



## CERTIFICATE OF ANALYSIS

### **Chocolate Mint - FULL SPECTRUM HEMP EXTRACT – 10MG CBD**

Bottle Lot Number: 00431200001  
Bulk Batch Number: HW030220B  
Manufacture Date: November 2021  
Best By Date: December 2023  
Strength: 10mg CBD per milliliter (ml) / 600mg CBD per 60ml (2oz) bottle

<b><u>Cannabinoid:</u></b>	<b><u>mg/g (oil potency)</u></b>	<b><u>mg/ml (Serving potency)</u></b>	<b><u>% weight</u></b>
CBD	10.89	10.33	1.089
CBDV	<LOQ	<LOQ	<LOQ
CBDa	1.19	1.13	0.119
CBG	<LOQ	<LOQ	<LOQ
CBGa	<LOQ	<LOQ	<LOQ
CBC	0.45	0.43	0.045
CBN	<LOQ	<LOQ	<LOQ
$\Delta^9$ -THC	0.51	<0.48	0.051
THCa	<LOQ	<LOQ	<LOQ
<b>Total THC</b>	<b>0.51</b>	<b>0.48</b>	<b>0.051</b>
<b>Total CBD</b>	<b>11.53</b>	<b>10.94</b>	<b>1.153</b>
<b>Total Cannabinoids</b>	<b>13.04</b>	<b>12.37</b>	<b>1.304</b>

*\*This product contains less than 0.3% THC per hemp regulations*

Sunsoil tests each batch of oil at three third-party ISO accredited laboratories to ensure product quality and potency. The information provided above is derived from said third-party lab results and shall be considered effective only for the lot with which the information is being provided. In addition to Cannabinoid profile Sunsoil regularly tests for terpenes, residual solvents, pesticides, heavy metals, and microbials to ensure pureness and quality of raw material inputs – representative results can be found on our website. ND indicates “None Detected”. <LOQ indicates “Below Limit of Quantification”.

• MADE IN VERMONT •



SUNSOIL®

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Best By Date: December 2023  
Strength: 10mg CBD per milliliter (ml) / 600mg CBD per 60ml (2oz) bottle

<b>Heavy Metals</b>	<b>Pass/Fail</b>	<b>Specification</b>
Arsenic	Pass	USP <2232>
Cadmium	Pass	USP <2232>
Lead	Pass	USP <2232>
Mercury	Pass	USP <2232>

<b>Microbiological Testing</b>	<b>Pass/Fail</b>	<b>Specification</b>
Aerobic Plate Count	Pass	USP <2023>
Yeast and Mold	Pass	USP <2023>
E.coli	Pass	Not Detected
Salmonella	Pass	Not Detected

<b>Glyphosate Testing</b>	<b>Pass/Fail</b>	<b>Specification</b>
Glyphosate Testing	Pass	<10 PPB

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180 Battery Street, Suite 250, Burlington, VT 05401 • [info@sunsoil.com](mailto:info@sunsoil.com)





## Certificate of Analysis

### Sunsoil

180 Battery Street; Suite 250  
Burlington Vermont 05401

<b>Sample Name:</b>	<b>HW030220B-Final</b>	<b>Eurofins Sample:</b>	<b>9513798</b>
<b>Project ID</b>	SUNSOIL-20200512-0031	<b>Receipt Date</b>	14-May-2020
<b>PO Number</b>	cvd	<b>Receipt Condition</b>	Ambient temperature
<b>Lot Number</b>	HW030220B-Final	<b>Login Date</b>	12-May-2020
<b>Sample Serving Size</b>		<b>Date Started</b>	18-May-2020
		<b>Sampled</b>	Sample results apply as received
		<b>Online Order</b>	15701-137D9021

#### Analysis

#### Result

##### Salmonella BAM

Salmonella

Not Detected

#### Method References

#### Testing Location

##### Salmonella BAM (SALA)

##### EML New Berlin

2345 S 170th St New Berlin, WI 53151 USA

Bacteriological Analytical Manual, Chapter 5, 8th Edition, 2006. Food and Drug Administration, AOAC International:  
Gaithersburg, Maryland. Modified.

#### Testing Location(s)

#### Released on Behalf of Eurofins by

##### Food Integ. Innovation-Madison NE

##### Shannon Jacoby - Business Unit Manager

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

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Analysis	Result
<b>Yeast and Mold Plate Count</b>	
Yeast Plate Count	<10 CFU/g
Mold Plate Count	<10 CFU/g

Method References	Testing Location
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<b>Yeast and Mold Plate Count (YM_SPRD)</b>	<b>EML New Berlin</b> 2345 S 170th St New Berlin, WI 53151 USA
Compendium of Methods for the Microbiological Examination of Foods, Yeasts and Molds, 4th Edition, Chapter 20, 2001, (Modified)	

Testing Location(s)	Released on Behalf of Eurofins by
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<b>Food Integ. Innovation-Madison NE</b>	<b>Shannon Jacoby - Business Unit Manager</b>
Eurofins Food Chemistry Testing US, Inc. 2102 Wright Street Madison WI 53704 800-675-8375	

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May 19, 2020

**SUNSOIL**

Jacob Goldstein  
 180 Battery Street  
 Burlington, VT 05401

Order No. 513394  
 Sample No. 1050589

**SAMPLE INFORMATION**

**Description** HW030220B-Final  
**Lot Number** HW030220B-Final  
**Category (Type)** Edible  
**Received** May 14, 2020

