

Consumer Report

Product: CBD Oil Berry Hibiscus, 1 Fl Oz

Manufacture Date: October 21, 2020

Lot No: PB20210F-232

Expiration Date: October 31, 2022

Batch Size: 1,020 units

Product testing performed by: Eurofins

Lot Test Results: Passes all tests. Product exceeds standards for quality and purity.

Content and Potency

Hemp Identification

	Specification	Result
Identity (<i>Cannabis sativa</i> L.)	Conforms	Conforms

Cannabidiol (CBD) and Total Phytocannabinoids

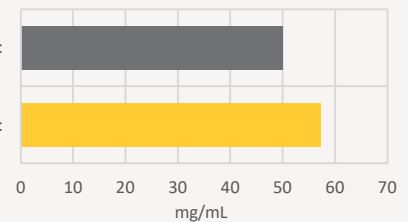
Cannabidiol (CBD) Content Specification: 50.0 mg/mL

Cannabidiol (CBD) Content Result: 57.3 mg/mL

Total Phytocannabinoid Content: 60.5 mg/mL

Cannabidiol (CBD) Content Claim:

Cannabidiol (CBD) Content Result:



Regulatory Standards

Tetrahydrocannabinol (THC) + Tetrahydrocannabinolic Acid (THCA)

	Specification	Result
Finished Good Content	<0.05%	<0.05%

Purity Analysis

Contaminants, Toxins, and Impurities

	Specification	Result
Pesticides	No Detect	No Detect
Solvent Residue	Conforms to USP <467>	Conforms to USP <467>

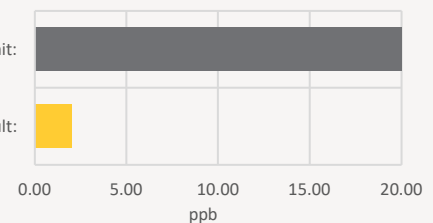
Aflatoxin (total)

Maximum Allowable Limit: 20.00 ppb

Test Result: <2.00 ppb

Maximum Allowable Limit:

Test Result:

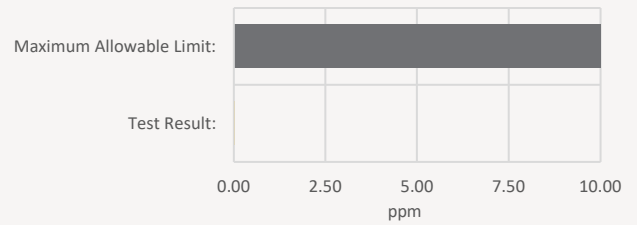


Purity Analysis (cont'd)

Arsenic

Maximum Allowable Limit: 10.00 ppm

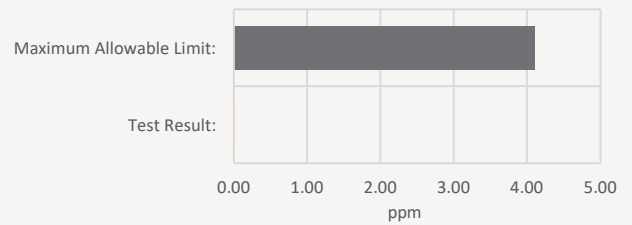
Test Result: <0.01 ppm



Cadmium

Maximum Allowable Limit: 4.10 ppm

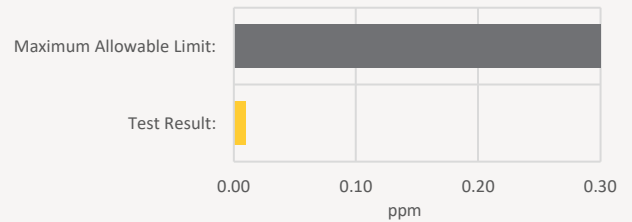
Test Result: <0.01 ppm



Mercury

Maximum Allowable Limit: 0.30 ppm

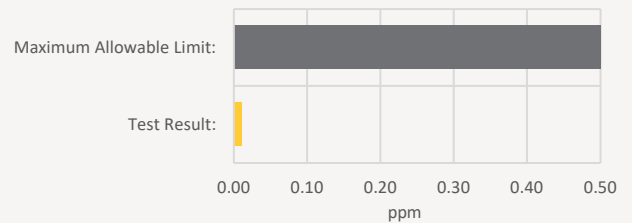
Test Result: <0.01 ppm



Lead

Maximum Allowable Limit: 0.50 ppm

Test Result: <0.01 ppm



Confidence is healthy.

