

Certificate of Analysis

Sunsoil

180 Battery Street; Suite 250
Burlington Vermont 05401

Sample Name:	HW280420F	Eurofins Sample:	9551996
Project ID	SUNSOIL-20200527-0033	Receipt Date	01-Jun-2020
PO Number	CVD	Receipt Condition	Ambient temperature
Lot Number	HW280420F	Login Date	27-May-2020
Sample Serving Size	1 g	Date Started	02-Jun-2020
		Sampled	Sample results apply as received
		Online Order	15701-13916F4E

Analysis	Result	Result per Serving
Industrial Hemp Cannabinoid Profile		
CBDVA	<0.00250 %	<0.0250 mg/Serving Size
CBDV	0.0125 %	0.125 mg/Serving Size
CBDA	0.159 %	1.59 mg/Serving Size
CBGA	<0.00250 %	<0.0250 mg/Serving Size
CBG	0.0405 %	0.405 mg/Serving Size
CBD	2.30 %	23.0 mg/Serving Size
THCV	<0.00250 %	<0.0250 mg/Serving Size
CBN	0.00349 %	0.0349 mg/Serving Size
Delta 9-THC	0.0804 %	0.804 mg/Serving Size
Delta 8-THC	0.00848 %	0.0848 mg/Serving Size
THCA	<0.00250 %	<0.0250 mg/Serving Size
CBC	0.110 %	1.10 mg/Serving Size
THCVA	<0.00250 %	<0.0250 mg/Serving Size
CBNA	<0.00250 %	<0.0250 mg/Serving Size
CBCA	0.00820 %	0.0820 mg/Serving Size
CBL	0.00336 %	0.0336 mg/Serving Size
Total Cannabinoids	2.73 %	27.3 mg/Serving Size
Total THC (THC + (THCA x 0.877))	0.0804 %	0.804 mg/Serving Size
Total CBD (CBD + (CBDA x 0.877))	2.44 %	24.4 mg/Serving Size

Method References

Testing Location

Industrial Hemp Cannabinoid Profile (IHCBDS)

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

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

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



2918.01

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Analysis	Result	Result per Serving
E.coli and Coliforms (Petrifilm)		
Total coliforms	<10 CFU/g	
Escherichia Coli	<10 CFU/g	

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

Testing Location(s)	Released on Behalf of Eurofins by
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Food Integrity Innovation-Madison	Edward Ladwig - Director
Eurofins Food Chemistry Testing Madison, Inc. 3301 Kinsman Blvd Madison WI 53704 800-675-8375	

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Analysis	Result	Result per Serving
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)

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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

Method References

Testing Location

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
Multi-Residue Analysis for hemp products - 60+ compounds		
Abamectin		<0.10 mg/kg
Aldicarb		<0.05 mg/kg
Aldicarb sulfone (Aldoxycarb)		<0.05 mg/kg
Aldicarb sulfoxide		<0.05 mg/kg
Azoxystrobin		<0.05 mg/kg
Bifenazate		<0.05 mg/kg
Bifenthrin		<0.05 mg/kg
Carbaryl		<0.05 mg/kg
Carbofuran		<0.05 mg/kg
Carbofuran-3-hydroxy-		<0.05 mg/kg
Chlorantraniliprole		<0.05 mg/kg
Chlordane, cis-		<0.05 mg/kg
Chlordane, trans-		<0.05 mg/kg
Chlorfenapyr		<0.05 mg/kg
Chlorpyrifos		<0.05 mg/kg
Coumaphos		<0.05 mg/kg
Cyfluthrin		<0.05 mg/kg
Cypermethrin		<0.05 mg/kg
Cyproconazole (2 diastereoisomers)		<0.05 mg/kg
Cyprodinil		<0.05 mg/kg
Dichlorvos		<0.05 mg/kg
Diclobutrazol		<0.05 mg/kg
Dipropetryn		<0.05 mg/kg
Disulfoton		<0.05 mg/kg
Endosulfan I (alpha-isomer)		<0.05 mg/kg
Endosulfan II (beta-isomer)		<0.05 mg/kg
Endosulfan sulfate		<0.05 mg/kg
Epoxiconazole		<0.05 mg/kg
Ethiofencarb		<0.05 mg/kg
Etofenprox		<0.05 mg/kg

