# IN THE UNITED STATES DISTRICT COURT FOR THE SOUTHERN DISTRICT OF IOWA CENTRAL DIVISION

HW PREMIUM CBD, LLC,
AJ's HEALTH AND WELLNESS d/b/a
AMERICAN SHAMAN, E. KRIEGER
LAND, LLC d/b/a GREENE GOODS
MARKET & GREENHOUSES, GREEN
ONYX INC. d/b/a YOUR CBD STORE,
BEYOND CBD, LLC d/b/a BEYOND CBD,
CAMPBELL'S NUTRITION CENTERS,
INC., TCI ENTERPRISE, INC. d/b/a SKY
HIGH, ICANNA, LLC, YOUR CBD STORES
FRANCHISING LLC

Case No. 4:24-cv-00210-SHL-HCA

Plaintiffs,

v.

GOVERNOR KIM REYNOLDS in her official capacity, DIRECTOR OF IOWA
DEPARTMENT OF HEALTH AND HUMAN
SERVICES KELLY GARCIA in her official capacity,
COMMISSIONER OF IOWA DEPARTMENT OF
PUBLIC SAFETY STEPHAN BAYES in his official capacity, and IOWA SECRETARY OF AGRICULTURE
MIKE NAIG in his official capacity.

Defendants.

## AMENDED AND SUPPLEMENTAL DECLARATION OF LACIE NAVIN

- I, Lacie Navin, do hereby attest as follows:
- 1. I am over the age of majority, am competent to testify, and I have personal knowledge of the matters addressed in this declaration.
- 2. This Declaration is submitted in support of Plaintiffs' Motion for Temporary Restraining Order and Preliminary Injunction.

- 3. I am the owner of two separate stores that sell products that Iowa has defined as "consumable hemp products," and have operated as co-owner of two additional stores within Iowa as well.
- 4. I operate each one of my stores as a franchise of Sunmed<sup>TM</sup> Your CBD Store, which is a national franchise that specializes in cannabidiol ("CBD") products. My first store that I opened in 2019 is located in West Des Moines, Iowa. My second store that I opened is located in Ankeny, Iowa. The two stores that I own a fifty percent (50%) interest in are also Sunmed<sup>TM</sup> franchises and are both located in Iowa.
- 5. The stores I operate are both licensed and registered with the Iowa Department of Health and Human Services ("DHHS"), and the consumable hemp products sold in those stores are currently approved by DHHS.
- 6. In December of 2019, I was contacted by an undercover police officer who purchased some of my product from my Sunmed<sup>TM</sup> Ankeny, Iowa store. I ultimately was arrested and charged with multiple felonies for allegations that my products were "marijuana prepared," which was a phrase that I understand Iowa did not define. As part of the investigation, my bank accounts were frozen and I was forced to shut down the entirety of my two stores that existed for the entirety of the investigation and court proceeding, which lasted nearly two (2) years. Ultimately, all charges against me were voluntarily dismissed by the State of Iowa, but the damage to me financially was substantial as the State did not return any of the money that was frozen, and I had lost revenue for the two-year period that I was shut down.
- 7. The two-year period of litigation was extremely detrimental to me, my business, and my family that I was trying to financially support. Since opening my businesses in 2019, I have followed every law local, state, and federal concerning the products that I offer for sale

in my stores.

- 8. I have owned my businesses throughout the transition in Iowa from the time the Agriculture Farm Improvement Act (the "2018 Farm Bill") was passed to allow for the industrialization and possession of hemp and hemp-derived products, to the first Iowa bill that was passed to mirror the 2018 Farm Bill in 2019 (the "Iowa Hemp Act"), and then subsequently the second Iowa hemp bill passed in 2020 that provided for the legalization and regulation of "consumable hemp products" (H.F. 2581).
- 9. It is my understanding that there are very few Iowa licensed hemp growers within the State of Iowa.

# My Store Products Sold Within Iowa

- 10. I entered into a Franchise Agreement for my stores on October 5, 2021 with Your CBD Stores Franchising, LLC. The Franchising Agreement has an initial term of five (5) years, with option to renew thereafter.
- 11. Because of the Franchise Agreement, I am restricted on what products I can offer in my stores and predominantly carry Sunmed<sup>TM</sup> products.
- 12. Sunmed™ offers a variety of products that are sold within my stores. In addition, I am one of very few stores that sells an Iowa-derived CBD tincture product that is manufactured by a local Iowa grower.
- 13. The majority of the product line that I sell in my Iowa stores are Sunmed<sup>TM</sup> products. Sunmed<sup>TM</sup> produces approximately sixty-four (64) products that are lab tested and third-party approved for quality assurance purposes. Each product has its own lab report published on the Sunmed<sup>TM</sup> website, available for any customer who wishes to see specific information about the safety of the product, as well as THC content.

- 14. For example, the full spectrum neuro water soluble CBD gummies sold in a container that contains 30 gummies, carry a .0145% total THC per serving (1 gummy) and .4591% total CBD per serving. The lab report prepared by ActLab is published on the website, a copy of which is attached hereto as Exhibit "1" to my Declaration and is a business record that I maintain and offer to my customers upon request in accordance with my ordinary course of business.
- 15. An additional example is our 1800 mg water soluble CBD tincture. That container has 19.282 mg of THC per package, but only .643 mg of THC per unit. Because of the size of the container, it is my understanding that this product would violate the laws set to take effect in Iowa on July 1, 2024 (the "Amendments"). A copy of the tincture lab report is attached hereto as Exhibit "2" to my Declaration and is a business record that I maintain and offer to my customers upon request in accordance with my ordinary course of business.
- 16. I also am one of the very few licensed consumable hemp retailers in Iowa that is authorized to sell raw hemp flower. A copy of the Certificate of Analysis that I carry in my store in order to sell this flower I receive from Sunmed is attached hereto as Exhibit "3" to my Declaration and is a business record that I maintain and offer to my customers upon request in accordance with my ordinary course of business. The Exhibit "3" I previously submitted was submitted in error, as it is a tincture product, and should be superseded and replaced with this Exhibit "3" as the accurate product described here.
- 17. All of the products I sell in my stores are approved by the Iowa DHHS under my consumable hemp retailer license, a copy of which is attached as Exhibit "4" to my Declaration and is a business record that I maintain and post for public view within my stores.

# Impact on My Business and Irreparable Harm

18. The Amendments were signed into law by Defendant Reynolds on May 17, 2024

- through H.F. 2605 and H.F. 2641 and are set to take effect a mere six weeks later on July 1, 2024.
- 19. On February 14, 2024, I signed a five-year commercial lease for my 1,400 square foot business in Ankeny, Iowa, with payments set to commence in May 2024.
- 20. If the Amendments go into effect on July 1, 2024, as planned, I have conservatively estimated that approximately 75% of my current product line that is currently offered for sale *legally* in Iowa will not comply with the Iowa Amendments.
- 21. The products that will be illegalized are largely due to the serving size and container size requirements that are set forth in HF 2605 definition of a "consumable hemp product" in which "the product's maximum total tetrahydrocannabinol ("THC") concentration is less than or equal to the lesser of the following: a) three-tenths of one percent on a dry weight basis; b) four milligrams per serving and ten milligrams per container on a dry weight basis."
- 22. The phrases "per serving" and "per container" are vague as there has been no definition or regulation issued that defines what "serving" or "container" means in this context, as my store sells a variety of products that are both liquid and solid with a variety of different serving sizes. The lack of regulations or guidance on these two words also contribute to my concerns that the products I currently have in inventory and future products that I am required to purchase per my Franchise Agreement will not be in compliance with the new Amendments.
- 23. In addition, within the Amendments in ICA § 204.14A (Criminal offense-inhalation), a person "shall not manufacture, produce, distribute, market, or sell a *synthetic consumable hemp product*, as defined by rules adopted by the department of health and human services."
- 24. A synthetic consumable hemp product is not defined in the Amendments, and the rules have not been finalized by the department of health and human services, leading to a large

amount of confusion as to what products fall within the definition of a synthetic consumable hemp product.

- 25. The products that will be illegalized in my stores as a result of the Amendments (*excluding* any potential products that are considered "synthetic") will be devastating, as they make up at least 70% or more of my monthly sales in each store.
- 26. The removal of these products from the Iowa marketplace will be detrimental to the Iowa consumers and public. Both of my stores service at *least* in excess of 12,000 customers.
- 27. The removal of these products will make the continuation of my business impossible, as the Sunmed<sup>TM</sup> brand currently only carries approximately 40 products that would be considered compliant with the Amendments. It is my understanding that Sunmed<sup>TM</sup> will not create separate products that are compliant with only Iowa's law, as doing so for potentially all 50 states would be incredibly burdensome and costly to comply with.
- 28. Because of the Franchise Agreement, I am restricted on what products I can offer in my stores and am required to purchase a minimum inventory of Sunflora products that are manufactured by Sunmed<sup>TM</sup> on a quarterly basis.
- 29. As a result, the Amendments will effectively prohibit me from purchasing the Sunflora products that I am required to purchase on a quarterly basis, directly interfering with my ability to comply with my Franchise Agreement as I understand it will be illegal for me to purchase the Sunflora products in Iowa under the Amendments.
- 30. Because of the effective date of the Amendments being a mere six weeks after the Governor signed them into law, coupled with the fact the industry stakeholders like myself do not have final regulations to fully understand how the Department of Health & Human Services and

Department of Public Safety intend to enforce the Amendments, we are left not knowing what to do with the substantial amount of product currently on our shelves.

