

Certificate of Analysis

Sample ID: 2201027-5 Date Issued: 11/2/2020 Batch Result: PASS

4500 mg CBD Orange Tincture

Manufacturer: The Trusted Lab



Summary Total THC ND Total CBD 15.85% Total Cannabinoids 16.12%

Sample Name: 4500 mg CBD Orange Tincture

Matrix: Ingestible **Description:** Tincture Lot Number: O20_494 Manufacture Date: N/A

Unit Mass: 30 g per unit

Sample ID: 2201027-5 Testing ID: 2201027-5

Date Received: 10/27/2020

Receipt Condition: Ambient Temperature

Reviewed By: Arjay Evangelista, Analyst

Date: 11/2/2020

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

Date: 11/2/2020

Received By:

Date:

Quality Engineer

Maries

Cannabinoid Analysis Complete

Analyte	LOQ (%)	Mass (%)	Mass (mg/g)	Mass (mg/unit)
CBDV	0.00025	0.136	1.36	40.68
CBD	0.00025	15.849	158.49	4754.80
CBG	0.00025	0.140	1.40	41.99
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		15.849	158.49	4754.80
Total Cannabinoids		16.125	161.25	4837.48

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

Total CBD = CBDa * 0.877 + CBD



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Pesticide Analysis	Pass

Analyte	LOQ (ppm)	Limit (ppm)	Mass (ppm)	Status
Abamectin	0.050	0.100	ND	Pass
Bifenazate	0.050	0.100	ND	Pass
Bifenthrin	0.050	3.000	ND	Pass
Boscalid	0.050	0.100	ND	Pass
Ethoprophos	0.050	0.020	ND	Pass
Etoxazole	0.050	0.100	ND	Pass
Imidacloprid	0.050	5.000	ND	Pass
Myclobutanil	0.050	0.100	ND	Pass
Piperonyl Butoxide	0.050	3.000	ND	Pass
Pyrethrins	0.050	0.500	ND	Pass
Spinosad	0.050	0.100	ND	Pass
Spiromesifen	0.050	0.100	ND	Pass
Spirotetramat	0.050	0.100	ND	Pass

Date Tested: 10/28/2020

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	
sopropanol	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: 10/27/2020

Mycotoxins Pass

Analyte	LOQ (µg/g)	Limit (µg/g)	Mass (μg/g)	Status
Aflatoxin B1	0.020	0.020	ND	Pass
Aflatoxin B2	0.020	0.020	ND	Pass
Aflatoxin G1	0.020	0.020	ND	Pass
Aflatoxin G2	0.020	0.020	ND	Pass
Ochratoxin A	0.020	0.020	ND	Pass

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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: 10/30/2020					
Microbial Analysis					Pass
Test			Result (CFU/g)	Status	
Aerobic Plate Count			Absent / 1g	Pass	
Escherichia coli and Coliforms			Absent / 1g	Pass	
Salmonella			Absent / 1g	Pass	
Yeast and Mold Count			Absent / 1g	Pass	

Water Activity Pass

Test	Limit (Aw)	Result (Aw)	Status	
Water Activity	0.65	0.50	Pass	

Date Tested: 11/2/2020

Date Tested: 11/2/2020 CFU = Colony Forming Units

Terpenoid Analysis Complete



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Headspace Gas Chromatography (HS-GC-FID) was used to semiquantitatively analyze terpene contents. LOQs are available upon request.



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Method References: **Testing Location**

Cannabinoid Profile (UNODC)

FESA Labs - 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 Pesticide Analysis - (AOAC_200701)

FESA Labs - 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/ partifitioning and clean-up by dispersive SPE - QuEChERS method.

Heavy Metals Analysis - 4 elements (EPA_200.8)

FESA Labs - 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 (modified).

Residual Solvents Analysis - 20 compounds (USP 467)

FESA Labs - 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).

Mycotoxins Analysis - 5 compounds (FDA_MYC)

FESA Labs - 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).

Microbial Analysis - (FDABAM_4A_5_18)

FESA Labs - Santa Ana, CA

U.S. Food and Drug Administration, Bacteriological Analytical Manual, Chapter 4A, Diarrheagenic Escherichia coli; Chapter 5, Salmonella; Chapter 18, Yeasts, Molds and Myctoxins (modified)

Water Activity Analysis - (AOAC 978 18)

FESA Labs - Santa Ana, CA

Official Methods of Analysis, Method 978.18.AOAC INTERNATIONAL, Water Activity of Canned Vegetables (modified).

Testing Location:

FESA Labs

2002 S. Grand Ave., Suite A Santa Ana, CA 92705 714-549-5050 fesalabs.com

ND = not detected or less than limit of quantitation (LOQ).

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