



Certificate of Analysis



Sample Name: 500 mg CBD Natural Tincture with Melatonin **FESA Lab Sample:** 2200713-1

Manufacturer:		Receipt Date:	2020-07-13
Lot Number:	O20_346	Receipt Condition:	Ambient Temperature
Sample Serving Size:	N/A	Login Date:	2020-07-13
Description:	Tincture	Date Started:	2020-07-13
Manufacture Date:	N/A		

Analysis	LOQ (%)	Mass (%)	Mass (mg/g)	Mass (mg/unit)
Cannabinoid Profile				
CBDV	0.00025	ND	ND	ND
CBG	0.00025	ND	ND	ND
CBD	0.00025	0.991	9.91	584.69
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
Total THC		ND	ND	ND
Total CBD		0.991	9.91	584.69
Total Cannabinoids		0.991	9.91	584.69

1 unit = 59 mL

Pesticide-Residue Analysis	LOQ (ppm)	Limit (ppm)	Result (ppm)	Pass / Fail
Abamectin	0.01	0.10	ND	Pass
Bifenazate	0.01	0.10	ND	Pass
Bifenthrin	0.01	3.00	ND	Pass
Boscalid	0.01	0.10	ND	Pass
Ethoprophos	0.02	0.02	ND	Pass
Etoxazole	0.01	0.10	ND	Pass
Imidacloprid	0.01	5.00	ND	Pass
Myclobutanil	0.01	0.10	ND	Pass
Piperonyl Butoxide	0.01	3.00	ND	Pass
Pyrethrins	0.01	0.50	ND	Pass
Spinosad	0.01	0.10	ND	Pass
Spiromesifen	0.01	0.10	ND	Pass
Spirotetramat	0.01	0.10	ND	Pass

Residual Solvents	LOQ (ppm)	Limit (ppm)	Result (ppm)	Pass / Fail
Acetone	100	5000	ND	Pass
Acetonitrile	100	410	ND	Pass
Butane	100	5000	ND	Pass
Benzene	1	1	ND	Pass
Chloroform	1	1	ND	Pass
1,2-Dichloroethane	1	1	ND	Pass



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Residual Solvents

	LOQ (ppm)	Limit (ppm)	Result (ppm)	Pass / Fail
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

Heavy Metals

	LOQ (ppm)	Limit (ppm)	Result (ppm)	Pass / Fail
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

Mycotoxins


	LOQ (ppm)	Limit (ppm)	Result (ppm)	Pass / Fail
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

Microbials

	Result (CFU/g)	Pass / Fail
Aerobic Plate Count	Absent / 1g	Pass
Escherichia Coli and Coliforms	Absent / 1g	Pass
Salmonella	Absent / 1g	Pass
Yeast and Mold Count	Absent / 1g	Pass



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Terpenes

	LOQ (%)	Result (%)
Camphene	0.05	ND
3-Carene	0.05	ND
β-Caryophyllene	0.05	ND
p-Cymene	0.05	ND
Eucalyptol	0.05	ND
Fenchol	0.05	ND
α-Humulene	0.05	ND
δ-Limonene	0.05	ND
Linalool	0.05	ND
β-Myrcene	0.05	ND
Nerolidol	0.05	0.10
α-Pinene	0.05	ND
Terpinolene	0.05	ND



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Method References:	Testing Location
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Cannabinoid Profile (UNODC) FESALabs - Santa Ana, CA

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

United Nations Office on Drugs and Crime - Recommended methods for identification and analysis of cannabis and cannabis products

Multi-Residue Analysis - (AOAC_200701) FESALabs - Santa Ana, CA

Official Methods of Analysis, AOAC Official Method 2007.01, Pesticide Residues in Foods by Acetonitrile Extraction and Partitioning with Magnesium Sulfate, AOAC INTERNATIONAL (modified).

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.

List of the tested pesticides and their limits of quantification (LOQs) are available upon request.

Residual Solvents Analysis - 20 compounds (USP_467) FESALabs - Santa Ana, CA

USP current revision, Chapter 62.

United States Pharmacopeia, 38nd Rev. - National Formulary 33th Ed., Method <467>, USP Convention, Inc., Rockville, MD (2015). (Modified).

Metals Analysis - 4 elements (EPA_200.8) FESALabs - Santa Ana, CA

Methods for the Determination of Metals in Environmental Standards - Supplement 1, EPA-600/R-94-111, May 1994.

"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.

Mycotoxins Analysis - 5 compounds (FDA_MYC) FESALabs - Santa Ana, CA

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)

Aerobic Plate Count (USP_61) FESALabs - Santa Ana, CA

USP current revision, Chapter 61.

To satisfy the requirements of the USP, the suitability of Test Method must be completed on each matrix.

**Based on the suitability of the test method results, conditions stipulated are adequate for detecting the presence of the specified microorganism.

E. Coli (USPE_62) FESALabs - Santa Ana, CA

USP current revision, Chapter 62.

To satisfy the requirements of the USP, the suitability of Test Method must be completed on each matrix.

**Based on the suitability of the test method results, conditions stipulated are adequate for detecting the presence of the specified microorganism.

Yeast and Mold Count (AOAC_201405) FESALabs - Santa Ana, CA

Official Methods of Analysis, Method 2014.05.AOAC INTERNATIONAL

Salmonella enterica USP (USPS_62) FESALabs - Santa Ana, CA

USP current revision, Chapter 62.

To satisfy the requirements of the USP, the suitability of Test Method must be completed on each matrix.

**Based on the suitability of the test method results, conditions stipulated are adequate for detecting the presence of the specified microorganism.



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Testing Location:

FESA Labs

2002 S. Grand Ave., Suite B
Santa Ana, CA 92705
714-549-5050

Nader Nasralla - Lab Manager

ND = not detected or less than limit of quantitation (LOQ). LOQ for cannabinoid profile analysis is 0.00025%.

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