- 31. The risk of criminal enforcement as a result of the Iowa Amendments is incredibly concerning, especially in light of my prior experience and exceptional financial harm that was inflicted on me as a result of a criminal investigation and shutting down of my business as a result. I have a young family and cannot risk criminal enforcement and financial harm as a result of the State pursuing enforcement of the Amendments.
  - 32. I declare under penalty of perjury that the foregoing is true and correct. Executed this 29<sup>th</sup> day of June 2024.

DocuSigned by:

LôDFAC86C186C44B...

Lacie Navin



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SunFlora Inc. Order #: 84654 Retail Batch #: 112523FSNG

## **CERTIFICATE OF ANALYSIS**

ISO/IEC: 17025:2017 Accreditation #:

103104

License #: CMTL-0004

## **Batch Information**

# **Order Information**

Order #: 84654

Order Name: Neuro Gummy Retail Batch #: 112523FSNG Received: 12/01/2023 13:27:49 Complete: 12/08/2023 10:45:26 Create Date: Exp. Date: Size: 0 Total Qty.: 0 Matrix: Gummy Pickup Weight: N/A

CANNABINOID PROFILE

TESTED

LABEL CLAIM
NOT

**APPLICABLE** 

PASS

Sun Med Sour Guava

RESIDUAL SOLVENTS

**PASS** 

AGRICULTURAL AGENTS
PASS

HEAVY METAL ANALYSIS

**PASS** 

TERPENES TOTAL

**TESTED** 

MOISTURE ANALYSIS

**NOT TESTED** 

WATER ACTIVITY

**TESTED** 

0.0145 %

Total THC

0.4591 %

Total CBD

FILTH & FOREIGN MATERIAL ANALYSIS

**PASS** 

HOMOGENEITY

**NOT TESTED** 

MYCOTOXIN ANALYSIS

PASS

0.7966 %

Total Cannabinoids

Total Callilabiliola

Diana Asensio, M.S.

Lab Director

Man -

ACT Laboratories Florida 4001 SW 47th Avenue, Suite 208 Davie, FL 33314 (954) 514-9343







## **CERTIFICATE OF ANALYSIS**

ISO/IEC: 17025:2017 Accreditation #: 103104

License #: CMTL-0004

## Sample Prep

## Sample Analysis

**Tech:** 4090 **SOP:** 418

HPLC-DAD

Date/Time: 12/05/2023 08:56:09

**Tech:** 1012 Batch Number: 61912

**CANNABINOID PROFILE** 

**SOP:** 417

Batch Date: 12/01/2023 12:21:23 Final Weight: 1.0054 g Volume: 10 ml

0.728 mg 0.728 mg THC Per Unit THC Per Pkg

0.4591 % Total CBD

0.0145 %

Total THC

23.047 mg CBD Per Unit

23.047 mg CBD Per Pkg

0.7966 %

39.990 mg

39.990 mg

**Total Cannabinoids** 

Cannabinoids Per Unit

Cannabinoids Per Pkg

# **Cannabinoid Potency**

ANALYTE	LOD/LOQ (mg/g)	DIL.	WEIGHT %	MG/G	MG/UNIT	MG/PACKAGE	LABEL CLAIM (mg)	% LABEL VAR.
СВС	0.004/0.013	1	0.0067	0.067	0.336	0.336		
CBD	0.004/0.013	1	0.4591	4.591	23.047	23.047		
CBDA	0.004/0.013	1	ND	ND	ND	ND		
CBDV	0.004/0.013	1	0.0033	0.033	0.166	0.166		
CBG	0.004/0.013	1	0.2927	2.927	14.694	14.694		
CBGA	0.004/0.013	1	ND	ND	ND	ND		
CBN	0.004/0.013	1	0.0037	0.037	0.186	0.186		
d8-THC	0.004/0.013	1	ND	ND	ND	ND		
d9-THC	0.004/0.013	1	0.0145	0.145	0.728	0.728		
THCA	0.004/0.013	1	ND	ND	ND	ND		
THCV	0.004/0.013	1	ND	ND	ND	ND		

## **Additional Cannabinoids**

ANALYTE	LOD/LOQ (mg/g)	DIL.	WEIGHT %	MG/G	MG/UNIT	MG/PACKAGE	LABEL CLAIM (mg)	% LABEL VAR.
CBDVA	0.004/0.013	1	ND	ND	ND	ND		
CBL	0.004/0.013	1	<loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td></td><td></td></loq<></td></loq<></td></loq<></td></loq<>	<loq< td=""><td><loq< td=""><td><loq< td=""><td></td><td></td></loq<></td></loq<></td></loq<>	<loq< td=""><td><loq< td=""><td></td><td></td></loq<></td></loq<>	<loq< td=""><td></td><td></td></loq<>		
CBT	0.004/0.013	1	0.0166	0.166	0.833	0.833		
d10-THC	0.004/0.013	1	ND	ND	ND	ND		
d9-THCP	0.004/0.013	1	ND	ND	ND	ND		
exo-THC	0.004/0.013	1	ND	ND	ND	ND		

mg/unit = 5.02 (g) per unit x cannabinoid concentration (mg/g) Total THC = THC + (0.877 x THCA) and Total CBD = CBD + (0.877 x CBDA)
ND = Not Detected, NT = Not Tested, <LOQ = Below Limit of Quantitation

CANNABINOID TOTALS	WEIGHT %	MG/G	MG/UNIT	MG/PACKAGE
Total THC	0.0145	0.145	0.728	0.728
Total CBD	0.4591	4.591	23.047	23.047
Total Cannabinoids	0.7966	7.966	39.990	39.990

Diana Asensio, M.S.

Lab Director

**ACT Laboratories Florida** 4001 SW 47th Avenue, Suite 208 Davie, FL 33314 (954) 514-9343







## **CERTIFICATE OF ANALYSIS**

ISO/IEC: 17025:2017 Accreditation #: 103104

License #: CMTL-0004

# **Agricultural Agents**

GC-MS/MS

**PASS** 

# Sample Prep

**Tech:** 3393 **SOP:** 402

**Batch Number:** 61925 **Batch Date:** 12/04/2023 15:13:41

# Sample Analysis

Date/Time: 12/06/2023 11:55:52

Tech: 2816 SOP: 402

Final Weight: 0.5124 g Volume: 10 ml

ANALYTE	LOD/LOQ (ppm)	DIL.	ACTION LEVEL (ppm)	RESULTS (ppm)
Captan	0.07/0.1	1	3	ND
Chlordane	0.01/0.1	1	0.1	ND
Chlorfenapyr	0.01/0.1	1	0.1	ND
Coumaphos	0.01/0.1	1	0.1	ND
Cyfluthrin	0.01/0.1	1	1	ND
Cypermethrin	0.01/0.1	1	1	ND
Methyl parathion	0.01/0.1	1	0.1	ND
Pentachloronitrobenzene	0.01/0.1	1	0.2	ND

# **MYCOTOXIN ANALYSIS**

LC-MS/MS

**PASS** 

## Sample Prep

Tech: 3393 SOP: 432

Batch Number: 61924

Batch Date: 12/04/2023 14:46:55

## Sample Analysis

Date/Time: 12/07/2023 12:59:06

Tech: 3445 SOP: 424

Final Weight: 0.105 g Volume: 2.5 ml

ANALYTE	LOD/LOQ (ppb)	DIL.	ACTION LEVEL (ppb)	RESULTS (ppb)	
Aflatoxin B1	2/10	1	20	ND	
Aflatoxin B2	2/10	1	20	ND	
Aflatoxin G1	2/10	1	20	ND	
Aflatoxin G2	2/5	1	20	ND	
Ochratoxin A	2/10	1	20	ND	

Diana Asensio, M.S.

