/Biotrack#N/A **Harvest/Lot ID: 20190314**  
Batch#: 031401F, Sample Size: 10 -grams  
Ordered: 03/14/19 Sampled:03/13/19  
Completed: 03/25/19 Expires: 03/25/20  
Sampling Method: SOP Client Method

### Pesticide Analysis-Analysis Method:SOP.T.30.065, SOP.T.40.065

Reagent LOT/ID Dilution  
032019.R15 1

### Analytical Batch :DA002288

Consumables ID  
18G02C0-155  
U1AX005180181025

Pesticide screen is performed using LC-MS which can screen down to below single digit ppb concentrations for regulated Pesticides. Currently we analyze for 57 Pesticides. (Method: SOP.T.30.065 Sample Preparation for Pesticides Analysis via LCMSMS and SOP.T40.065 Procedure for Pesticide Quantification Using LCMS).

### Heavy Metals Analysis-Analysis-Method:SOP.T.40.050, SOP.T.30.052

Reagent LOT/ID Dilution  
032119.R02 50  
031819.R20  
011519.01  
021319.R15  
031219.R17  
030619.01

### Analytical Batch: DA002279

Consumables ID

Heavy Metals screening is performed using ICP-MS (Inductively Coupled Plasma - Mass Spectrometer) which can screen down to below single digit ppb concentrations for regulated heavy metals using Method SOP.T.30.052 Sample Preparation for Heavy Metals Analysis via ICP-MS and SOP.T.40.050 Heavy Metals Analysis via ICP-MS.

Metal	Result	Action-Level
Arsenic	ND	1.500
Cadmium	ND	0.500
Lead	ND	0.500
Mercury	ND	3

Abbreviation:ppm=Parts Per Million

### Residual SolventsAnalysis Method:SOP.T.40.032

### Analytical Batch :DA002284

Residual solvents screening is performed using GC-MS which can detect below single digit ppm concentrations. Currently we analyze for 34 Residual solvents. (Method: SOP.T.30.042 Residual Solvents Analysis via GC-MS).



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