

## Certificate of Analysis

# 20210709-01 3000mg CBD Tincture

Client: Nerovana



THC-FREE

**Isolate  
Hemp In MCT Oil**

1 fl oz / 30ml

**Total CBD** **3,002 mg/unit**

**Total THC** **ND**

**Total Cannabinoids** **3,002 mg/unit**

### Analysis Summary

Residual Pesticides	Pass
Residual Solvents & Processing Chemicals	Pass
Mycotoxins	Pass
Heavy Metals	Pass
Microbial Impurities	Pass
Water Activity	Pass

**Sample Name:**

20210709-01 3000mg CBD Tincture

**Matrix:**

Ingestible

**Description:**

Tincture

**Unit Mass:**

30 g per unit

**Sample ID:**

20411015-2

**Testing ID:**

NVANA-20411015-2

**Date Received:**

10/15/2021

Reviewed By:  
Arjay Evangelista  
Analyst

Approved By:  
Marie True, M.S.  
Laboratory Manager

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**References:** limit of quantitation (LOQ), not detected (ND), not tested (NT)

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## Cannabinoid Analysis

**Complete**

Analyte	LOQ (%)	Mass (%)	Mass (mg/g)	Mass (mg/unit)
CBDV	0.00025	ND	ND	ND
<b>CBD</b>	<b>0.00025</b>	<b>10.01</b>	<b>100.07</b>	<b>3001.98</b>
CBG	0.00025	ND	ND	ND
CBDA	0.00025	ND	ND	ND
CBN	0.00025	ND	ND	ND
Delta 9-THC	0.00025	ND	ND	ND
Delta 8-THC	0.00025	ND	ND	ND
CBC	0.00025	ND	ND	ND
THCA	0.00025	ND	ND	ND
<b>Total CBD</b>		<b>10.01</b>	<b>100.07</b>	<b>3001.98</b>
Total THC		ND	ND	ND
<b>Total Cannabinoids</b>		<b>10.01</b>	<b>100.07</b>	<b>3001.98</b>

Date Tested: 10/18/2021

Total THC = THCa \* 0.877 + d9-THC + d8-THC

Total CBD = CBDa \* 0.877 + CBD

## Pesticide Analysis

**Pass**

Analyte	LOQ (ppm)	Limit (ppm)	Mass (ppm)	Status
Abamectin	0.050	0.10	ND	Pass
Acephate	0.050	0.10	ND	Pass
Acequinocyl	0.050	0.10	ND	Pass
Acetamiprid	0.050	0.10	ND	Pass
Aldicarb	0.050	0.00	ND	Pass
Azoxystrobin	0.050	0.10	ND	Pass
Bifenazate	0.050	0.10	ND	Pass
Bifenthrin	0.050	3.00	ND	Pass
Boscalid	0.050	0.10	ND	Pass
Captan	0.050	0.70	ND	Pass
Carbaryl	0.050	0.50	ND	Pass
Carbofuran	0.050	0.00	ND	Pass
Chlorantraniliprole	0.050	10.00	ND	Pass
Chlordane	0.050	0.00	ND	Pass
Chlorfenapyr	0.050	0.00	ND	Pass
Chlorpyrifos	0.050	0.00	ND	Pass
Clofentezine	0.050	0.10	ND	Pass
Coumaphos	0.050	0.00	ND	Pass
Cyfluthrin	0.050	2.00	ND	Pass
Cypermethrin	0.050	1.00	ND	Pass
Daminozide	0.050	0.00	ND	Pass
DDVP	0.050	0.00	ND	Pass
Diazinon	0.050	0.10	ND	Pass
Dimethoate	0.050	0.00	ND	Pass
Dimethomorph	0.050	2.00	ND	Pass
Ethoprophos	0.050	0.00	ND	Pass
Etofenprox	0.050	0.00	ND	Pass
Etoxazole	0.050	0.10	ND	Pass
Fenhexamid	0.050	0.10	ND	Pass
Fenoxycarb	0.050	0.00	ND	Pass
Fenpyroximate	0.050	0.10	ND	Pass
Fipronil	0.050	0.00	ND	Pass
Flonicamid	0.050	0.10	ND	Pass
Fludioxonil	0.050	0.10	ND	Pass