Lab Director

Som

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## **CERTIFICATE OF ANALYSIS**

ISO/IEC: 17025:2017 Accreditation #: 103104

License #: CMTL-0004

# **Agricultural Agents**

LC-MS/MS

**PASS** 

## Sample Prep

Tech: 3393 SOP: 432

Batch Number: 61924

Batch Date: 12/04/2023 14:46:55

## Sample Analysis

Date/Time: 12/07/2023 12:59:06

Tech: 3445 SOP: 424

Final Weight: 0.105 g Volume: 2.5 ml

ANALYTE	LOD/LOQ (ppm)	DIL.	ACTION LEVEL(ppm)	RESULTS (ppm)	ANALYTE	LOD/LOQ (ppm)	DIL.	ACTION LIMIT(ppm)	RESULTS (ppm)
Abamectin B1a	0.002/0.035	1	0.3	ND	Imazalil	0.002/0.01	1	0.1	ND
Acephate	0.002/0.04	1	3	ND	Imidacloprid	0.002/0.002	1	3	ND
Acequinocyl	0.002/0.002	1	2	ND	Kresoxim-methyl	0.002/0.002	1	1	ND
Acetamiprid	0.002/0.002	1	3	ND	Malathion	0.01/0.04	1	2	ND
Aldicarb	0.002/0.01	1	0.1	ND	Metalaxyl	0.002/0.004	1	3	ND
Azoxystrobin	0.002/0.04	1	3	ND	Methiocarb	0.002/0.01	1	0.1	ND
Bifenazate	0.002/0.002	1	3	ND	Methomyl	0.002/0.002	1	0.1	ND
Bifenthrin	0.002/0.002	1	0.5	ND	Mevinphos	0.009/0.036	1	0.1	ND
Boscalid	0.01/0.05	1	3	ND	Myclobutanil	0.002/0.04	1	3	ND
Carbaryl	0.002/0.004	1	0.5	ND	Naled	0.002/0.01	1	0.5	ND
Carbofuran	0.002/0.01	1	0.1	ND	Oxamyl	0.002/0.002	1	0.5	ND
Chlorantraniliprole	0.002/0.01	1	3	ND	Paclobutrazol	0.002/0.004	1	0.1	ND
Chlormequat chloride	0.002/0.004	1	3	ND	Permethrins	0.002/0.01	1	1	ND
Chlorpyrifos	0.002/0.01	1	0.1	ND	Phosmet	0.002/0.002	1	0.2	ND
Clofentezine	0.002/0.002	1	0.5	ND	Piperonyl Butoxide	0.002/0.002	1	3	ND
Daminozide	0.01/0.04	1	0.1	ND	Prallethrin	0.002/0.01	1	0.4	ND
Diazinon	0.002/0.01	1	0.2	ND	Propiconazole	0.002/0.04	1	1	ND
Dichlorvos	0.002/0.04	1	0.1	ND	Propoxur	0.002/0.01	1	0.1	ND
Dimethoate	0.002/0.002	1	0.1	ND	Pyrethrins	0.001/0.013	1	1	ND
Dimethomorph	0.001/0.002	1	3	ND	Pyridaben	0.002/0.002	1	3	ND
Ethoprophos	0.002/0.01	1	0.1	ND	Spinetoram	0.001/0.003	1	3	ND
Etofenprox	0.002/0.002	1	0.1	ND	Spinosad	0.001/0.001	1	3	ND
Etoxazole	0.002/0.002	1	1.5	ND	Spiromesifen	0.002/0.002	1	3	ND
enhexamid	0.01/0.04	1	3	ND	Spirotetramat	0.002/0.01	1	3	ND
enoxycarb	0.002/0.004	1	0.1	ND	Spiroxamine	0.002/0.04	1	0.1	ND
enpyroximate	0.002/0.002	1	2	ND	Tebuconazole	0.01/0.04	1	1	ND
ipronil	0.002/0.004	1	0.1	ND	Thiacloprid	0.002/0.002	1	0.1	ND
lonicamid	0.002/0.01	1	2	ND	Thiamethoxam	0.002/0.01	1	1	ND
ludioxonil	0.002/0.004	1	3	ND	Trifloxystrobin	0.002/0.002	1	3	ND
Hexythiazox	0.002/0.004	1	2	ND					

Diana Asensio, M.S.

Lab Director

tor **Solution** 







## **CERTIFICATE OF ANALYSIS**

ISO/IEC: 17025:2017 Accreditation #: 103104

License #: CMTL-0004

## **TERPENES TOTAL**

GC-FID

**TESTED (0.000 %)** 

# Sample Prep

**Tech:** 3393 **SOP:** 421

**Batch Number:** 61923 **Batch Date:** 12/04/2023 14:38:40

# Sample Analysis

Date/Time: 12/08/2023 09:32:52

Tech: 2816 SOP: 419

Final Weight: 0.4069 g Volume: 10 ml

TERPENE	LOD/LOQ (%)	DIL.	RESULTS (%)	TERPENE	LOD/LOQ (%)	DIL.	RESULTS (%)
3-Carene	0.001/0.003	1	ND	Geraniol	0.001/0.003	1	ND
alpha-Bisobolol	0.001/0.003	1	<loq< td=""><td>Geranyl acetate</td><td>0.001/0.003</td><td>1</td><td>ND</td></loq<>	Geranyl acetate	0.001/0.003	1	ND
alpha-Cedrene	0.001/0.003	1	ND	Guaiol	0.001/0.003	1	ND
alpha-Humulene	0.001/0.003	1	ND	Hexahydrothymol	0.001/0.003	1	ND
alpha-Pinene	0.001/0.003	1	ND	Isoborneol	0.001/0.003	1	ND
alpha-Terpinene	0.001/0.003	1	ND	Isopulegol	0.001/0.003	1	ND
oeta-Myrcene	0.001/0.003	1	ND	Limonene	0.001/0.003	1	ND
oeta-Pinene	0.001/0.003	1	ND	Linalool	0.001/0.003	1	ND
Borneol	0.001/0.003	1	<loq< td=""><td>Nerol</td><td>0.001/0.003</td><td>1</td><td>ND</td></loq<>	Nerol	0.001/0.003	1	ND
Camphene	0.001/0.003	1	ND	p-Mentha-1,5-diene	0.001/0.003	1	ND
Camphor	0.001/0.003	1	ND	Pulegone	0.001/0.003	1	ND
Caryophyllene oxide	0.001/0.003	1	ND	Sabinene hydrate	0.001/0.003	1	ND
Cedrol	0.001/0.003	1	ND	Terpineol	0.001/0.003	1	ND
cis-Nerolidol	0.001/0.003	1	ND	Terpinolene	0.001/0.003	1	ND
cis-Ocimene	0.001/0.003	1	ND	trans-Caryophyllene	0.001/0.003	1	ND
Eucalyptol	0.001/0.003	1	ND	trans-Nerolidol	0.001/0.003	1	ND
enchone	0.001/0.003	1	ND	trans-Ocimene	0.001/0.003	1	ND
enchyl alcohol	0.001/0.003	1	ND	Valencene	0.001/0.003	1	ND
amma-Terpinene	0.001/0.003	1	ND				

Diana Asensio, M.S.

Lab Director

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ACT Laboratories Florida 4001 SW 47th Avenue, Suite 208 Davie, FL 33314 (954) 514-9343







## **CERTIFICATE OF ANALYSIS**

ISO/IEC: 17025:2017 Accreditation #: 103104

License #: CMTL-0004

## **RESIDUAL SOLVENTS**

HS-GC-MS

**PASS** 

# Sample Prep

Tech: 2816 SOP: 405

**Batch Number:** 61935 **Batch Date:** 12/06/2023 16:34:44

# Sample Analysis

Date/Time: 12/07/2023 15:57:17

Tech: 2816 SOP: 405

Final Weight: 0.0485 g Volume: 1 ml

ANALYTE	LOD/LOQ (ppm)	DIL.	ACTION LIMIT(ppm)	RESULTS (ppm)	ANALYTE	LOD/LOQ (ppm)	DIL.	ACTION LIMIT(ppm)	RESULTS (ppm)
1,1-Dichloroethene	0.6/0.63	1	8	ND	Heptane	6/140	1	5000	ND
1,2-Dichloroethane	0.012/0.12	1	2	ND	Hexanes	0.06/18	1	250	ND
Acetone	9/140	1	750	ND	Isopropyl alcohol	3/140	1	500	<loq< td=""></loq<>
Acetonitrile	0.72/25	1	60	ND	Methanol	6/100	1	250	<loq< td=""></loq<>
Benzene	0.06/1	1	1	ND	Methylene chloride	1.5/1.5	1	125	ND
Butane	48/50	1	5000	ND	Pentane	9/140	1	750	ND
Chloroform	0.2/1	1	2	ND	Propane	30/30	1	5000	ND
Ethanol	12/140	1	5000	<loq< td=""><td>Toluene</td><td>0.9/53</td><td>1</td><td>150</td><td>ND</td></loq<>	Toluene	0.9/53	1	150	ND
Ethyl acetate	2.4/140	1	400	ND	Total xylenes	1.8/130	1	150	ND
Ethyl ether	6/140	1	500	ND	Trichloroethylene	0.3/1	1	25	ND
Ethylene oxide	0.6/2	1	5	ND					

# **HEAVY METAL ANALYSIS**

ICP-MS

**PASS** 

#### Sample Prep

Tech: 3396 SOP: 428

Batch Number: 61932

Batch Date: 12/06/2023 10:23:57

## Sample Analysis

Date/Time: 12/06/2023 14:05:56

Tech: 3396 SOP: 428

Final Weight: 0.2311 g Volume: 60 ml

ANALYTE	LOD/LOQ (ppb)	DIL.	ACTION LIMIT (ppb)	RESULTS (ppb)	
Arsenic	20/75	1	1500	ND	
Cadmium	20/75	1	500	ND	
Lead	20/75	1	500	ND	
Mercury	20/75	1	3000	ND	

# FILTH & FOREIGN MATERIAL ANALYSIS

Result: PASS

## Sample Prep and Analysis

**Date/Time:** 12/05/2023 14:17:46 **Tech:** 4090

**SOP:** 409

Final Weight: 114.6 g

Diana Asensio, M.S.