**ANALYTICAL RESULTS**

**Analysis** Residual Solvent Screen ✔ Pass  
**Instrument** Gas Chromatography Mass Spectrometry (GC/MS)  
**Method** USP OVI<467>  
**Analysis Date** May 14, 2020 to May 19, 2020

Analyte	LOD / LOQ (µg/g)	Findings (µg/g)	Limit (µg/g)	Status
1,2-Dichloroethane	0.10/1.00	ND	1.0	Pass
Acetone	11/150	ND	5000	Pass
Acetonitrile	1/12	ND	410	Pass
Benzene	0.10/1.00	ND	1.0	Pass
n-Butane	130/400	ND	5000	Pass
Chloroform	0.10/1.00	ND	1.0	Pass
Ethanol	13/200	ND	5000	Pass
Ethyl Acetate	5/80	ND	5000	Pass
Ethyl Ether	17/50	ND	5000	Pass
Ethylene Oxide	0.50/1.00	ND	1.0	Pass
n-Heptane	15/100	ND	5000	Pass
n-Hexane	2/10	ND	290	Pass
Isopropyl Alcohol	5/100	ND	5000	Pass
Methanol	3/50	<LOQ	3000	Pass
Methylene Chloride	0.50/1.00	ND	1.0	Pass
n-Pentane	26/150	ND	5000	Pass
Propane	170/510	ND	5000	Pass
Toluene	2/30	ND	890	Pass
Total Xylenes	5/90	ND	2170	Pass
Trichloroethylene	0.10/1.00	ND	1.0	Pass

Reported by  
**Anresco, Inc.**

ND = None Detected  
 <LOQ = Below Limit of Quantitation  
 <LOD = Below Limit of Detection




Darryl Cudia  
 Analyst

May 19, 2020

If there are any questions with this report, please contact "[compliance@anresco.com](mailto:compliance@anresco.com)".

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May 27, 2020

**SUNSOIL**

Jacob Goldstein  
180 Battery Street  
Burlington, VT 05401

Order No. 513394  
Sample No. 1050589

## SAMPLE INFORMATION

Description HW030220B-Final  
Lot Number HW030220B-Final  
Category (Type) Edible  
Received May 14, 2020

## ANALYTICAL RESULTS

Method Analysis Date May 14, 2020 to May 27, 2020

Analyte	Method	Finding	LOD	LOQ
Glyphosate	Anresco MF 2P030	None Detected	2 ppb	5 ppb
AMPA	Anresco MF 2P030	None Detected	2 ppb	5 ppb

Reported by  
**Anresco, Inc.**

  


Cathy Cheng  
Analyst

May 27, 2020

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#### Analysis

#### Result

#### Aerobic Plate Count

Standard Plate Count

100 est. cfu/g

#### Method References

#### Testing Location

#### Aerobic Plate Count (APC)

FDA BAM Ch. 3

AOAC 966.23

CMMEF Ch. 8

#### EML New Berlin

2345 S 170th St New Berlin, WI 53151 USA

#### Testing Location(s)

#### Released on Behalf of Eurofins by

#### Food Integ. Innovation-Madison NE

Shannon Jacoby - Business Unit Manager

Eurofins Food Chemistry Testing US, Inc.  
2102 Wright Street  
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Analysis	Result
<b>E.coli and Coliforms (Petrifilm)</b>	
Total coliforms	<10 CFU/g
Escherichia Coli	<10 CFU/g

Method References	Testing Location
<b>E.coli and Coliforms (Petrifilm) (ECCOLIPET)</b>	<b>EML New Berlin</b>
AOAC 991.14	2345 S 170th St New Berlin, WI 53151 USA

Testing Location(s)	Released on Behalf of Eurofins by
<b>Food Integ. Innovation-Madison NE</b>	<b>Shannon Jacoby - Business Unit Manager</b>
Eurofins Food Chemistry Testing US, Inc. 2102 Wright Street Madison WI 53704 800-675-8375	

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#### Analysis

#### Result

##### Elements by ICP Mass Spectrometry

Arsenic	<10.0 ppb
Cadmium	<5.00 ppb
Lead	<5.00 ppb
Mercury	<5.00 ppb

#### Method References

#### Testing Location

##### 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).

#### Testing Location(s)

#### Released on Behalf of Eurofins by

##### Food Integrity Innovation-Madison

Edward Ladwig - Director

Eurofins Food Chemistry Testing Madison, Inc.  
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Analysis	Limit	Result	Pass/Fail
<b>Mycotoxins in Raw Materials</b>			
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

Method References	Testing Location
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**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).

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Analysis	Limit	Result
<b>Multi-Residue Analysis for hemp products - 60+ compounds</b>		
Metolachlor		<0.10 mg/kg
Pyrethrum (total)		<1.0 mg/kg
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		<0.10 mg/kg
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
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

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Analysis	Limit	Result
<b>Multi-Residue Analysis for hemp products - 60+ compounds</b>		
Ethiofencarb		<0.10 mg/kg
Etofenprox		<0.10 mg/kg
Etozazole		<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
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
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



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Analysis	Limit	Result
<b>Multi-Residue Analysis for hemp products - 60+ compounds</b>		
Thiabendazole-5-hydroxy-		<0.10 mg/kg
Thiacloprid		<0.10 mg/kg
Trifloxystrobin		<0.10 mg/kg

Method References	Testing Location
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**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.

Testing Location(s)	Released on Behalf of Eurofins by
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