For over 35 years, patients and clinicians have trusted Integrative Therapeutics for our dedication to purity, potency, and accuracy.

We go above and beyond our own internal standards, working with third party organizations to test our products to ensure they're of the highest quality, and have set high standards for both employee safety and product purity in our manufacturing facilities.

Learn more about our story at www.integrativepro.com/who-we-are

Certificate of Analysis

Sample Name:	CBD Tincture	Eurofins Sample:	9979195
Project ID	LA-20201026-0070	Receipt Date	28-Oct-2020
PO Number	PONIC-1872	Receipt Condition	Ambient temperature
Lot Number	PB2010F-232	Login Date	26-Oct-2020
Sample Serving Size		Date Started	29-Oct-2020
Description	PB2010F-232 Tincture FX-056	Sampled	Sample results apply as received
		Online Order	11129-1459E45D

Analysis

Result

Density by Gravimetric Analysis

Density 0.957 g/mL

Industrial Hemp Cannabinoid Profile

CBDVA	<0.00250 %
CBDV	0.107 %
CBDA	<0.00250 %
CBGA	<0.00250 %
CBG	0.204 %
CBD	5.73 %
THCV	<0.00250 %
CBN	0.00353 %
Delta 9-THC	0.00287 %
Delta 8-THC	<0.00500 %
THCA	<0.00250 %
CBC	0.00271 %
Total Cannabinoids	6.05 %
Total THC (THC + (THCA x 0.877))	0.00287 %
Total CBD (CBD + (CBDA x 0.877))	5.73 %

Aerobic Plate Count *

Aerobic Plate Count <100 CFU/mL

Bacillus cereus Plate Count on BACARA agar *

Bacillus cereus (Presumptive) <100 CFU/mL
Atypical Growth Present <100 CFU/mL

E. coli *

Escherichia Coli Absent /10 mL

Enterobacteriaceae (Bile-Tolerant Gram-Negative Bacteria) *

Enterobacterial Count <10 MPN/mL

Salmonella USP *

Salmonella Absent /10 mL

Staphylococcus *

Staphylococcus Aureus Absent /10 mL

Yeast and Mold Count *

* This analysis or component is not ISO accredited.

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Analysis	Result
Yeast and Mold Count *	
Yeast Count	<100 CFU/mL
Mold Count	<100 CFU/mL
Preparatory Testing of Nutritional and Dietary Supplements *	
Staphylococcus Suitability Result	Pass**
Elements by ICP Mass Spectrometry	
Arsenic	<10.0 ppb
Cadmium	<5.00 ppb
Lead	<5.00 ppb
Mercury	<5.00 ppb
Coliform Count *	
Coliform Plate Count	<10 CFU/mL
Specific Gravity <USP 841> *	
Page Number	7137
Temperature	25.0 °C
Specific Gravity	0.96

Analysis	Limit	Result	Pass/Fail
Mycotoxins in Raw Materials			
Aflatoxin B1		<0.500 ppb	
Aflatoxin B2		<0.500 ppb	
Aflatoxin G1		<0.500 ppb	
Aflatoxin G2		<0.500 ppb	
Ochratoxin A	20 ppb	<1.00 ppb	Pass
Sum of B1 B2 G1 and G2	20 ppb	<2.00 ppb	Pass
Residual Solvent Analysis in Cannabis and Hemp Matrices			
1,2-Dichloroethane		<1.0 ppm	
2-Propanol		<500 ppm	
Acetone		<200 ppm	
Acetonitrile		<200 ppm	
Benzene		<1.0 ppm	
Chloroform		<1.0 ppm	