Lab Director

for

ACT Laboratories Florida 4001 SW 47th Avenue, Suite 208 Davie, FL 33314 (954) 514-9343







# **CERTIFICATE OF ANALYSIS**

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License #: CMTL-0004

# **MICROBIAL ANALYSIS**

**PASS** 

## Sample Prep

Sample Analysis

Tech: 3393 SOP: 406 Batch Number: 61930 Batch Date: 12/05/2023 12:41:15 Date/Time: 12/06/2023 23:47:01 Tech: 3571 Final Weight: 1.0291 g

SOP: 406

ANALYTE	TEST METHOD	ALLOWABLE CRITERIA	ACTUAL RESULT	PASS/FAIL
Total yeast and mold	qPCR	NA	NOT DETECTED	PASS

## Sample Prep

Sample Analysis

Tech: 3393 SOP: 406 Batch Number: 61926 Batch Date: 12/05/2023 10:47:38 Date/Time: 12/07/2023 16:32:09 Tech: 3358 Final Weight: 1.0238 g

SOP: 406

ANALYTE	TEST METHOD	ALLOWABLE CRITERIA	ACTUAL RESULT	PASS/FAIL
Pathogenic e. coli	qPCR	NA	NOT DETECTED	PASS

## Sample Prep

Sample Analysis

NOT DETECTED

Tech: 3393 SOP: 406

Aspergillus terreus

Batch Number: 61926

qPCR

Batch Date: 12/05/2023 10:47:38

Date/Time: 12/07/2023 16:32:09 Tech: 3358

**ACT Laboratories Florida** 

Final Weight: 1.0238 g

ANALYTE TEST METHOD ALLOWABLE CRITERIA PASS/FAIL ACTUAL RESULT Aspergillus flavus aPCR < 1 CFU/g NOT DETECTED PASS qPCR < 1 CFU/g NOT DETECTED PASS Aspergillus fumigatus < 1 CFU/g NOT DETECTED Aspergillus niger qPCR PASS

< 1 CFU/g

SOP: 406

Diana Asensio, M.S.

Lab Director

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PASS



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# **MICROBIAL ANALYSIS**

**PASS** 

# Sample Prep

Sample Analysis

Tech: 3393 SOP: 406 Batch Number: 61926 Batch Date: 12/05/2023 10:47:38 Date/Time: 12/07/2023 16:32:09 Tech: 3358 SOP: 406 Final Weight: 1.0238 g

ANALYTE	TEST METHOD	ALLOWABLE CRITERIA	ACTUAL RESULT	PASS/FAIL
Salmonella	qPCR	< 1 CFU/g	NOT DETECTED	PASS
STEC e. coli	qPCR	< 1 CFU/g	NOT DETECTED	PASS

Diana Asensio, M.S.

Lab Director

Som

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## **WATER ACTIVITY**

Water Activity Meter **Water:** 0.645 Aw

# Sample Prep and Analysis

Date/Time: 12/05/2023 14:14:48 Tech: 4090 SOP: 407 Final Weight: 1.0280 g

Diana Asensio, M.S.

Lab Director

or from

ACT Laboratories Florida 4001 SW 47th Avenue, Suite 208 Davie, FL 33314 (954) 514-9343







2



SunFlora Inc.
Order #: 84839
Retail Batch #:
Neuro FS Natural
1800mg Water
Soluble
(1223FSNRO)

## **CERTIFICATE OF ANALYSIS**

ISO/IEC: 17025:2017 Accreditation #:

103104

License #: CMTL-0004

## **Batch Information**

# **Order Information**

Order #: 84839

Order Name: Neuro FS Natural 1800mg Water

Soluble (1223FSNRO)

Retail Batch #: Neuro FS Natural 1800mg

Water Soluble (1223FSNRO) Received: 12/27/2023 14:32:27 Complete: 01/02/2024 11:15:07 Create Date: Exp. Date: Size: 0 Total Qty.: 0 Matrix: Tincture Pickup Weight: N/A

**CANNABINOID PROFILE** 

**TESTED** 

LABEL CLAIM

NOT APPLICABLE MICROBIAL ANALYSIS

**PASS** 

Lot: 23109 SNF Neuro FS Natural 1800mg Water Soluble for testing purposes only

RESIDUAL SOLVENTS

**PASS** 

AGRICULTURAL AGENTS

PASS

HEAVY METAL ANALYSIS

**PASS** 

TERPENES TOTAL

**TESTED** 

MOISTURE ANALYSIS

**NOT TESTED** 

WATER ACTIVITY

**TESTED** 

0.0643 % Total THC

5.2789 %

**Total CBD** 

FILTH & FOREIGN MATERIAL ANALYSIS

**PASS** 

HOMOGENEITY

**NOT TESTED** 

MYCOTOXIN ANALYSIS

**PASS** 

5.7968 % Total Cannabinoids

Diana Asensio, M.S.

Lab Director

Man -

**ACT Laboratories Florida** 4001 SW 47th Avenue, Suite 208 Davie, FL 33314

Davie, FL 33314 (954) 514-9343







## **CERTIFICATE OF ANALYSIS**

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License #: CMTL-0004

## Sample Prep

## Sample Analysis

**Tech:** 3445

Date/Time: 01/02/2024 11:10:39 **Tech:** 3445

**SOP:** 418 Batch Number: 62037

**SOP:** 417

Batch Date: 12/26/2023 14:33:06

Final Weight: 0.2013 g Volume: 40 ml

**CANNABINOID PROFILE** 

**HPLC-DAD** 

0.0643 % Total THC

0.643 mg THC Per Unit

19.282 mg THC Per Pkg

5.2789 % Total CBD

52.768 mg CBD Per Unit

1583.037 mg CBD Per Pkg

5.7968 %

57.945 mg

1738.345 mg Cannabinoids Per Pkg

**Total Cannabinoids** 

Cannabinoids Per Unit

# **Cannabinoid Potency**

ANALYTE	LOD/LOQ (mg/g)	DIL.	WEIGHT %	MG/G	MG/UNIT	MG/PACKAGE	LABEL CLAIM (mg)	% LABEL VAR.
CBC	0.064/0.1954	1	0.0440	0.440	0.440	13.195		
CBD	0.064/0.1954	1	5.2789	52.789	52.768	1583.037		
CBDA	0.064/0.1954	1	ND	ND	ND	ND		
CBDV	0.064/0.1954	1	0.0312	0.312	0.312	9.356		
CBG	0.064/0.1954	1	0.3784	3.784	3.782	113.475		
CBGA	0.064/0.1954	1	ND	ND	ND	ND		
CBN	0.064/0.1954	1	<loq< td=""><td><loq< td=""><td><loq< td=""><td><loq< td=""><td></td><td></td></loq<></td></loq<></td></loq<></td></loq<>	<loq< td=""><td><loq< td=""><td><loq< td=""><td></td><td></td></loq<></td></loq<></td></loq<>	<loq< td=""><td><loq< td=""><td></td><td></td></loq<></td></loq<>	<loq< td=""><td></td><td></td></loq<>		
d8-THC	0.064/0.1954	1	ND	ND	ND	ND		
d9-THC	0.064/0.1954	1	0.0643	0.643	0.643	19.282		
THCA	0.064/0.1954	1	ND	ND	ND	ND		
THCV	0.064/0.1954	1	ND	ND	ND	ND		

mg/unit = 1 (g) per unit x 0.9996 (g/ml) x cannabinoid concentration (mg/g) Total THC = THC +  $(0.877 \times THCA)$  and Total CBD = CBD +  $(0.877 \times CBDA)$  ND = Not Detected, NT = Not Tested, <LOQ = Below Limit of Quantitation

CANNABINOID TOTALS	WEIGHT %	MG/G	MG/UNIT	MG/PACKAGE
Total THC	0.0643	0.643	0.643	19.282
Total CBD	5.2789	52.789	52.768	1583.037
Total Cannabinoids	5.7968	57.968	57.945	1738.345

Diana Asensio, M.S.

Lab Director

**ACT Laboratories Florida** 4001 SW 47th Avenue, Suite 208 Davie, FL 33314 (954) 514-9343







## **CERTIFICATE OF ANALYSIS**

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License #: CMTL-0004

# **Agricultural Agents**

GC-MS/MS

**PASS** 

# Sample Prep

**Tech:** 4090 **SOP:** 402

**Batch Number:** 62045 **Batch Date:** 12/27/2023 14:57:12

# Sample Analysis

Date/Time: 01/02/2024 09:43:35

Tech: 2816 SOP: 402

Final Weight: 0.5241 g Volume: 10 ml

ANALYTE	LOD/LOQ (ppm)	DIL.	ACTION LEVEL (ppm)	RESULTS (ppm)
Captan	0.07/0.1	1	3	ND
Chlordane	0.01/0.1	1	0.1	ND
Chlorfenapyr	0.01/0.1	1	0.1	ND
Coumaphos	0.01/0.1	1	0.1	ND
Cyfluthrin	0.01/0.1	1	1	ND
Cypermethrin	0.01/0.1	1	1	ND
Methyl parathion	0.01/0.1	1	0.1	ND
Pentachloronitrobenzene	0.01/0.1	1	0.2	ND

# **MYCOTOXIN ANALYSIS**

LC-MS/MS

**PASS** 

## Sample Prep

**Tech:** 4090 **SOP:** 432

Batch Number: 62044

Batch Date: 12/27/2023 14:56:48

## Sample Analysis

Date/Time: 01/02/2024 09:36:00

Tech: 3445 SOP: 424

Final Weight: 0.1042 g Volume: 2.5 ml

ANALYTE LOD/LOQ (ppb) DIL. ACTION LEVEL (ppb) RESULTS (ppb) Aflatoxin B1 2/10 1 20 ND Aflatoxin B2 2/10 20 ND Aflatoxin G1 2/10 20 ND Aflatoxin G2 2/5 20 ND Ochratoxin A 2/10 20 ND

Diana Asensio, M.S.