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Analysis	Limit	Result
Multi-Residue Analysis for hemp products - 60+ compounds		
Etoxazole		<0.05 mg/kg
Fenoxycarb		<0.05 mg/kg
Fenpropathrin		<0.05 mg/kg
Fenvalerate/Esfenvalerate (sum of isomers)		<0.05 mg/kg
Fipronil		<0.05 mg/kg
Fipronil desulfinyl		<0.05 mg/kg
Fipronil sulfone		<0.05 mg/kg
Imazalil		<0.05 mg/kg
Imidacloprid		<0.05 mg/kg
Malathion		<0.05 mg/kg
Methiocarb		<0.05 mg/kg
Methiocarb sulfone		<0.05 mg/kg
Methiocarb sulfoxide		<0.05 mg/kg
Methomyl		<0.05 mg/kg
Mevinphos (E- and Z-isomers)		<0.05 mg/kg
Myclobutanil		<0.05 mg/kg
Naled (Dibrom)		<0.05 mg/kg
Paclobutrazol		<0.05 mg/kg
Permethrin (sum of isomers)		<0.05 mg/kg
Propoxur		<0.05 mg/kg
Spinetoram (spinosyns J and L)		<0.05 mg/kg
Spinosad (spinosyns A and D)		<0.05 mg/kg
Spirodiclofen		<0.05 mg/kg
Spiromesifen		<0.05 mg/kg
Spirotetramat		<0.05 mg/kg
Spiroxamine (2 diastereoisomers)		<0.05 mg/kg
Tebuconazole		<0.05 mg/kg
Thiabendazole		<0.05 mg/kg
Thiabendazole-5-hydroxy-		<0.05 mg/kg
Thiacloprid		<0.05 mg/kg

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Analysis	Limit	Result
Multi-Residue Analysis for hemp products - 60+ compounds		
Trifloxystrobin		<0.05 mg/kg
Metolachlor		<0.05 mg/kg
Pyrethrum (total)		<0.50 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
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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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Food Integrity Innovation-Madison	Edward Ladwig - Director
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Eurofins Food Chemistry Testing Madison, Inc.
3301 Kinsman Blvd
Madison WI 53704
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Analysis	Result	Result per Serving
Salmonella BAM		
Salmonella	Not Detected	

Method References	Testing Location
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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.

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Analysis	Result	Result per Serving
Aerobic Plate Count		
Standard Plate Count	<10 CFU/g	

Method References	Testing Location
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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

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		Online Order	15701-13916F4E

Analysis	Result	Result per Serving
Yeast and Mold Plate Count		
Yeast Plate Count	<10 CFU/g	
Mold Plate Count	<10 CFU/g	

Method References	Testing Location
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Yeast and Mold Plate Count (YM_SPRD)

EML New Berlin

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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Food Integrity Innovation-Madison

Edward Ladwig - Director

Eurofins Food Chemistry Testing Madison, Inc.
3301 Kinsman Blvd
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June 05, 2020

SUNSOIL

Jacob Goldstein
180 Battery Street
Burlington, VT 05401

Order No. 513652
Sample No. 1051348

SAMPLE INFORMATION

Description HW280420F
Lot Number HW280420F
Category (Type) Edible
Received June 01, 2020

ANALYTICAL RESULTS

Analysis Residual Solvent Screen ✔ Pass
Instrument Gas Chromatography Mass Spectrometry (GC/MS)
Method USP OVI<467>
Analysis Date June 01, 2020 to June 05, 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




George Wharam
Analyst

June 05, 2020

If there are any questions with this report, please contact "compliance@anresco.com".

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June 08, 2020

SUNSOIL

Jacob Goldstein
180 Battery Street
Burlington, VT 05401

Order No. 513652
Sample No. 1051348

SAMPLE INFORMATION

Description HW280420F
Lot Number HW280420F
Category (Type) Edible
Received June 01, 2020

ANALYTICAL RESULTS

Method Analysis Date June 01, 2020 to June 08, 2020

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

Reported by
Anresco, Inc.




Cathy Cheng
Analyst

June 08, 2020



SUNSOIL®

CERTIFICATE OF ANALYSIS

CBD COCONUT OIL - FULL SPECTRUM HEMP EXTRACT – 20MG CBD

Bottle Lot: 00403965001
Bulk Batch: HW280420F
Manufacture Date: August 2021
Best By Date: August 2023
Strength: 20mg CBD per milliliter (ml) / 600mg CBD per 30ml (1oz) jar

<u>Cannabinoid:</u>	<u>mg/g (oil potency)</u>	<u>mg/ml (oil potency)</u>	<u>% weight</u>
CBD	20.52	18.31	2.052
CBDV	0.125	0.112	0.013
CBDa	1.59	1.42	0.159
CBG	0.405	0.361	0.041
CBGa	<0.025	<0.022	<0.003
CBC	1.10	0.981	0.110
CBN	0.0349	0.031	0.004
Δ ⁹ -THC	0.804	0.717	0.0804
THCa	<0.025	<0.022	<0.003
Total THC	0.804	0.717	0.0080
Total CBD	24.4	21.77	2.440
Total Cannabinoids	27.3	24.35	2.730

**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 •

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SUNSOIL®

CERTIFICATE OF ANALYSIS

CBD COCNUT OIL - FULL SPECTRUM HEMP EXTRACT – 20MG CBD

Bottle Lot Number: 00403965001
Batch Number: HW280420F
Manufacture Date: August 2021
Best By Date: August 2023
Strength: 20mg CBD per milliliter (ml) / 600mg CBD per 30ml (1oz) jar

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

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

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

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, heavy metals and microbial contaminants, Sunsoil regularly tests for terpenes, residual solvents, and pesticides 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”.

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