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Analysis	Limit	Result	Pass/Fail
Residual Solvent Analysis in Cannabis and Hemp Matrices			
Ethanol		<500 ppm	
Ethyl Acetate		<500 ppm	
Ethyl Ether		<500 ppm	
Ethylene Oxide		<25.0 ppm	
Methanol		<500 ppm	
Methylene Chloride		<1.0 ppm	
n-Hexane		<30.0 ppm	
Propane		<1000 ppm	
Toluene		<90.0 ppm	
Trichloroethylene		<1.0 ppm	
Summed Group 1 (Butanes)			
Isobutane (2-Methylpropane)		<500 ppm	
n-Butane		<500 ppm	
Sum of Butanes		<1000 ppm	
Summed Group 2 (Heptanes)			
2,2,3-Trimethylbutane		<50.0 ppm	
2,2-Dimethylpentane		<50.0 ppm	
2,3-Dimethylpentane		<50.0 ppm	
2,4-Dimethylpentane		<50.0 ppm	
2-Methylhexane		<50.0 ppm	
3,3-Dimethylpentane		<50.0 ppm	
3-Ethylpentane		<50.0 ppm	
3-Methylhexane		<50.0 ppm	
n-Heptane		<50.0 ppm	
Sum of Heptanes		<450 ppm	
Summed Group 3 (Petroleum Ether)			
2,2-Dimethylbutane		<25.0 ppm	
2,3-Dimethylbutane		<25.0 ppm	
2-Methylpentane		<25.0 ppm	
3-Methylpentane		<25.0 ppm	

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Analysis	Limit	Result	Pass/Fail
Residual Solvent Analysis in Cannabis and Hemp Matrices			
n-Pentane		<25.0 ppm	
Sum of Petroleum Ether		<125 ppm	
Summed Group 4 (Xylenes)			
Xylenes-1 (Ethylbenzene)		<40.0 ppm	
Xylenes-2 (m- p-Xylene)		<140 ppm	
Xylenes-3 (o-Xylene)		<20.0 ppm	
Sum of Xylenes		<200 ppm	
Multi-Residue Analysis for hemp products - 60+ compounds			
Abamectin		<0.30 mg/kg	
Aldicarb		<0.10 mg/kg	
Aldicarb sulfone (Aldoxycarb)		<0.10 mg/kg	
Aldicarb sulfoxide		<0.10 mg/kg	
Azoxystrobin		<0.10 mg/kg	
Bifenazate		<0.10 mg/kg	
Bifenthrin		<0.10 mg/kg	
Carbaryl		<0.10 mg/kg	
Carbofuran		<0.10 mg/kg	
Carbofuran-3-hydroxy-		<0.10 mg/kg	
Chlorantraniliprole		<0.10 mg/kg	
Chlordane, cis-		<0.10 mg/kg	
Chlordane, trans-		<0.10 mg/kg	
Chlorfenapyr		<0.10 mg/kg	
Chlorpyrifos		<0.10 mg/kg	
Coumaphos		<0.10 mg/kg	
Cyfluthrin		Non-analyzable	
Cypermethrin		<0.10 mg/kg	
Cyproconazole (2 diastereoisomers)		<0.10 mg/kg	
Cyprodinil		<0.10 mg/kg	
Dichlorvos		<0.10 mg/kg	
Diclobutrazol		<0.10 mg/kg	