Lab Director

for

ACT Laboratories Florida 4001 SW 47th Avenue, Suite 208 Davie, FL 33314 (954) 514-9343







## **CERTIFICATE OF ANALYSIS**

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License #: CMTL-0004

# **Agricultural Agents**

LC-MS/MS

**PASS** 

## Sample Prep

**Tech:** 4090

SOP: 432 Batch Number: 62044

Batch Date: 12/27/2023 14:56:48

## Sample Analysis

Date/Time: 01/02/2024 09:36:00

Tech: 3445 SOP: 424

Final Weight: 0.1042 g Volume: 2.5 ml

ANALYTE	LOD/LOQ (ppm)	DIL.	ACTION LEVEL(ppm)	RESULTS (ppm)	ANALYTE	LOD/LOQ (ppm)	DIL.	ACTION LIMIT(ppm)	RESULTS (ppm)
Abamectin B1a	0.002/0.035	1	0.3	ND	Imazalil	0.002/0.01	1	0.1	ND
Acephate	0.002/0.04	1	3	ND	Imidacloprid	0.002/0.002	1	3	ND
Acequinocyl	0.002/0.002	1	2	ND	Kresoxim-methyl	0.002/0.002	1	1	ND
Acetamiprid	0.002/0.002	1	3	ND	Malathion	0.01/0.04	1	2	ND
Aldicarb	0.002/0.01	1	0.1	ND	Metalaxyl	0.002/0.004	1	3	ND
Azoxystrobin	0.002/0.04	1	3	<loq< td=""><td>Methiocarb</td><td>0.002/0.01</td><td>1</td><td>0.1</td><td>ND</td></loq<>	Methiocarb	0.002/0.01	1	0.1	ND
Bifenazate	0.002/0.002	1	3	ND	Methomyl	0.002/0.002	1	0.1	ND
lifenthrin	0.002/0.002	1	0.5	0.015	Mevinphos	0.009/0.036	1	0.1	ND
Boscalid	0.01/0.05	1	3	ND	Myclobutanil	0.002/0.04	1	3	ND
Carbaryl	0.002/0.004	1	0.5	ND	Naled	0.002/0.01	1	0.5	ND
Carbofuran	0.002/0.01	1	0.1	ND	Oxamyl	0.002/0.002	1	0.5	ND
Chlorantraniliprole	0.002/0.01	1	3	ND	Paclobutrazol	0.002/0.004	1	0.1	ND
Chlormequat chloride	0.002/0.004	1	3	ND	Permethrins	0.002/0.01	1	1	ND
Chlorpyrifos	0.002/0.01	1	0.1	ND	Phosmet	0.002/0.002	1	0.2	ND
Clofentezine	0.002/0.002	1	0.5	ND	Piperonyl Butoxide	0.002/0.002	1	3	ND
Daminozide	0.01/0.04	1	0.1	ND	Prallethrin	0.002/0.01	1	0.4	ND
Diazinon	0.002/0.01	1	0.2	ND	Propiconazole	0.002/0.04	1	1	ND
Dichlorvos	0.002/0.04	1	0.1	ND	Propoxur	0.002/0.01	1	0.1	ND
Dimethoate	0.002/0.002	1	0.1	ND	Pyrethrins	0.001/0.013	1	1	ND
Dimethomorph	0.001/0.002	1	3	ND	Pyridaben	0.002/0.002	1	3	ND
thoprophos	0.002/0.01	1	0.1	ND	Spinetoram	0.001/0.003	1	3	ND
Etofenprox	0.002/0.002	1	0.1	ND	Spinosad	0.001/0.001	1	3	ND
toxazole	0.002/0.002	1	1.5	ND	Spiromesifen	0.002/0.002	1	3	ND
enhexamid	0.01/0.04	1	3	ND	Spirotetramat	0.002/0.01	1	3	ND
enoxycarb	0.002/0.004	1	0.1	ND	Spiroxamine	0.002/0.04	1	0.1	ND
enpyroximate	0.002/0.002	1	2	ND	Tebuconazole	0.01/0.04	1	1	ND
ipronil	0.002/0.004	1	0.1	ND	Thiacloprid	0.002/0.002	1	0.1	ND
lonicamid	0.002/0.01	1	2	ND	Thiamethoxam	0.002/0.01	1	1	ND
ludioxonil	0.002/0.004	1	3	ND	Trifloxystrobin	0.002/0.002	1	3	ND
Hexythiazox	0.002/0.004	1	2	ND					

Diana Asensio, M.S.

Lab Director

or Som

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# **CERTIFICATE OF ANALYSIS**

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## **TERPENES TOTAL**

GC-FID

**TESTED (0.368 %)** 

# Sample Prep

**Tech:** 4090 **SOP:** 421

Batch Number: 62033

Batch Date: 12/26/2023 10:36:24

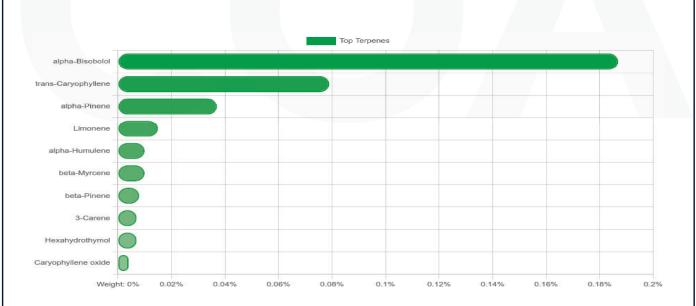
# Sample Analysis

Date/Time: 12/28/2023 09:03:08

Tech: 2816 SOP: 419

Final Weight: 0.4175 g Volume: 10 ml

TERPENE	LOD/LOQ (%)	DIL.	RESULTS (%)	TERPENE	LOD/LOQ (%)	DIL.	RESULTS (%)
3-Carene	0.001/0.003	1	0.007	Geraniol	0.001/0.003	1	ND
alpha-Bisobolol	0.001/0.003	1	0.187	Geranyl acetate	0.001/0.003	1	ND
alpha-Cedrene	0.001/0.003	1	ND	Guaiol	0.001/0.003	1	0.004
alpha-Humulene	0.001/0.003	1	0.010	Hexahydrothymol	0.001/0.003	1	0.007
alpha-Pinene	0.001/0.003	1	0.037	Isoborneol	0.001/0.003	1	ND
alpha-Terpinene	0.001/0.003	1	<loq< td=""><td>Isopulegol</td><td>0.001/0.003</td><td>1</td><td>ND</td></loq<>	Isopulegol	0.001/0.003	1	ND
oeta-Myrcene	0.001/0.003	1	0.010	Limonene	0.001/0.003	1	0.015
oeta-Pinene	0.001/0.003	1	0.008	Linalool	0.001/0.003	1	ND
Borneol	0.001/0.003	1	ND	Nerol	0.001/0.003	1	ND
Camphene	0.001/0.003	1	ND	p-Mentha-1,5-diene	0.001/0.003	1	<loq< td=""></loq<>
Camphor	0.001/0.003	1	ND	Pulegone	0.001/0.003	1	ND
Caryophyllene oxide	0.001/0.003	1	0.004	Sabinene hydrate	0.001/0.003	1	ND
Cedrol	0.001/0.003	1	ND	Terpineol	0.001/0.003	1	<loq< td=""></loq<>
cis-Nerolidol	0.001/0.003	1	ND	Terpinolene	0.001/0.003	1	<loq< td=""></loq<>
cis-Ocimene	0.001/0.003	1	ND	trans-Caryophyllene	0.001/0.003	1	0.079
Eucalyptol	0.001/0.003	1	ND	trans-Nerolidol	0.001/0.003	1	ND
enchone	0.001/0.003	1	ND	trans-Ocimene	0.001/0.003	1	ND
Fenchyl alcohol	0.001/0.003	1	ND	Valencene	0.001/0.003	1	ND
gamma-Terpinene	0.001/0.003	1	<loq< td=""><td></td><td></td><td></td><td></td></loq<>				



Diana Asensio, M.S.