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## Pesticide Analysis

**Pass**

Analyte	LOQ (ppm)	Limit (ppm)	Mass (ppm)	Status
Hexythiazox	0.050	0.10	ND	Pass
Imazalil	0.050	0.00	ND	Pass
Imidacloprid	0.050	5.00	ND	Pass
Kresoxim Methyl	0.050	0.10	ND	Pass
Malathion	0.050	0.50	ND	Pass
Metalaxyl	0.050	2.00	ND	Pass
Methiocarb	0.050	0.00	ND	Pass
Methomyl	0.050	1.00	ND	Pass
Methyl Parathion	0.050	0.00	ND	Pass
Mevinphos	0.050	0.00	ND	Pass
Myclobutanil	0.050	0.10	ND	Pass
Naled	0.050	0.10	ND	Pass
Oxamyl	0.050	0.50	ND	Pass
Paclobutrazol	0.050	0.00	ND	Pass
Pentachloronitrobenzene	0.050	0.10	ND	Pass
Permethrin	0.050	0.50	ND	Pass
Phosmet	0.050	0.10	ND	Pass
Piperonyl Butoxide	0.050	3.00	ND	Pass
Prallethrin	0.050	0.10	ND	Pass
Propiconazole	0.050	0.10	ND	Pass
Propoxur	0.050	0.00	ND	Pass
Pyrethrins	0.050	0.50	ND	Pass
Pyridaben	0.050	0.10	ND	Pass
Spinetoram	0.050	0.10	ND	Pass
Spinosad	0.050	0.10	ND	Pass
Spiromesifen	0.050	0.10	ND	Pass
Spirotetramat	0.050	0.10	ND	Pass
Spiroxamine	0.050	0.00	ND	Pass
Tebuconazole	0.050	0.10	ND	Pass
Thiacloprid	0.050	0.00	ND	Pass
Thiamethoxam	0.050	5.00	ND	Pass
Trifloxystrobin	0.050	0.10	ND	Pass

Date Tested: 10/21/2021

## Mycotoxins

**Pass**

Analyte	LOQ (µg/g)	Limit (µg/g)	Mass (µg/g)	Status
Aflatoxin B1	0.02	0.02	ND	Pass
Aflatoxin B2	0.02	0.02	ND	Pass
Aflatoxin G1	0.02	0.02	ND	Pass
Aflatoxin G2	0.02	0.02	ND	Pass
Ochratoxin A	0.02	0.02	ND	Pass

Date Tested: 10/21/2021

# Certificate of Analysis

## Residual Solvents Analysis

**Pass**

Analyte	LOQ (µg/g)	Limit (µg/g)	Mass (µg/g)	Status
Acetone	100	5000	ND	Pass
Acetonitrile	100	410	ND	Pass
Benzene	1	1	ND	Pass
Butane	100	5000	ND	Pass
Chloroform	1	1	ND	Pass
1,2-Dichloroethane	1	1	ND	Pass
Ethanol	100	5000	ND	Pass
Ethyl Acetate	100	5000	ND	Pass
Ethyl Ether	100	5000	ND	Pass
Ethylene Oxide	1	1	ND	Pass
Heptane	100	5000	ND	Pass
n-Hexane	100	290	ND	Pass
Isopropanol	100	5000	ND	Pass
Methanol	100	3000	ND	Pass
Methylene Chloride	1	1	ND	Pass
Pentane	100	5000	ND	Pass
Propane	100	5000	ND	Pass
Toluene	100	890	ND	Pass
Trichloroethylene	1	1	ND	Pass
Xylenes	100	2170	ND	Pass

Date Tested: 10/21/2021

## Heavy Metals Analysis

**Pass**

Analyte	LOQ (µg/g)	Limit (µg/g)	Mass (µg/g)	Status
Arsenic	0.050	0.200	ND	Pass
Cadmium	0.050	0.200	ND	Pass
Lead	0.125	0.500	ND	Pass
Mercury	0.025	0.100	ND	Pass

