



SUNSOIL®

CERTIFICATE OF ANALYSIS

Unflavored - FULL SPECTRUM HEMP EXTRACT – 20MG CBD

Bottle Lot Number: 00444357001
Bulk Batch Number: HW020721F
Manufacture Date: July 2021
Best By Date: July 2023
Strength: 20mg CBD per milliliter (ml) / 1200mg CBD per 60ml (2oz) bottle

<u>Cannabinoid:</u>	<u>mg/g (oil potency)</u>	<u>mg/ml (oil potency)</u>	<u>% weight</u>
CBD	21.82	20.68	2.182
CBDV	ND	ND	ND
CBDa	<LOQ	<LOQ	<LOQ
CBG	<LOQ	<LOQ	<LOQ
CBGa	ND	ND	ND
CBC	1.10	1.04	0.110
CBN	ND	ND	ND
Δ^9 -THC	<LOQ	<LOQ	<LOQ
THCa	ND	ND	ND
Total THC	ND	ND	ND
Total CBD	22.92	21.72	2.292
Total Cannabinoids	22.92	21.72	2.292

**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

July 23, 2021

SUNSOIL
Jacob Goldstein
180 Battery Street
Burlington, VT 05401

Order No. 525642
Sample No. 1090094

SAMPLE INFORMATION

Description Final Blend 1
Lot Number HW020721F
PO# 07192021
Category Non-Inhalable Concentrate
Received July 21, 2021

ANALYTICAL RESULTS

Analysis Cannabinoid Profile
Instrument Liquid Chromatography Diode Array Detector (LC-DAD)
Method MF12D012
Analysis Date July 21, 2021 to July 23, 2021

Cannabinoid	mg/g	%
Δ8-THC	ND	ND
Δ9-THC	<LOQ	<LOQ
Δ9-THCA	ND	ND
THCV	ND	ND
THCVA	ND	ND
CBD	21.82	2.182
CBDA	<LOQ	<LOQ
CBC	1.10	0.110
CBCA	ND	ND
CBDV	ND	ND
CBG	<LOQ	<LOQ
CBGA	ND	ND
CBN	ND	ND
Total THC	ND	ND
Total CBD	21.82	2.182
Total Cannabinoids	22.92	2.292
Total Active Cannabinoids	22.92	2.292

Reported by
Anresco, Inc.




Ryan Low
Analyst

July 23, 2021

Limit of Detection: 0.27 mg/g
Limit of Quantitation: 0.8 mg/g
ND = None Detected
<LOQ = Below Limit of Quantitation
<LOD = Below Limit of Detection

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

August 03, 2021

SUNSOIL

Jacob Goldstein
180 Battery Street
Burlington, VT 05401

Order No. 525644
Sample No. 1090097

SAMPLE INFORMATION

Description Final Blend 1
Lot Number HW020721F
PO# 07192021
Category Non-Inhalable Concentrate
Received July 21, 2021

ANALYTICAL RESULTS

Analysis Glyphosate
Instrument LC-MS/MS
Method Anresco MF 2P030
Analysis Date July 21, 2021 to August 03, 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

August 03, 2021

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

Certificate of Analysis

Sunsoil

180 Battery Street; Suite 250
Burlington Vermont 05401

Sample Name:	Final Blend	Eurofins Sample:	10778701
Project ID	SUNSOIL-20210719-0042	Receipt Date	21-Jul-2021
PO Number	07192021	Receipt Condition	Ambient temperature
Lot Number	HW020721F	Login Date	19-Jul-2021
Sample Serving Size	1 mg	Date Started	22-Jul-2021
		Sampled	Sample results apply as received
		Number Composited	3
		Online Order	15701-15B8181C