Lab Director

for

ACT Laboratories Florida 4001 SW 47th Avenue, Suite 208 Davie, FL 33314 (954) 514-9343







## **CERTIFICATE OF ANALYSIS**

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## **RESIDUAL SOLVENTS**

HS-GC-MS

**PASS** 

# Sample Prep

Tech: 2816 SOP: 405

**Batch Number:** 62049 **Batch Date:** 12/27/2023 18:20:28

# Sample Analysis

Date/Time: 12/28/2023 16:50:49

Tech: 2816 SOP: 405

Final Weight: 0.0516 g Volume: 1 ml

ANALYTE	LOD/LOQ (ppm)	DIL.	ACTION LIMIT(ppm)	RESULTS (ppm)	ANALYTE	LOD/LOQ (ppm)	DIL.	ACTION LIMIT(ppm)	RESULTS (ppm)
1,1-Dichloroethene	0.6/0.63	1	8	ND	Heptane	6/140	1	5000	ND
1,2-Dichloroethane	0.012/0.12	1	2	ND	Hexanes	0.06/18	1	250	ND
Acetone	9/140	1	750	<loq< td=""><td>Isopropyl alcohol</td><td>3/140</td><td>1</td><td>500</td><td><loq< td=""></loq<></td></loq<>	Isopropyl alcohol	3/140	1	500	<loq< td=""></loq<>
Acetonitrile	0.72/25	1	60	<loq< td=""><td>Methanol</td><td>6/100</td><td>1</td><td>250</td><td><loq< td=""></loq<></td></loq<>	Methanol	6/100	1	250	<loq< td=""></loq<>
Benzene	0.06/1	1	1	ND	Methylene chloride	1.5/1.5	1	125	ND
Butane	48/50	1	5000	ND	Pentane	9/140	1	750	ND
Chloroform	0.2/1	1	2	ND	Propane	30/30	1	5000	ND
Ethanol	12/140	1	5000	<loq< td=""><td>Toluene</td><td>0.9/53</td><td>1</td><td>150</td><td>ND</td></loq<>	Toluene	0.9/53	1	150	ND
Ethyl acetate	2.4/140	1	400	ND	Total xylenes	1.8/130	1	150	ND
Ethyl ether	6/140	1	500	ND	Trichloroethylene	0.3/1	1	25	ND
Ethylene oxide	0.6/2	1	5	ND					

## **HEAVY METAL ANALYSIS**

ICP-MS

**PASS** 

#### Sample Prep

Tech: 3396 SOP: 428

Batch Number: 62050

Batch Date: 12/28/2023 10:19:09

## Sample Analysis

Date/Time: 12/28/2023 14:34:30

Tech: 3396 SOP: 428

Final Weight: 0.2629 g Volume: 60 ml

ANALYTE	LOD/LOQ (ppb)	DIL.	ACTION LIMIT (ppb)	RESULTS (ppb)	
Arsenic	20/75	1	1500	ND	
Cadmium	20/75	1	500	ND	
Lead	20/75	1	500	ND	
Mercury	20/75	1	3000	ND	

# FILTH & FOREIGN MATERIAL ANALYSIS

Result: PASS

## Sample Prep and Analysis

Date/Time: 12/29/2023 11:41:08

Tech: 3393 SOP: 409

Final Weight: 78.4 g

Diana Asensio, M.S.

Lab Director

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## **MICROBIAL ANALYSIS**

**PASS** 

## Sample Prep

Sample Analysis

Date/Time: 12/28/2023 18:32:27 Tech: 4302 Final Weight: 1.0144 g

Tech: 4090 SOP: 406 Batch Number: 62042 Batch Date: 12/27/2023 14:11:14

SOP: 406

ANALYTE TEST METHOD ALLOWABLE CRITERIA ACTUAL RESULT PASS/FAIL

Total yeast and mold qPCR NA NOT DETECTED PASS

## Sample Prep

Sample Analysis

Tech: 4090 SOP: 406 Batch Number: 62043

Batch Date: 12/27/2023 14:11:53

Date/Time: 12/29/2023 15:19:51

Final Weight: 1.0146 g

Tech. 550	0
SOP: 406	

ANALYTE	TEST METHOD	ALLOWABLE CRITERIA	ACTUAL RESULT	PASS/FAIL
Aspergillus flavus	qPCR	< 1 CFU/g	NOT DETECTED	PASS
Aspergillus fumigatus	qPCR	< 1 CFU/g	NOT DETECTED	PASS
Aspergillus niger	qPCR	< 1 CFU/g	NOT DETECTED	PASS
Aspergillus terreus	qPCR	< 1 CFU/g	NOT DETECTED	PASS

## Sample Prep

Sample Analysis

Tech: 4090 SOP: 406 Batch Number: 62043

Batch Date: 12/27/2023 14:11:53

Date/Time: 12/29/2023 15:19:51 Tech: 3358

SOP: 406

Final Weight: 1.0146 g

ANALYTE	TEST METHOD	ALLOWABLE CRITERIA	ACTUAL RESULT	PASS/FAIL
Pathogenic e. coli	qPCR	< 1 CFU/g	NOT DETECTED	PASS

Diana Asensio, M.S.

Lab Director

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## **CERTIFICATE OF ANALYSIS**

ISO/IEC: 17025:2017 Accreditation #: 103104 License #: CMTL-0004

## **MICROBIAL ANALYSIS**

**PASS** 

# Sample Prep

Sample Analysis

Tech: 4090 SOP: 406 Batch Number: 62043 Batch Date: 12/27/2023 14:11:53 Date/Time: 12/29/2023 15:19:51 Tech: 3358 SOP: 406 Final Weight: 1.0146 g

ANALYTE	TEST METHOD	ALLOWABLE CRITERIA	ACTUAL RESULT	PASS/FAIL
Salmonella	qPCR	< 1 CFU/g	NOT DETECTED	PASS
STEC e. coli	qPCR	< 1 CFU/g	NOT DETECTED	PASS

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for

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## **CERTIFICATE OF ANALYSIS**

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License #: CMTL-0004

## **WATER ACTIVITY**

Water Activity Meter **Water:** 0.916 Aw

# Sample Prep and Analysis

**Date/Time:** 12/29/2023 11:41:08 **Tech:** 3393 **SOP:** 407

Final Weight: 1.0146 g

Diana Asensio, M.S.

Lab Director

or from

ACT Laboratories Florida 4001 SW 47th Avenue, Suite 208 Davie, FL 33314 (954) 514-9343









## **CERTIFICATE OF ANALYSIS**

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License #: CMTL-0004

## **Batch Information**

# **Order Information**

Order #: 84058

Order Name: 14g CBG/CBD Mix Raw Hemp

102023RHMX

Retail Batch #: 14g CBG/CBD Mix Raw Hemp

102023RHMX

Received: 10/19/2023 16:38:49 Complete: 10/27/2023 15:00:23 Create Date: Exp. Date: Size: 0 Total Qty.: 0 Matrix: Flower (M) Pickup Weight: N/A

**CANNABINOID PROFILE** 

TESTED

LABEL CLAIM

NOT APPLICABLE MICROBIAL ANALYSIS

PASS

THE CASE

RESIDUAL SOLVENTS

**PASS** 

AGRICULTURAL AGENTS

PASS

HEAVY METAL ANALYSIS

**PASS** 

TERPENES TOTAL

**TESTED** 

MOISTURE ANALYSIS

**NOT TESTED** 

WATER ACTIVITY

**TESTED** 

0.1162 %

Total THC

) (

4.3263 %

Total CBD

FILTH & FOREIGN MATERIAL ANALYSIS

**PASS** 

HOMOGENEITY

**NOT TESTED** 

MYCOTOXIN ANALYSIS

**PASS** 

12.7121 %

**Total Cannabinoids** 

Diana Asensio, M.S.

Lab Director



**ACT Laboratories Florida** 4001 SW 47th Avenue, Suite 208 Davie, FL 33314

Davie, FL 33314 (954) 514-9343







## **CERTIFICATE OF ANALYSIS**

ISO/IEC: 17025:2017 Accreditation #: 103104

License #: CMTL-0004

## Sample Prep

## Sample Analysis

**Tech:** 3393 **SOP:** 418 Batch Number: 61687

Batch Date: 10/19/2023 12:45:32

Date/Time: 10/20/2023 13:40:27

**Tech:** 3445 **SOP:** 417

Final Weight: 0.1051 g Volume: 40 ml

**CANNABINOID PROFILE** 

**HPLC-DAD** 

0.1162 % Total THC

1.162 mg THC Per Unit

16.268 mg THC Per Pkg

4.3263 % Total CBD

43.263 mg CBD Per Unit

605.682 mg CBD Per Pkg

12.7121 %

127.121 mg

1779.694 mg

**Total Cannabinoids** 

# Cannabinoids Per Unit

Cannabinoids Per Pkg

# **Cannabinoid Potency**

ANALYTE	LOD/LOQ (mg/g)	DIL.	ACTUAL %	DRY WT. %	MG/G	MG/UNIT	MG/PACKAGE	LABEL CLAIM (mg)	% LABEL VAR.
СВС	0.129/0.3908	1	0.277	0.277	2.772	2.772	38.808		
CBD	0.129/0.3908	1	3.024	3.024	30.236	30.236	423.304		
CBDA	0.129/0.3908	1	1.485	1.485	14.854	14.854	207.956		
CBDV	0.129/0.3908	1	ND	ND	ND	ND	ND		
CBG	0.129/0.3908	1	0.704	0.704	7.037	7.037	98.518		
CBGA	0.129/0.3908	1	6.967	6.967	69.666	69.666	975.324		
CBN	0.129/0.3908	1	0.042	0.042	0.418	0.418	5.852		
d8-THC	0.129/0.3908	1	ND	ND	ND	ND	ND		
d9-THC	0.129/0.3908	1	0.116	0.116	1.162	1.162	16.268		
THCA	0.129/0.3908	1	ND	ND	ND	ND	ND		
THCV	0.129/0.3908	1	ND	ND	ND	ND	ND		