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Analysis	Limit	Result	Pass/Fail
Multi-Residue Analysis for hemp products - 60+ compounds			
Dipropetryn		<0.10 mg/kg	
Disulfoton		<0.10 mg/kg	
Endosulfan I (alpha-isomer)		<0.20 mg/kg	
Endosulfan II (beta-isomer)		<0.20 mg/kg	
Endosulfan sulfate		<0.20 mg/kg	
Epoxiconazole		<0.10 mg/kg	
Ethiofencarb		<0.10 mg/kg	
Etofenprox		<0.10 mg/kg	
Etoxazole		<0.10 mg/kg	
Fenoxycarb		<0.10 mg/kg	
Fenpropathrin		<0.10 mg/kg	
Fenvalerate/Esfenvalerate (sum of isomers)		<0.20 mg/kg	
Fipronil		<0.10 mg/kg	
Fipronil desulfinyl		<0.10 mg/kg	
Fipronil sulfone		<0.10 mg/kg	
Imazalil		<0.10 mg/kg	
Imidacloprid		<0.10 mg/kg	
Malathion		<0.10 mg/kg	
Methiocarb		<0.10 mg/kg	
Methiocarb sulfone		<0.10 mg/kg	
Methiocarb sulfoxide		<0.10 mg/kg	
Methomyl		<0.10 mg/kg	
Metolachlor		<0.10 mg/kg	
Mevinphos (E- and Z-isomers)		<0.10 mg/kg	
Myclobutanil		<0.10 mg/kg	
Naled (Dibrom)		<0.10 mg/kg	
Paclobutrazol		<0.10 mg/kg	
Permethrin (sum of isomers)		<0.10 mg/kg	
Propoxur		<0.10 mg/kg	
Pyrethrum (total)		<1.0 mg/kg	

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Analysis	Limit	Result	Pass/Fail
Multi-Residue Analysis for hemp products - 60+ compounds			
Spinetoram (spinosyns J and L)		<0.10 mg/kg	
Spinosad (spinosyns A and D)		<0.10 mg/kg	
Spirodiclofen		<0.10 mg/kg	
Spiromesifen		<0.10 mg/kg	
Spirotetramat		<0.10 mg/kg	
Spiroxamine (2 diastereoisomers)		<0.10 mg/kg	
Tebuconazole		<0.10 mg/kg	
Thiabendazole		<0.10 mg/kg	
Thiabendazole-5-hydroxy-		<0.10 mg/kg	
Thiacloprid		<0.10 mg/kg	
Trifloxystrobin		<0.10 mg/kg	
Multi-Residue Analysis for hemp products (1-5 Compounds from 500+ Compound list)			
Ethoprophos (Ethoprop)		<0.10 mg/kg	

Method References

Testing Location

Aerobic Plate Count (USPC2021)

Food Integ. Innovation-Madison NE
2102 Wright Street Madison, WI 53704 USA

USP Current revision, Chapter 2021.

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

**Based on the results of the preparatory test, the detection limit stipulated is adequate for the enumeration of the specified microorganisms.

Bacillus cereus Plate Count on BACARA agar (BCERPC_BAC)

Food Integ. Innovation-Madison NE
2102 Wright Street Madison, WI 53704 USA

Tallent, S. M., Rhodehamel, E. J., Harmon, S. M., and Bennett, R. W., "Chapter 14 - *Bacillus cereus*," *Bacteriological Analytical Manual*, Eighth Ed., Revision A, U. S. Food and Drug Administration: Silver Spring, MD (1998), Revised Feb 2012.

* This analysis or component is not ISO accredited.

Printed: 12-Nov-2020 3:01 pm

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Certificate of Analysis

Method References	Testing Location
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Coliform Count (COLIPC)

Food Integ. Innovation-Madison NE

2102 Wright Street Madison, WI 53704 USA

Compendium of Methods for the Microbiological Examination of Foods: Enterobacteriaceae, Coliforms, and Escherichia coli as Quality and Safety Indicators, Chapter 8, 4th Edition, 2001.

Density by Gravimetric Analysis (SPGP_S)

Food Integrity Innovation-Madison

3301 Kinsman Blvd Madison, WI 53704 USA

NIST Handbook 133 - Checking the Net Contents of Packaged Goods, 2015 Edition (Modified)

E. coli (USPE2022)

Food Integ. Innovation-Madison NE

2102 Wright Street Madison, WI 53704 USA

USP Current revision, Chapter 2022.

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

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

Elements by ICP Mass Spectrometry (ICP_MS_S)

Food Integrity Innovation-Madison

3301 Kinsman Blvd Madison, WI 53704 USA

Official Methods of Analysis, Method 2011.19 and 993.14, AOAC INTERNATIONAL, (Modified).