Date Tested: 10/21/2021

## Microbial Analysis

**Pass**

Test	Result (CFU/g)	Status
<i>Aspergillus flavus</i>	Absent / 1g	Pass
<i>Aspergillus fumigatus</i>	Absent / 1g	Pass
<i>Aspergillus niger</i>	Absent / 1g	Pass
<i>Aspergillus terreus</i>	Absent / 1g	Pass
Shiga-toxin producing <i>Escherichia coli</i>	Absent / 1g	Pass
<i>Salmonella</i>	Absent / 1g	Pass

Date Tested: 10/22/2021

CFU = Colony Forming Units

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## Water Activity

**Pass**

Test	Limit (Aw)	Result (Aw)	Status
Water Activity	0.65	0.51	Pass

Date Tested: 10/20/2021

**Method References:** **Testing Location**

<p>Cannabinoid Profile (UNODC)</p> <p>Official Methods of Analysis, Method 2018.11.AOAC INTERNATIONAL (modified), Lukas Vaclavik, Frantisek Benes, Alex Krmela, Veronika Svobodova, Jana Hajsolva, and Katerina Mastovska, "Quantification of Cannabinoids in Cannabis Dried Plant Materials, Concentrates, and Oils Liquid Chromatography-Diode Array Detection Technique with Optional Mass Spectrometric Detection," First Action Method, Journal of AOAC International, Future Issue</p> <p>United Nations Office on Drugs and Crime - Recommended methods for identification and analysis of cannabis and cannabis products</p>	<p><b>FESA Labs - Santa Ana, CA</b></p>
<p>Multi-Residue Pesticide Analysis - (AOAC_200701)</p> <p>Official Methods of Analysis, AOAC Official Method 2007.01, Pesticide Residues in Foods by Acetonitrile Extraction and Partitioning with Magnesium Sulfate, AOAC INTERNATIONAL (modified).</p> <p>CEN Standard Method EN 15662: Food of plant origin - Determination of pesticide residues using GC-MS and/or LC-MS/MS following acetonitrile extraction/partitioning and clean-up by dispersive SPE - QuEChERS method.</p>	<p><b>FESA Labs - Santa Ana, CA</b></p>
<p>Residual Solvents Analysis - 20 compounds (USP_467)</p> <p>USP current revision, Chapter 62. United States Pharmacopeia, 38nd Rev. - National Formulary 33th Ed., Method &lt;467&gt;, USP Convention, Inc., Rockville, MD (2015) (modified).</p>	<p><b>FESA Labs - Santa Ana, CA</b></p>
<p>Mycotoxins Analysis - 5 compounds (FDA_MYC)</p> <p>Determination of Mycotoxins in Corn, Peanut Butter and Wheat Flour Using Stable Isotope Dilution Assay (SIDA) and Liquid Chromatography-Tandem Mass Spectrometry (LC-MS/MS) (modified).</p>	<p><b>FESA Labs - Santa Ana, CA</b></p>
<p>Heavy Metals Analysis - 4 elements (EPA_200.8)</p> <p>Methods for the Determination of Metals in Environmental Standards - Supplement 1, EPA-600/R-94-111, May 1994.</p> <p>"Determination of Metals and Trace Elements in Water and Wastes by Inductively Coupled Plasma-Mass Spectrometry", USEPA Method 200.8, Revision 5.1, EMMC Version (modified).</p>	<p><b>FESA Labs - Santa Ana, CA</b></p>
<p>Microbial Analysis - (FDABAM_4A_5_18)</p> <p>U.S. Food and Drug Administration, Bacteriological Analytical Manual, Chapter 4A, Diarrheagenic Escherichia coli; Chapter 5, Salmonella; Chapter 18, Yeasts, Molds and Mycotoxins (modified).</p>	<p><b>FESA Labs - Santa Ana, CA</b></p>
<p>Water Activity Analysis - (AOAC_978_18)</p> <p>Official Methods of Analysis, Method 978.18.AOAC INTERNATIONAL, Water Activity of Canned Vegetables (modified).</p>	<p><b>FESA Labs - Santa Ana, CA</b></p>

**Testing Location:**

**FESA Labs**  
2002 S. Grand Ave., Suite A  
Santa Ana, CA 92705  
(714) 549-5050  
[www.fesalabs.com](http://www.fesalabs.com)