Analysis	Result
Industrial Hemp Cannabinoid Profile	
CBNA	<0.0250 %
CBCA	<0.0250 %
CBL	<0.0250 %
Salmonella BAM *	
Salmonella	Negative /25 g
Yeast and Mold Plate Count *	
Yeast Plate Count	<10 CFU/g
Mold Plate Count	<10 CFU/g
Aerobic Plate Count *	
Standard Plate Count	<10 CFU/g
Elements by ICP Mass Spectrometry	
Arsenic	<10.0 ppb
Cadmium	<5.00 ppb
Lead	<5.00 ppb
Mercury	<5.00 ppb
E.coli and Coliforms (Petrifilm) *	
Total coliforms	<10 CFU/g
Escherichia Coli	<10 CFU/g

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
Multi-Residue Analysis for hemp products - 60+ compounds			
Abamectin		<0.30 mg/kg	
Aldicarb		<0.10 mg/kg	

* This analysis or component is not ISO accredited.

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Sample Name:	Final Blend	Eurofins Sample:	10778701
Project ID	SUNSOIL-20210719-0042	Receipt Date	21-Jul-2021
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Sample Serving Size	1 mg	Date Started	22-Jul-2021
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		Number Composited	3
		Online Order	15701-15B8181C

Analysis	Limit	Result	Pass/Fail
Multi-Residue Analysis for hemp products - 60+ compounds			
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	
Etoazole		<0.10 mg/kg	

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PO Number	07192021	Receipt Condition	Ambient temperature
Lot Number	HW020721F	Login Date	19-Jul-2021
Sample Serving Size	1 mg	Date Started	22-Jul-2021
		Sampled	Sample results apply as received
		Number Composited	3
		Online Order	15701-15B8181C

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

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PO Number	07192021	Receipt Condition	Ambient temperature
Lot Number	HW020721F	Login Date	19-Jul-2021
Sample Serving Size	1 mg	Date Started	22-Jul-2021
		Sampled	Sample results apply as received
		Number Compositated	3
		Online Order	15701-15B8181C

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

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

E.coli and Coliforms (Petrifilm) (ECCOLIPET)

AOAC 991.14

EML New Berlin

2345 S 170th St New Berlin, WI 53151 USA

Elements by ICP Mass Spectrometry (ICP_MS_S)

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).

Food Integrity Innovation-Madison

6304 Ronald Reagan Ave Madison, WI 53704 USA

Industrial Hemp Cannabinoid Profile (IHCBD_S)

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

Food Integrity Innovation-Madison

6304 Ronald Reagan Ave Madison, WI 53704 USA

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Certificate of Analysis

Sunsoil

180 Battery Street; Suite 250
Burlington Vermont 05401

Method References

Testing Location

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.

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).

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.

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

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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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. Measurement uncertainty for individual analyses can be obtained upon request.

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July 23, 2021

SUNSOIL
Jacob Goldstein
180 Battery Street
Burlington, VT 05401

Order No. 525642
Sample No. 1090094

SAMPLE INFORMATION

Description Final Blend 1
Lot Number HW020721F
PO# 07192021
Category Non-Inhalable Concentrate
Received July 21, 2021

ANALYTICAL RESULTS

Analysis Residual Solvent Screen ✔ Pass
Instrument Gas Chromatography Mass Spectrometry (GC/MS)
Method USP OVI<467>
Analysis Date July 21, 2021 to July 23, 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

July 23, 2021

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

July 23, 2021

SUNSOIL
Jacob Goldstein
180 Battery Street
Burlington, VT 05401

Order No. 525642
Sample No. 1090094

SAMPLE INFORMATION

Description Final Blend 1
Lot Number HW020721F
PO# 07192021
Category Non-Inhalable Concentrate
Received July 21, 2021

ANALYTICAL RESULTS

Analysis Water Activity
Instrument Decagon
Method MF 14G051
Analysis Date July 21, 2021 to July 23, 2021

Analyte	Findings	Limit	Status
Water Activity	0.47	0.85	Pass

Reported by
Anresco, Inc.

ND = None Detected



Eric Tam
Senior Chemist

July 23, 2021

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