



# CERTIFICATE OF ANALYSIS

## ***Tincture - FULL SPECTRUM HEMP EXTRACT – 40MG CBD***

Bottle Lot Number: 13083-55023  
Batch Number: HW200622E  
Manufacture Date: October 2022  
Best By Date: October 2024  
Strength: 40mg CBD per serving / 600mg CBD per 15ml bottle/ 1200mg per 30ml bottle/  
2400mg per 60ml bottle

<b><u>Cannabinoid:</u></b>	<b><u>mg/g (oil potency)</u></b>	<b><u>mg/ml (serving potency)</u></b>	<b><u>% by weight</u></b>
CBD	42.96	40.68	4.30
CBDV	<LOQ	<LOQ	<LOQ
CBDa	0.69	0.65	0.07
CBG	0.63	0.60	0.06
CBGa	<LOQ	<LOQ	<LOQ
CBC	2.50	2.37	0.25
CBN	<LOQ	<LOQ	<LOQ
$\Delta^9$ -THC	1.18	1.12	0.12
THCa	<LOQ	<LOQ	<LOQ
<b>Total THC</b>	<b>1.18</b>	<b>1.12</b>	<b>0.12</b>
<b>Total CBD</b>	<b>43.57</b>	<b>41.26</b>	<b>4.36</b>
<b>Total Cannabinoids</b>	<b>47.96</b>	<b>45.42</b>	<b>4.80</b>

*\*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 •



SUNSOIL®

# CERTIFICATE OF ANALYSIS

## ***Tincture - FULL SPECTRUM HEMP EXTRACT – 40MG CBD***

Bottle Lot Number: 13083-55023  
Batch Number: HW200622E  
Manufacture Date: October 2022  
Best By Date: October 2024  
Strength: 40mg CBD per serving / 600mg CBD per 15ml bottle/ 1200mg per 30ml bottle/  
2400mg per 60ml bottle

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

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

<b>Glyphosate Testing</b>	<b>Pass/Fail</b>	<b>Specification</b>
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 purity 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 •

June 27, 2022

SUNSOIL  
**Jacob Goldstein**  
**180 Battery Street**  
**Burlington, VT 05401**

**Order No. 535407**  
**Sample No. 1131072**

## SAMPLE INFORMATION

Description **HW200622E**  
PO# **June21,2022**  
Category **Non-Inhalable Concentrate**  
Received **June 23, 2022**

## ANALYTICAL RESULTS

Analysis **Cannabinoid Profile**

Instrument **Liquid Chromatography Diode Array Detector (LC-DAD)**  
Method **MF-CHEM-15**  
Analysis Date **June 23, 2022 to June 27, 2022**

Cannabinoid	mg/g	%
<b>Δ8-THC</b>	<b>ND</b>	<b>ND</b>
<b>Δ9-THC</b>	<b>1.18</b>	<b>0.118</b>
<b>Δ9-THCA</b>	<b>ND</b>	<b>ND</b>
<b>THCV</b>	<b>ND</b>	<b>ND</b>
<b>THCVA</b>	<b>ND</b>	<b>ND</b>
<b>CBD</b>	<b>42.96</b>	<b>4.296</b>
<b>CBDA</b>	<b>0.69</b>	<b>0.069</b>
<b>CBC</b>	<b>2.50</b>	<b>0.250</b>
<b>CBCA</b>	<b>ND</b>	<b>ND</b>
<b>CBDV</b>	<b>ND</b>	<b>ND</b>
<b>CBG</b>	<b>0.63</b>	<b>0.063</b>
<b>CBGA</b>	<b>ND</b>	<b>ND</b>
<b>CBN</b>	<b>&lt;LOD</b>	<b>&lt;LOD</b>
<b>Total THC</b>	<b>1.18</b>	<b>0.118</b>
<b>Total CBD</b>	<b>43.57</b>	<b>4.357</b>
<b>Total Cannabinoids</b>	<b>47.88</b>	<b>4.788</b>
<b>Sum of Cannabinoids</b>	<b>47.96</b>	<b>4.796</b>

**Reported by**  
Anresco, Inc.




Eric Tam  
Senior Chemist

**June 27, 2022**

**Limit of Detection: 0.1333 mg/g**  
**Limit of Quantitation: 0.4 mg/g**  
**ND = None Detected**  
**<LOQ = Below Limit of Quantitation**  
**LOD = Limit of Detection**  
**Total THC = Δ9-THC + (0.877 \* Δ9-THCA)**  
**Total CBD = CBD + (0.877 \* CBDA)**  
**Total Cannabinoids = Σ (neutral cannabinoids) + [0.877 \* Σ (acidic cannabinoids)]**

