



CERTIFICATE OF ANALYSIS

Softgels - FULL SPECTRUM HEMP EXTRACT – 20MG CBD

Bottle Lot Number: 13083-50341
Batch Number: HW060422A
Manufacture Date: July 2022
Best By Date: July 2025
Strength: 20mg CBD per softgel /300mg CBD per 15ct bottle/ 600mg CBD per 30ct bottle/1,800mg CBD per 90ct bottle

<u>Cannabinoid:</u>	<u>mg/g (oil potency)</u>	<u>mg/softgel (softgel potency)</u>	<u>% by weight</u>
CBD	42.90	21.45	4.29
CBDV	0.28	0.14	0.03
CBDa	1.96	0.98	0.20
CBG	0.80	0.40	0.08
CBGa	<LOQ	<LOQ	<LOQ
CBC	1.99	1.00	0.20
CBN	<0.25	<LOQ	<LOQ
Δ^9 -THC	1.33	0.67	0.13
THCa	<LOQ	<LOQ	<LOQ
Total THC	1.33	0.67	0.13
Total CBD	44.60	22.30	4.46
Total Cannabinoids	49.30	24.65	4.93

**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".



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Batch Number: HW060422A
Manufacture Date: July 2022
Best By Date: July 2025
Strength: 20mg CBD per softgel /300mg CBD per 15ct bottle/ 600mg CBD per 30ct bottle/1,800mg CBD per 90ct 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

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".

• MADE IN VERMONT •

Certificate of Analysis

Sunsoil

180 Battery Street; Suite 250
Burlington Vermont 05401

Sample Name:	HW060422A	Eurofins Sample:	11645268
Project ID	SUNSOIL-20220412-0012	Receipt Date	14-Apr-2022
PO Number		Receipt Condition	Ambient temperature
Sample Serving Size	1 g	Login Date	12-Apr-2022
		Date Started	14-Apr-2022
		Sampled	Sample results apply as received
		Online Order	15701-17184C78

Analysis

Result

Industrial Hemp Cannabinoid Profile

CBDVA	None detected at detection limit of 0.0042 %
CBDVA	None detected at detection limit of 0.0042 %
CBDV	0.283 mg/g
CBDV	0.0283 %
CBDA	0.196 %
CBDA	1.96 mg/g
CBGA	None detected at detection limit of 0.0042 %
CBGA	None detected at detection limit of 0.0042 %
CBG	0.801 mg/g
CBG	0.0801 %
CBD	42.9 mg/g
CBD	4.29 %
THCV	None detected at detection limit of 0.0083 %
THCV	None detected at detection limit of 0.0083 %
CBN	<0.0250 %
CBN	<0.250 mg/g
Delta 9-THC	1.33 mg/g
Delta 9-THC	0.133 %
Delta 8-THC	None detected at detection limit of 0.0167 %
Delta 8-THC	None detected at detection limit of 0.0167 %
THCA	None detected at detection limit of 0.0167 %
THCA	None detected at detection limit of 0.0167 %
CBC	1.99 mg/g

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		Online Order	15701-17184C78

Analysis

Result

Industrial Hemp Cannabinoid Profile

CBC	0.199 %
THCVA	None detected at detection limit of 0.0042 %
THCVA	None detected at detection limit of 0.0042 %
CBNA	None detected at detection limit of 0.0042 %
CBNA	None detected at detection limit of 0.0042 %
CBCA	<0.250 mg/g
CBCA	<0.0250 %
CBL	<0.250 mg/g
CBL	<0.0250 %
Total Cannabinoids	49.3 mg/g
Total Cannabinoids	4.93 %
Total THC (THC + (THCA x 0.877))	0.133 %
Total THC (THC + (THCA x 0.877))	1.33 mg/g
Total CBD (CBD + (CBDA x 0.877))	4.46 %
Total CBD (CBD + (CBDA x 0.877))	44.6 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).