## **Additional Cannabinoids**

ANALYTE	LOD/LOQ (mg/g)	DIL.	ACTUAL %	DRY WT. %	MG/G	MG/UNIT	MG/PACKAGE	LABEL CLAIM (mg)	% LABEL VAR.
CBDVA	0.129/0.3908	1	ND	ND	ND	ND	ND		
CBL	0.129/0.3908	1	ND	ND	ND	ND	ND		
CBT	0.129/0.3908	1	0.098	0.098	0.976	0.976	13.664		
d10-THC	0.129/0.3908	1	ND	ND	ND	ND	ND		
d9-THCP	0.129/0.3908	1	ND	ND	ND	ND	ND		
exo-THC	0.129/0.3908	1	ND	ND	ND	ND	ND		

mg/unit = 1 (g) per unit x cannabinoid concentration (mg/g) Total THC = THC + (0.877  $\times$  THCA) and Total CBD = CBD + (0.877  $\times$  CBDA) ND = Not Detected, NT = Not Tested, <LOQ = Below Limit of Quantitation

CANNABINOID TOTALS	ACTUAL %	DRY WEIGHT %	MG/G	MG/UNIT	MG/PACKAGE
Total THC	0.116	0.116	1.162	1.162	16.268
Total CBD	4.326	4.326	43.263	43.263	605.682
Total Cannabinoids	12.712	12.712	127.121	127.121	1779.694

Diana Asensio, M.S.

Lab Director









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# **Agricultural Agents**

GC-MS/MS

**PASS** 

# Sample Prep

**Tech:** 4090 **SOP:** 402

**Batch Number:** 61700 **Batch Date:** 10/20/2023 14:03:50

# Sample Analysis

Date/Time: 10/23/2023 16:42:48

Tech: 2816 SOP: 402

Final Weight: 0.5219 g Volume: 10 ml

ANALYTE	LOD/LOQ (ppm)	DIL.	ACTION LEVEL (ppm)	RESULTS (ppm)
Captan	0.07/0.1	1	0.7	ND
Chlordane	0.01/0.1	1	0.1	ND
Chlorfenapyr	0.01/0.1	1	0.1	ND
Coumaphos	0.01/0.1	1	0.1	ND
Cyfluthrin	0.01/0.1	1	0.5	ND
Cypermethrin	0.01/0.1	1	0.5	ND
Methyl parathion	0.01/0.1	1	0.1	ND
Pentachloronitrobenzene	0.01/0.1	1	0.15	ND

# MYCOTOXIN ANALYSIS

LC-MS/MS

**PASS** 

## Sample Prep

**Tech:** 4090 **SOP:** 432

Batch Number: 61701

Batch Date: 10/20/2023 15:43:29

## Sample Analysis

Date/Time: 10/24/2023 10:12:14

Tech: 3445 SOP: 424

Final Weight: 0.1033 g Volume: 2.5 ml

ANALYTE ACTION LEVEL (ppb) RESULTS (ppb) LOD/LOQ (ppb) DIL. Aflatoxin B1 4/10 0 ND Aflatoxin B2 4/10 0 ND Aflatoxin G1 4/10 0 ND Aflatoxin G2 4/5 0 ND Ochratoxin A 10/10 20 ND Total Aflatoxins 4/10 20 ND

Diana Asensio, M.S.

Lab Director

Som







## **CERTIFICATE OF ANALYSIS**

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License #: CMTL-0004

# **Agricultural Agents**

LC-MS/MS

**PASS** 

## Sample Prep

**Tech:** 4090

SOP: 432 Batch Number: 61701

Batch Date: 10/20/2023 15:43:29

## Sample Analysis

Date/Time: 10/24/2023 10:12:14

Tech: 3445 SOP: 424

Final Weight: 0.1033 g Volume: 2.5 ml

ANALYTE	LOD/LOQ (ppm)	DIL.	ACTION LEVEL(ppm)	RESULTS (ppm)	ANALYTE	LOD/LOQ (ppm)	DIL.	ACTION LIMIT(ppm)	RESULTS (ppm)
Abamectin B1a	0.083/0.25	1	0.5	ND	Hexythiazox	0.167/0.5	1	1	ND
Acephate	0.067/0.2	1	0.4	ND	Imazalil	0.033/0.1	1	0.2	ND
Acequinocyl	0.333/1	1	2	ND	Imidacloprid	0.067/0.2	1	0.4	ND
Acetamiprid	0.033/0.1	1	0.2	ND	Kresoxim-methyl	0.067/0.2	1	0.4	ND
Aldicarb	0.067/0.2	1	0.4	ND	Malathion	0.033/0.1	1	0.2	ND
Azoxystrobin	0.033/0.1	1	0.2	ND	Metalaxyl	0.033/0.1	1	0.2	ND
Bifenazate	0.033/0.1	1	0.2	ND	Methiocarb	0.033/0.1	1	0.2	ND
Bifenthrin	0.033/0.1	1	0.2	ND	Methomyl	0.067/0.2	1	0.4	ND
Boscalid	0.067/0.2	1	0.4	ND	Myclobutanil	0.033/0.1	1	0.2	ND
Carbaryl	0.033/0.1	1	0.2	ND	Naled	0.083/0.25	1	0.5	ND
Carbofuran	0.033/0.1	1	0.2	ND	Oxamyl	0.167/0.5	1	1	ND
Chlorantraniliprole	0.033/0.1	1	0.2	ND	Paclobutrazol	0.067/0.2	1	0.4	ND
Chlorfenapyr	0.167/0.5	1	1	ND	Permethrins	0.033/0.1	1	0.2	ND
Chlorpyrifos	0.033/0.1	1	0.2	ND	Phosmet	0.033/0.1	1	0.2	ND
Clofentezine	0.033/0.1	1	0.2	ND	Piperonyl Butoxide	0.333/1	1	2	ND
Cyfluthrin	0.167/0.5	1	1	ND	Prallethrin	0.033/0.1	1	0.2	ND
Cypermethrin	0.167/0.5	1	1	ND	Propiconazole	0.067/0.2	1	0.4	ND
Daminozide	0.167/0.5	1	1	ND	Propoxur	0.033/0.1	1	0.2	ND
Diazinon	0.033/0.1	1	0.2	ND	Pyrethrins	0.033/0.1	1	1	ND
Dichlorvos	0.017/0.05	1	0.1	ND	Pyridaben	0.033/0.1	1	0.2	ND
Dimethoate	0.033/0.1	1	0.2	ND	Spinosad	0.033/0.1	1	0.2	ND
Ethoprophos	0.033/0.1	1	0.2	ND	Spiromesifen	0.033/0.1	1	0.2	ND
Etofenprox	0.067/0.2	1	0.4	ND	Spirotetramat	0.033/0.1	1	0.2	ND
Etoxazole	0.033/0.1	1	0.2	ND	Spiroxamine	0.067/0.2	1	0.4	ND
enoxycarb	0.033/0.1	1	0.2	ND	Tebuconazole	0.067/0.2	1	0.4	ND
enpyroximate	0.067/0.2	1	0.4	ND	Thiacloprid	0.033/0.1	1	0.2	ND
ipronil	0.067/0.2	1	0.4	ND	Thiamethoxam	0.033/0.1	1	0.2	ND
Flonicamid	0.167/0.5	1	1	ND	Trifloxystrobin	0.033/0.1	1	0.2	ND
Fludioxonil	0.067/0.2	1	0.4	ND					

Diana Asensio, M.S.