1375 Van Dyke Ave., San Francisco, CA 94124

Report ID: T-2

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## Certificate of Analysis

### Sunsoil

180 Battery Street; Suite 250  
Burlington Vermont 05401 United States

<b>Sample Name:</b>	<b>HW200622E</b>	<b>Eurofins Sample:</b>	<b>12059956</b>
<b>Project ID</b>	SUNSOIL-20220811-0024	<b>Receipt Date</b>	10-Aug-2022
<b>PO Number</b>	NA	<b>Receipt Condition</b>	Ambient temperature
<b>Sample Serving Size</b>	1 g	<b>Login Date</b>	11-Aug-2022
		<b>Date Started</b>	11-Aug-2022
		<b>Sampled</b>	Sample results apply as received
		<b>Number Composited</b>	2
		<b>Online Order</b>	15701-17AFF760

Analysis	Result
<b>Salmonella BAM</b>	
Salmonella	Negative /25 g

Method References	Testing Location
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<b>Salmonella BAM (SALA)</b>	<b>EML New Berlin</b> 2345 S 170th St New Berlin, WI 53151 USA
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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
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<b>Food Integrity Innovation-Madison</b>	<b>Edward Ladwig - President Eurofins Food Chemistr</b>
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Eurofins Food Chemistry Testing Madison, Inc.  
6304 Ronald Reagan Ave  
Madison WI 53704  
800-675-8375

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.

## Certificate of Analysis

### Sunsoil

180 Battery Street; Suite 250  
Burlington Vermont 05401 United States

<b>Sample Name:</b>	<b>HW200622E</b>	<b>Eurofins Sample:</b>	<b>12059956</b>
<b>Project ID</b>	SUNSOIL-20220811-0024	<b>Receipt Date</b>	10-Aug-2022
<b>PO Number</b>	NA	<b>Receipt Condition</b>	Ambient temperature
<b>Sample Serving Size</b>	1 g	<b>Login Date</b>	11-Aug-2022
		<b>Date Started</b>	11-Aug-2022
		<b>Sampled</b>	Sample results apply as received
		<b>Number Composited</b>	2
		<b>Online Order</b>	15701-17AFF760

#### 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

2345 S 170th St New Berlin, WI 53151 USA

AOAC 991.14

#### Testing Location(s)

#### Released on Behalf of Eurofins by

Food Integrity Innovation-Madison

Edward Ladwig - President Eurofins Food Chemist

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

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.

August 11, 2022

SUNSOIL  
Jacob Goldstein  
180 Battery Street  
Burlington, VT 05401

Order No. 536684  
Sample No. 1135583

## SAMPLE INFORMATION

Description **HW200622E**  
PO# **August5,2022**  
Category **Non-Inhalable Concentrate**  
Received **August 08, 2022**

## ANALYTICAL RESULTS

Analysis **Terpene Profile**  
Instrument **Gas Chromatography Mass Spectrometry (GC/MS)**  
Method **American Herbal Pharmacopoeia**  
Analysis Date **August 08, 2022 to August 11, 2022**

Terpene	mg/g	%
$\alpha$ -Pinene	0.015	0.0015
Isopulegol	ND	ND
Camphene	ND	ND
Menthol	ND	ND
$\beta$ -Myrcene	0.021	0.0021
(-)-Borneol	ND	ND
$\beta$ -Pinene	BLOQ	BLOQ
Terpineol	0.030	0.0030
$\delta$ -3-Carene	ND	ND
Citronellol	ND	ND
Limonene	0.019	0.0019
Geraniol	ND	ND
$\alpha$ -Terpinene	ND	ND
$\beta$ -Caryophyllene	0.322	0.0322
trans-beta-Ocimene	ND	ND
$\alpha$ -Humulene	0.085	0.0085
cis-beta-Ocimene	ND	ND
cis-Nerolidol	ND	ND
p-Cymene	ND	ND
trans-Nerolidol	ND	ND
Eucalyptol	BLOQ	BLOQ
Guaiol	ND	ND
$\gamma$ -Terpinene	ND	ND
Caryophyllene Oxide	0.103	0.0103
Terpinolene	ND	ND
$\alpha$ -Bisabolol	0.140	0.0140
Linalool	ND	ND
Eudesmol	0.054	0.0054
Total Terpenes	0.79	0.079

If there are any questions with this report, please contact "[compliance@anresco.com](mailto:compliance@anresco.com)".

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**under applicable law. Anresco Laboratories is ISO/IEC 17025:2017 Accredited by ANAB - Certificate Number AT-1551.**



**Reported by**  
Anresco, Inc.


Jordean Vargas  
Analyst

**August 11, 2022**

**Limit of Detection: 0.0004 %**  
**Limit of Quantitation: 0.0013 %**  
**ND = None Detected**  
**<LOQ = Below Limit of Quantitation**  
**LOD = Limit of Detection**

If there are any questions with this report, please contact "[compliance@anresco.com](mailto:compliance@anresco.com)".