Paquette, L.H., Szabo, A., Thompson, J.J., "Simultaneous Determination of Chromium, Selenium, and Molybdenum in Nutritional Products by Inductively Coupled Plasma/Mass Spectrometry: Single-Laboratory Validation," Journal of AOAC International, 94(4): 1240 - 1252 (2011).

Enterobacteriaceae (Bile-Tolerant Gram-Negative Bacteria) (USPN2021)

Food Integ. Innovation-Madison NE

2102 Wright Street Madison, WI 53704 USA

USP Current revision, Chapter 2021.

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

**Based on the results of the preparatory test, the detection limit stipulated is adequate for the enumeration of the specified microorganisms.

Certificate of Analysis

Method References	Testing Location
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Industrial Hemp Cannabinoid Profile (IHCBD_S)

Food Integrity Innovation-Madison

3301 Kinsman Blvd Madison, WI 53704 USA

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

Multi-Residue Analysis for hemp products - 60+ compounds (PEST_HEMP)

Food Integrity Innovation-Madison

3301 Kinsman Blvd Madison, WI 53704 USA

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.

Multi-Residue Analysis for hemp products (1-5 Compounds from 500+ Compound list) (PEST_HEMP)

Food Integrity Innovation-Madison

3301 Kinsman Blvd Madison, WI 53704 USA

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.

Mycotoxins in Raw Materials (MYCO_REG_S)

Food Integrity Innovation-Madison

3301 Kinsman Blvd Madison, WI 53704 USA

Varga, E., Glauner, T., Koppen, R., Mayer, K., Sulyok, M., Schumacher, R., Krska, R. and Berthiller, F., "Stable isotope dilution assay for the accurate determination of mycotoxins in maize by UHPLC-MS/MS," Analytical and BioAnalytical Chemistry, 402:2675-2686 (2012).

Preparatory Testing of Nutritional and Dietary Supplements (USPA_PT)

Food Integ. Innovation-Madison NE

2102 Wright Street Madison, WI 53704 USA

Residual Solvent Analysis in Cannabis and Hemp Matrices (CANN_SOL_S)

Food Integrity Innovation-Madison

3301 Kinsman Blvd Madison, WI 53704 USA

Internally Developed Method

Certificate of Analysis

Method References**Testing Location****Salmonella USP (USPS2022)****Food Integ. Innovation-Madison NE**

2102 Wright Street Madison, WI 53704 USA

USP Current revision, Chapter 2022.

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

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

Specific Gravity <USP 841> (MISC_PROX)**Food Integrity Innovation-Madison**

3301 Kinsman Blvd Madison, WI 53704 USA

United States Pharmacopeia, 43rd Revision - National Formulary 38th Edition. USP Convention. Rockville, MD (2019). (Modified).

Staphylococcus (USPA2022)**Food Integ. Innovation-Madison NE**

2102 Wright Street Madison, WI 53704 USA

USP Current revision, Chapter 2022.

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

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

Yeast and Mold Count (USPM2021)**Food Integ. Innovation-Madison NE**

2102 Wright Street Madison, WI 53704 USA

USP Current revision, Chapter 2021.

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

**Based on the results of the preparatory test, the detection limit stipulated is adequate for the enumeration of the specified microorganisms.

Certificate of Analysis

Testing Location(s)**Released on Behalf of Eurofins by****Food Integrity Innovation-Madison**

Eurofins Food Chemistry Testing Madison, Inc.
3301 Kinsman Blvd
Madison WI 53704
800-675-8375

**Edward Ladwig - President Eurofins Food
Chemistry Testing Madison**



2918.01

Food Integ. Innovation-Madison NE

Eurofins Food Chemistry Testing US, Inc.
2102 Wright Street
Madison WI 53704
800-675-8375

Shannon Jacoby - Business Unit Manager

These results apply only to the items tested. This certificate of analysis shall not be reproduced, except in its entirety, without the written approval of Eurofins.