Lab Director

or Som







## **CERTIFICATE OF ANALYSIS**

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License #: CMTL-0004

## **TERPENES TOTAL**

GC-FID

**TESTED (0.498 %)** 

# Sample Prep

Tech: 4090 SOP: 421

Batch Number: 61699

Batch Date: 10/20/2023 14:03:37

# Sample Analysis

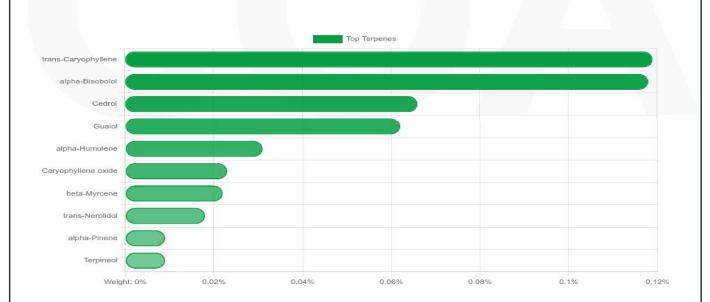
Date/Time: 10/23/2023 16:45:45

Tech: 2816 SOP: 419

Final Weight: 0.4081 g

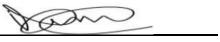
Volume: 10 ml

TERPENE	LOD/LOQ (%)	DIL.	RESULTS (%)	TERPENE	LOD/LOQ (%)	DIL.	RESULTS (%)
3-Carene	0.001/0.003	1	ND	Geraniol	0.001/0.003	1	ND
alpha-Bisobolol	0.001/0.003	1	0.118	Geranyl acetate	0.001/0.003	1	ND
alpha-Cedrene	0.001/0.003	1	ND	Guaiol	0.001/0.003	1	0.062
alpha-Humulene	0.001/0.003	1	0.031	Hexahydrothymol	0.001/0.003	1	ND
alpha-Pinene	0.001/0.003	1	0.009	Isoborneol	0.001/0.003	1	ND
alpha-Terpinene	0.001/0.003	1	ND	Isopulegol	0.001/0.003	1	ND
beta-Myrcene	0.001/0.003	1	0.022	Limonene	0.001/0.003	1	0.006
beta-Pinene	0.001/0.003	1	ND	Linalool	0.001/0.003	1	0.005
Borneol	0.001/0.003	1	0.003	Nerol	0.001/0.003	1	ND
Camphene	0.001/0.003	1	ND	p-Mentha-1,5-diene	0.001/0.003	1	ND
Camphor	0.001/0.003	1	ND	Pulegone	0.001/0.003	1	ND
Caryophyllene oxide	0.001/0.003	1	0.023	Sabinene hydrate	0.001/0.003	1	ND
Cedrol	0.001/0.003	1	0.066	Terpineol	0.001/0.003	1	0.009
cis-Nerolidol	0.001/0.003	1	ND	Terpinolene	0.001/0.003	1	ND
cis-Ocimene	0.001/0.003	1	ND	trans-Caryophyllene	0.001/0.003	1	0.119
Eucalyptol	0.001/0.003	1	ND	trans-Nerolidol	0.001/0.003	1	0.018
Fenchone	0.001/0.003	1	ND	trans-Ocimene	0.001/0.003	1	ND
Fenchyl alcohol	0.001/0.003	1	0.007	Valencene	0.001/0.003	1	ND
gamma-Terpinene	0.001/0.003	1	ND				



Diana Asensio, M.S.

Lab Director



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## **RESIDUAL SOLVENTS**

HS-GC-MS

**PASS** 

# Sample Prep

Tech: 2816 SOP: 405

**Batch Number:** 61715 **Batch Date:** 10/24/2023 10:21:16

# Sample Analysis

Date/Time: 10/25/2023 12:57:34

Tech: 3445 SOP: 405

Final Weight: 0.0535 g Volume: 1 ml

ANALYTE	LOD/LOQ (ppm)	DIL.	ACTION LIMIT(ppm)	RESULTS (ppm)	ANALYTE	LOD/LOQ (ppm)	DIL.	ACTION LIMIT(ppm)	RESULTS (ppm)
1,1-Dichloroethene	0.6/0.63	1	8	ND	Ethylene oxide	0.6/2	1	5	ND
1,2-Dichloroethane	0.012/0.12	1	2	ND	Heptane	6/140	1	5000	ND
Acetone	9/140	1	750	<loq< td=""><td>Hexanes</td><td>0.06/18</td><td>1</td><td>250</td><td>ND</td></loq<>	Hexanes	0.06/18	1	250	ND
Acetonitrile	0.72/25	1	60	<loq< td=""><td>Methanol</td><td>6/100</td><td>1</td><td>3000</td><td>235.027</td></loq<>	Methanol	6/100	1	3000	235.027
Benzene	0.06/1	1	1	ND	Methylene chloride	1.5/1.5	1	125	ND
Butane	48/50	1	5000	ND	Pentane	9/140	1	750	ND
Chloroform	0.2/1	1	2	ND	Propane	30/30	1	5000	ND
Ethanol	12/140	1	5000	ND	Toluene	0.9/53	1	150	ND
Ethyl acetate	2.4/140	1	400	ND	Total xylenes	1.8/130	1	150	ND
Ethyl ether	6/140	1	500	ND	Trichloroethylene	0.3/1	1	25	ND

# **HEAVY METAL ANALYSIS**

ICP-MS

**PASS** 

## Sample Prep

Tech: 3396 SOP: 428

Batch Number: 61710

Batch Date: 10/23/2023 10:21:13

## Sample Analysis

Date/Time: 10/23/2023 14:36:40

Tech: 3396 SOP: 428

Final Weight: 0.2266 g Volume: 60 ml

ANALYTE	LYTE LOD/LOQ (ppb)		ACTION LIMIT (ppb)	RESULTS (ppb)
Arsenic	20/75	1	200	<loq< td=""></loq<>
Cadmium	20/75	1	200	<loq< td=""></loq<>
Lead	20/75	1	500	140.335
Mercury	20/75	1	200	ND

# FILTH & FOREIGN MATERIAL ANALYSIS

Result: PASS

## Sample Prep and Analysis

**Date/Time:** 10/22/2023 18:05:49

**Tech:** 4090 **SOP:** 409

Final Weight: 4.1 g

Diana Asensio, M.S.

Lab Director

for

ACT Laboratories Florida 4001 SW 47th Avenue, Suite 208 Davie, FL 33314 (954) 514-9343







## **CERTIFICATE OF ANALYSIS**

ISO/IEC: 17025:2017 Accreditation #: 103104

License #: CMTL-0004

## **MICROBIAL ANALYSIS**

**PASS** 

## Sample Prep

Sample Analysis

Tech: 4090 Ba SOP: 406 Ba

Batch Number: 61694 Batch Date: 10/20/2023 14:01:28 Date/Time: 10/24/2023 11:25:25 Tech: 3571 Final Weight: 1.0127 g

SOP: 406

ANALYTE	TEST METHOD	ALLOWABLE CRITERIA	ACTUAL RESULT	PASS/FAIL
Total yeast and mold	qPCR	NA	< 10,000	PASS

## Sample Prep

## Sample Analysis

Tech: 4090 SOP: 406 Batch Number: 61695 Batch Date: 10/20/2023 14:01:55 Date/Time: 10/23/2023 21:53:10 Tech: 3571

Date/Time: 10/23/2023 21:53:10

Final Weight: 1.0045 g

ANALYTE	TEST METHOD		ACTUAL RESULT	PASS/FAIL
Salmonella	qPCR	< 1 CFU/g	NOT DETECTED	PASS
STEC e. coli	qPCR	< 1 CFU/g	NOT DETECTED	PASS

## Sample Prep

## Sample Analysis

Tech: 4090 SOP: 406 Batch Number: 61695 Batch Date: 10/20/2023 14:01:55

Date: 10/20/2023 14:01:55 Tech: 3571

SOP: 406

SOP: 406

Final Weight: 1.0045 g

ANALYTE	TEST METHOD	ALLOWABLE CRITERIA	ACTUAL RESULT	PASS/FAIL
Aspergillus flavus	qPCR	< 1 CFU/g	NOT DETECTED	PASS
Aspergillus fumigatus	qPCR	< 1 CFU/g	NOT DETECTED	PASS
Aspergillus niger	qPCR	< 1 CFU/g	NOT DETECTED	PASS
Aspergillus terreus	qPCR	< 1 CFU/g	NOT DETECTED	PASS

Diana Asensio, M.S.

Lab Director







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## **MICROBIAL ANALYSIS**

**PASS** 

# Sample Prep

Sample Analysis

Tech: 3393 SOP: 406 Batch Number: 61716 Batch Date: 10/24/2023 10:34:35 Date/Time: 10/26/2023 18:21:08 Tech: 3571 SOP: 406 Final Weight: 1.002 g

ANALYTE	TEST METHOD	ALLOWABLE CRITERIA	ACTUAL RESULT	PASS/FAIL
Pathogenic e. coli	qPCR	NA	NOT DETECTED	PASS

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Som







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## WATER ACTIVITY

Water Activity Meter **Water:** 0.498 Aw

# Sample Prep and Analysis

**Date/Time:** 10/22/2023 18:40:52 **Tech:** 4090 **SOP:** 407 **Final Weight:** 1.0101 g

Diana Asensio, M.S.

Lab Director







EXHIBIT 4

Health AND Human

Kim Reynolds GOVERNOR Adam Gregg LT. GOVERNOR Kelly Garcia DIRECTOR

# **BUREAU OF CANNABIS REGULATION**

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REGISTRATION #199056

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REGISTRATION FOR 125 5th Street

FOLLOWING LOCATION: West Des Moines, IA 50265

DATE OF ISSUE: 3/16/2024

EXPIRATION DATE: 3/16/2025

This registration is issued by: IOWA DEPARTMENT OF HEALTH AND HUMAN SERVICES BUREAU OF CANNABIS REGULATION

321 E 12TH ST FL 6 DES MOINES, IA 50319-0083 Phone: 877-214-9313

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