

Certificate of Analysis

Sunsoil

180 Battery Street; Suite 250
Burlington Vermont 05401

Sample Name:	HW221219E	Eurofins Sample:	9129929
Project ID	SUNSOIL-20191223-0009	Receipt Date	24-Dec-2019
PO Number	CVD	Receipt Condition	Ambient temperature
Sample Serving Size		Login Date	23-Dec-2019
		Date Started	26-Dec-2019
		Sampled	Sample results apply as received
		Online Order	15701-12C3657C

Analysis	Result
Industrial Hemp Cannabinoid Profile	
CBDVA	<0.00250 %
CBDV	0.00938 %
CBDA	0.170 %
CBGA	<0.00250 %
CBG	0.0152 %
CBD	1.29 %
THCV	<0.00250 %
CBN	<0.00250 %
Delta 9-THC	0.0456 %
Delta 8-THC	<0.00500 %
THCA	<0.00250 %
CBC	0.0839 %
Total Cannabinoids	1.61 %
Total THC (THC + (THCA x 0.877))	0.0456 %
Total CBD (CBD + (CBDA x 0.877))	1.44 %

Method References	Testing Location
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Industrial Hemp Cannabinoid Profile (IHCBD_S)

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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Analysis	Result
Salmonella BAM	
Salmonella	Negative /25 mL
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
E.coli and Coliforms (Petrifilm)	
Total coliforms	<10 CFU/g
Escherichia Coli	<10 CFU/g

Method References	Testing Location
Aerobic Plate Count (APC)	EML New Berlin
FDA BAM Ch. 3	
AOAC 966.23	
CMMEF Ch. 8	
E.coli and Coliforms (Petrifilm) (ECCOLIPET)	EML New Berlin
AOAC 991.14	
Salmonella BAM (SALA)	Food Integ. Innovation-Madison NE
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
Compendium of Methods for the Microbiological Examination of Foods, Yeasts and Molds, 4th Edition, Chapter 20, 2001, (Modified)	

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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 US, Inc.
3301 Kinsman Blvd
Madison WI 53704
800-675-8375



2918.01

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.

March 16, 2020

SUNSOIL

Jacob Goldstein
180 Battery Street
Burlington, VT 05401

Order No. 512189
Sample No. 1046177

SAMPLE INFORMATION

Description HW221219E
Category (Type) Edible
Received March 10, 2020

ANALYTICAL RESULTS

Analysis Date March 10, 2020 to March 16, 2020

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

Reported by
Anresco, Inc.




Cathy Cheng
Analyst

March 16, 2020



CERTIFICATE OF ANALYSIS

Unflavored - FULL SPECTRUM HEMP EXTRACT – 10MG CBD

Bottle Lot Number: 36529200
Bulk Batch Number: HW221219E
Manufacture Date: December 2019
Best By Date: December 2021
Strength: 10mg CBD per milliliter (ml) / 600mg CBD per 60ml (2oz) bottle

<u>Cannabinoid:</u>	<u>mg/g (oil potency)</u>	<u>mg/ml (oil potency)</u>	<u>% weight</u>
CBD	12.9	12.22	1.29
CBDV	0.0938	0.09	0.00938
CBDa	1.70	1.61	0.170
CBG	0.152	0.14	0.0152
CBGa	<0.0250	<0.02	<0.00250
CBC	0.839	0.80	0.0839
CBN	<0.0250	<0.02	<0.00250
Δ^9 -THC	0.456	0.43	0.0456
THCa	<0.0250	<0.02	<0.00250
Total THC	0.456	0.43	0.0456
Total CBD	14.4	13.65	1.44
Total Cannabinoids	16.1	15.26	1.61

**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®

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UNFLAVORED- FULL SPECTRUM HEMP EXTRACT – 10MG CBD

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Batch Number: HW221219E
Manufacture Date: December 2019
Best By Date: December 2021
Strength: 10mg CBD per milliliter (ml) / 600mg CBD per 60ml (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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