Certificate of Analysis

Sunsoil

180 Battery Street; Suite 250
Burlington Vermont 05401

Testing Location(s)**Released on Behalf of Eurofins by****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
Chemistry Testing Madison



2918.01

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Certificate of Analysis

Sunsoil

180 Battery Street; Suite 250
Burlington Vermont 05401

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

Method References	Testing Location
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
Food Integrity Innovation-Madison	Edward Ladwig - President Eurofins Food Chemistr
Eurofins Food Chemistry Testing Madison, Inc. 6304 Ronald Reagan Ave Madison WI 53704 800-675-8375	

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April 27, 2022

SUNSOIL

Jacob Goldstein
180 Battery Street
Burlington, VT 05401

Order No. 533380
Sample No. 1122714

SAMPLE INFORMATION

Description HW060422A
Category Non-Inhalable Concentrate
Received April 14, 2022

ANALYTICAL RESULTS

Analysis Glyphosate
Instrument LC-MS/MS
Method MF2P033
Analysis Date April 14, 2022 to April 27, 2022

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

April 27, 2022

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:	HW060422A	Eurofins Sample:	11645268
Project ID	SUNSOIL-20220412-0012	Receipt Date	14-Apr-2022
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Analysis

Result

Elements by ICP Mass Spectrometry

Arsenic	<10.0 ppb
Cadmium	<5.00 ppb
Lead	5.74 ppb
Mercury	<5.00 ppb

Method References

Testing Location

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).

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
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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
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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Analysis	Limit	Result
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

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

Food Integrity Innovation-Madison

Eurofins Food Chemistry Testing Madison, Inc.
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Edward Ladwig - President Eurofins Food Chemistry Testing Madison



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		Online Order	15701-17184C78

Analysis

Result

Salmonella BAM

Salmonella

Negative /25 g

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 Integrity Innovation-Madison

Edward Ladwig - President Eurofins Food Chemistr

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

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April 19, 2022

SUNSOIL

Jacob Goldstein
180 Battery Street
Burlington, VT 05401

Order No. 533379
Sample No. 1122709

SAMPLE INFORMATION

Description HW060422A
Category Non-Inhalable Concentrate
Received April 14, 2022

ANALYTICAL RESULTS

Analysis Terpene Profile
Instrument Gas Chromatography Mass Spectrometry (GC/MS)
Method American Herbal Pharmacopoeia
Analysis Date April 14, 2022 to April 19, 2022

Terpene	mg/g	%
α-Pinene	0.014	0.0014
Isopulegol	ND	ND
Camphene	ND	ND
Menthol	ND	ND
β-Myrcene	0.019	0.0019
(-)-Borneol	ND	ND
β-Pinene	ND	ND
Terpineol	0.016	0.0016
δ -3-Carene	ND	ND
Citronellol	ND	ND
Limonene	ND	ND
Geraniol	ND	ND
α-Terpinene	ND	ND
β-Caryophyllene	0.274	0.0274
trans-beta-Ocimene	ND	ND
α-Humulene	0.080	0.0080
cis-beta-Ocimene	ND	ND
cis-Nerolidol	ND	ND
p-Cymene	ND	ND
trans-Nerolidol	0.061	0.0061
Eucalyptol	ND	ND
Guaiol	0.047	0.0047
γ-Terpinene	ND	ND
Caryophyllene Oxide	0.092	0.0092
Terpinolene	ND	ND
α-Bisabolol	0.256	0.0256
Linalool	0.027	0.0027
Eudesmol	0.057	0.0057
Total Terpenes	0.943	0.0943

Reported by
Anresco, Inc.



Jordean Vargas
Analyst

April 19, 2022

Limit of Detection: 0.0004 %
Limit of Quantitation: 0.0013 %
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".

April 18, 2022

SUNSOIL

Jacob Goldstein
180 Battery Street
Burlington, VT 05401

Order No. 533379
Sample No. 1122709

SAMPLE INFORMATION

Description HW060422A
Category Non-Inhalable Concentrate
Received April 14, 2022

ANALYTICAL RESULTS

Analysis Water Activity
Instrument Decagon
Method MF 14G051
Analysis Date April 14, 2022 to April 18, 2022

Analyte	Findings	Limit	Status
Water Activity	0.41	0.85	Pass

Reported by
Anresco, Inc.

ND = None Detected




Eric Tam
Senior Chemist

April 18, 2022

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Certificate of Analysis

Sunsoil

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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
FDA BAM Chapter 18 (modified)	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 - President Eurofins Food Chemistr
Eurofins Food Chemistry Testing Madison, Inc. 6304 Ronald Reagan Ave Madison WI 53704 800-675-8375	

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