

Certificate of Analysis

Sunsoil

180 Battery Street; Suite 250
Burlington Vermont 05401

Sample Name:	Final Blend 1	Eurofins Sample:	10626651
Project ID	SUNSOIL-20210527-0022	Receipt Date	02-Jun-2021
PO Number	05272021	Receipt Condition	Ambient temperature
Lot Number	HW080421C	Login Date	27-May-2021
Sample Serving Size	1 g	Date Started	03-Jun-2021
		Sampled	Sample results apply as received
		Online Order	15701-15720A4E

Analysis

Result

Industrial Hemp Cannabinoid Profile

CBDVA	<0.0250 mg/g
CBDVA	<0.00250 %
CBDV	0.0897 mg/g
CBDV	0.00897 %
CBDA	0.480 mg/g
CBDA	0.0480 %
CBGA	<0.0250 mg/g
CBGA	<0.00250 %
CBG	0.385 mg/g
CBG	0.0385 %
CBD	2.14 %
CBD	21.4 mg/g
THCV	<0.0250 mg/g
THCV	<0.00250 %
CBN	0.00561 %
CBN	0.0561 mg/g
Delta 9-THC	0.682 mg/g
Delta 9-THC	0.0682 %
Delta 8-THC	<0.00500 %
Delta 8-THC	<0.0500 mg/g
THCA	<0.0250 mg/g
THCA	<0.00250 %
CBC	0.109 %
CBC	1.09 mg/g
THCVA	<0.0250 mg/g
THCVA	<0.00250 %
CBNA	<0.0250 mg/g
CBNA	<0.00250 %
CBCA	0.00313 %
CBCA	0.0313 mg/g
CBL	0.00371 %
CBL	0.0371 mg/g

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Analysis

Result

Industrial Hemp Cannabinoid Profile

Total Cannabinoids	2.43 %
Total Cannabinoids	24.3 mg/g
Total THC (THC + (THCA x 0.877))	0.0682 %
Total THC (THC + (THCA x 0.877))	0.682 mg/g
Total CBD (CBD + (CBDA x 0.877))	2.18 %
Total CBD (CBD + (CBDA x 0.877))	21.8 mg/g

Method References

Testing Location

Industrial Hemp Cannabinoid Profile (IHCBD_S)

Food Integrity Innovation-Madison
6304 Ronald Reagan Ave Madison, WI 53704 USA

Official Methods of Analysis, AOAC 2018.11, AOAC International, Gaithersburg, MD (Modified).

Testing Location(s)

Released on Behalf of Eurofins by

Food Integrity Innovation-Madison

Edward Ladwig - President Eurofins Food
Chemistry Testing Madison

Eurofins Food Chemistry Testing Madison, Inc.
6304 Ronald Reagan Ave
Madison WI 53704
800-675-8375



2918.01

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Analysis

Result

Aerobic Plate Count

Standard Plate Count

<10 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 Integrity Innovation-Madison

Edward Ladwig - President Eurofins Food Chemistr

Eurofins Food Chemistry Testing Madison, Inc.
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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
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Elements by ICP Mass Spectrometry (ICP_MS_S)

Food Integrity Innovation-Madison
6304 Ronald Reagan Ave 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).

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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
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Mycotoxins in Raw Materials (MYCO_REG_S)

Food Integrity Innovation-Madison
6304 Ronald Reagan Ave 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		<0.30 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
Ethiofencarb		<0.10 mg/kg
Etofenprox		<0.10 mg/kg

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Analysis	Limit	Result
Multi-Residue Analysis for hemp products - 60+ compounds		
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
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
Multi-Residue Analysis for hemp products - 60+ compounds		
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
6304 Ronald Reagan Ave 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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Food Integrity Innovation-Madison

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

Eurofins Food Chemistry Testing Madison, Inc.
6304 Ronald Reagan Ave
Madison WI 53704
800-675-8375



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Analysis	Result
Salmonella BAM	
Salmonella	Not Detected /25 g

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
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 Eurofins Food Chemistry Testing Madison, Inc. 6304 Ronald Reagan Ave Madison WI 53704 800-675-8375	Edward Ladwig - President Eurofins Food Chemistr
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June 04, 2021

