

Certificate of Analysis

1500 mg Orange Tincture

Manufacturer: The Trusted Lab



Summary

Total THC **ND**
Total CBD **5.08%**
Total Cannabinoids **5.17%**

Sample Name: 1500 mg Orange Tincture
Matrix: Ingestible
Description: Tincture
Lot Number: O20_433
Manufacture Date: N/A
Unit Mass: 30 g per unit

Reviewed By: Arjay Evangelista, Analyst
Date: 9/4/2020

Approved By: Marie True, M.S., Laboratory Manager
Date: 9/4/2020

Sample ID: 2200901-2
Testing ID: 2200901-2
Date Received: 9/1/2020
Receipt Condition: Ambient Temperature

Received By:
Quality Engineer
Date:

Cannabinoid Analysis

Complete

Analyte	LOQ (%)	Mass (%)	Mass (mg/g)	Mass (mg/unit)
CBDV	0.00025	0.037	0.37	11.031
CBD	0.00025	5.077	50.77	1523.079
CBG	0.00025	0.053	0.53	16.009
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		5.077	50.769	1523.08
Total Cannabinoids		5.167	51.671	1550.12

Date Tested: 9/3/2020

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	0.05	0.10	ND	Pass
Bifenazate	0.05	0.10	ND	Pass
Bifenthrin	0.05	3.00	ND	Pass
Boscalid	0.05	0.10	ND	Pass
Ethoprophos	0.05	0.02	ND	Pass
Etoxazole	0.05	0.10	ND	Pass
Imidacloprid	0.05	5.00	ND	Pass
Myclobutanil	0.05	0.10	ND	Pass
Piperonyl Butoxide	0.05	3.00	ND	Pass
Pyrethrins	0.05	0.50	ND	Pass
Spinosad	0.05	0.10	ND	Pass
Spiromesifen	0.05	0.10	ND	Pass
Spirotetramat	0.05	0.10	ND	Pass

Date Tested: 9/1/2020

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
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: 9/1/2020

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: 9/1/2020

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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: 9/2/2020

Microbial Analysis

Pass

Test	Result (CFU/g)	Status
Aerobic Plate Count	Absent / 1g	Pass
<i>Escherichia coli</i> and Coliforms	Absent / 1g	Pass
Salmonella	Absent / 1g	Pass
Yeast and Mold Count	Absent / 1g	Pass

Date Tested: 9/4/2020

CFU = Colony Forming Units

Water Activity



Pass

Test	Limit (Aw)	Result (Aw)	Status
Water Activity	0.65	0.49	Pass

Date Tested: 9/3/2020

Terpenoid Analysis

Complete

Analyte	LOQ (%)	Result (%)
Camphene	0.05	ND
3-Carene	0.05	ND
β-Caryophyllene	0.05	0.08 
p-Cymene	0.05	ND
Eucalyptol	0.05	ND
Fenchol	0.05	ND
α-Humulene	0.05	ND
δ-Limonene	0.05	0.28 
Linalool	0.05	<LOQ
β-Myrcene	0.05	<LOQ
Nerolidol	0.05	ND
α-Pinene	0.05	<LOQ
Terpinolene	0.05	ND

Date Tested: 9/1/2020

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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>	FESA Labs - Santa Ana, CA
<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>	FESA Labs - Santa Ana, CA
<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>	FESA Labs - Santa Ana, CA
<p>Residual Solvents Analysis - 20 compounds (USP_467)</p> <p>USP current revision, Chapter 62.</p> <p>United States Pharmacopeia, 38nd Rev. - National Formulary 33th Ed., Method <467>, USP Convention, Inc., Rockville, MD (2015) (modified).</p>	FESA Labs - Santa Ana, CA
<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>	FESA Labs - Santa Ana, CA
<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>	FESA Labs - Santa Ana, CA
<p>Water Activity Analysis - (AOAC_978_18)</p> <p>Official Methods of Analysis, Method 978.18.AOAC INTERNATIONAL (modified), Water Activity of Canned Vegetables (modified).</p>	FESA Labs - Santa Ana, CA

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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