SUNSOIL
Jacob Goldstein
180 Battery Street
Burlington, VT 05401

Order No. 524127
Sample No. 1084876

SAMPLE INFORMATION

Description Final
Lot Number HW080421C
Category Concentrate
Received June 01, 2021

ANALYTICAL RESULTS

Analysis Residual Solvent Screen ✔ Pass
Instrument Gas Chromatography Mass Spectrometry (GC/MS)
Method USP OVI<467>
Analysis Date June 01, 2021 to June 04, 2021

Analyte	LOD/LOQ (ppm)	Findings (ppm)	Limit (ppm)	Status
1,2-Dichloroethane	0.1/1	ND	1	Pass
Acetone	50/150	ND	5000	Pass
Acetonitrile	4/12	ND	410	Pass
Benzene	0.1/1	ND	1	Pass
n-Butane	48/160	ND	5000	Pass
Chloroform	0.1/1	ND	1	Pass
Ethanol	67/200	ND	5000	Pass
Ethyl acetate	27/80	ND	5000	Pass
Ethyl ether	17/50	ND	5000	Pass
Ethylene oxide	0.5/1	ND	1	Pass
n-Heptane	1/4	ND	5000	Pass
n-Hexane	2/10	ND	290	Pass
Isopropyl alcohol	33/100	ND	5000	Pass
Methanol	50/150	ND	3000	Pass
Methylene chloride	0.5/1	ND	1	Pass
n-Pentane	2/6	ND	5000	Pass
Propane	10/33	ND	5000	Pass
Toluene	10/30	ND	890	Pass
Total xylenes (ortho-, meta-, para-)	30/90	ND	2170	Pass
Trichloroethylene	0.1/1	ND	1	Pass

Reported by
Anresco, Inc.

ND = None Detected




Jordean Vargas
Analyst

June 04, 2021

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

June 11, 2021

SUNSOIL
Jacob Goldstein
180 Battery Street
Burlington, VT 05401

Order No. 524128
Sample No. 1084883

SAMPLE INFORMATION

Description Final
Lot Number HW080421C
Received June 01, 2021

ANALYTICAL RESULTS

Analysis Glyphosate
Instrument LC-MS/MS
Method Anresco MF 2P030
Analysis Date June 01, 2021 to June 11, 2021

Analyte	LOD / LOQ (ppb)	Findings (ppb)
Glyphosate	2/5	None Detected
AMPA	2/5	None Detected

Reported by
Anresco, Inc.

ND = None Detected



Cathy Cheng
Senior Analyst

June 11, 2021

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



SUNSOIL®

CERTIFICATE OF ANALYSIS

CINNAMON - FULL SPECTRUM HEMP EXTRACT – 20MG CBD

Bottle Lot: 00431204001
Bulk Batch Number: HW080421C
Manufacture Date: October 2021
Best By Date: October 2023
Strength: 20mg CBD per milliliter (ml) /1200 mg per 60ml (2oz bottle) / 300mg CBD per 15ml (1/2oz) bottle

<u>Cannabinoid:</u>	<u>mg/g (oil potency)</u>	<u>mg/ml (oil potency)</u>	<u>% weight</u>
CBD	21.4	20.32	2.14
CBDV	0.0897	0.085	0.009
CBDa	0.480	0.456	0.048
CBG	0.385	0.366	0.039
CBGa	<0.25	<.024	<0.0025
CBC	1.09	1.030	0.109
CBN	0.682	0.648	0.068
Δ^9 -THC	0.666	0.632	0.0666
THCa	<0.25	<0.024	<0.0025
Total THC	0.682	0.648	0.068
Total CBD	21.80	20.70	2.180
Total Cannabinoids	24.30	23.08	2.430

LOD = 0.4 mg/g or 0.04% or 0.38 mg/ml

**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 •

180 Battery Street, Suite 250, Burlington, VT 05401 • info@sunsoil.com



SUNSOIL®

CERTIFICATE OF ANALYSIS

CINNAMON- FULL SPECTRUM HEMP EXTRACT – 20MG CBD

Bottle Lot Number: 00431204001
Batch Number: HW080421C
Manufacture Date: October 2021
Best By Date: October 2023
Strength: 20mg CBD per milliliter (ml) /1200 mg per 60ml (2oz bottle) / 300mg CBD per 15ml (1/2oz) bottle

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

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• MADE IN VERMONT •

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