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August 11, 2022

SUNSOIL  
**Jacob Goldstein**  
**180 Battery Street**  
**Burlington, VT 05401**

**Order No. 536684**  
**Sample No. 1135583**

## SAMPLE INFORMATION

Description **HW200622E**  
PO# **August5,2022**  
Category **Non-Inhalable Concentrate**  
Received **August 08, 2022**

## ANALYTICAL RESULTS

Analysis **Water Activity**  
Instrument **Decagon**  
Method **MF 14G051**  
Analysis Date **August 08, 2022 to August 11, 2022**

Analyte	Findings	Limit	Status
<b>Water Activity</b>	<b>0.51</b>	<b>0.85</b>	<b>Pass</b>

**Reported by**  
Anresco, Inc.

**ND = None Detected**



Eric Tam  
Senior Chemist

**August 11, 2022**

If there are any questions with this report, please contact "[compliance@anresco.com](mailto:compliance@anresco.com)".

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under applicable law. Anresco Laboratories is ISO/IEC 17025:2017 Accredited by ANAB - Certificate Number AT-1551.  
August 17, 2022

August 10, 2022

SUNSOIL  
**Jacob Goldstein**  
**180 Battery Street**  
**Burlington, VT 05401**

**Order No. 536684**  
**Sample No. 1135583**

## SAMPLE INFORMATION

Description **HW200622E**  
PO# **August5,2022**  
Category **Non-Inhalable Concentrate**  
Received **August 08, 2022**

## ANALYTICAL RESULTS

Analysis **Glyphosate**  
Instrument **LC-MS/MS**  
Method **Anresco MF 2P033**

Analysis Date **August 08, 2022 to August 10, 2022**

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

**Reported by**  
Anresco, Inc.

**ND = None Detected**


Cathy Cheng  
Senior Analyst

**August 10, 2022**

August 10, 2022  
Anresco Laboratories [www.anresco.com](http://www.anresco.com)

Sample#: **1135583**

page 1 of 1

1375 Van Dyke Ave., San Francisco, CA 94124

Report ID: T-2

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## Certificate of Analysis

**Company:** Sunsoil  
 180 Battery St. Suite 250  
 Burlington, VT 05401

**Customer ID:** 211217-0  
**Grower License #:** 50\_2021\_00000089

**Sample ID:** HW200622E

**Lot:** N/A

**Matrix:** Oil

**Date Sampled:** N/A

**Date Received:** 8/8/2022

**Report Date:** 8/16/2022

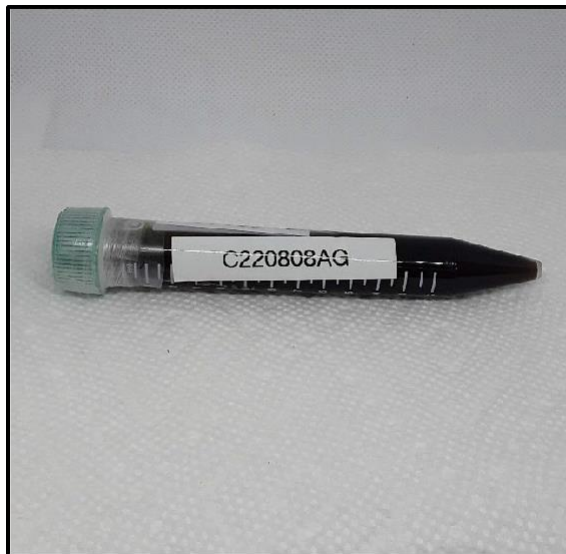
**Date Analyzed:** 8/10/2022

**Analyst:** LEM

**Report ID:** C220808AG

## Plate Count Summary

Microbial Profile	3M Petrifilm Reference #	LOQ (cfu/g)	Plate Count (cfu/g)
Total Aerobic Plate Count	6400	910	<LOQ
Yeast and Mold Plate Count	6407	910	<LOQ




Microbial Methodology: 3M™ Petrifilm Plates

cfu/g = colony forming units per gram

LOQ = The lowest quantity that this method can reliably detect. Any microbial growth that was not detected is assumed to be less than the stated LOQ (<LOQ).

Reagent Blanks: <LOQ for all analytes

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Certified by:   
 Luke Emerson Mason (Laboratory Director, Bia Diagnostics)

## Certificate of Analysis

**Company:** Sunsoil  
 180 Battery St. Suite 250  
 Burlington, VT 05401

**Sample ID:** HW200622E  
**Lot:** N/A  
**Matrix:** Oil

**Report Date:** 8/16/2022  
**Date Analyzed:** 8/10/2022

**Customer ID:** 211217-0

**Date Sampled:** N/A

**Analyst:** KAC

**Grower License #:** 50\_2021\_00000089

**Date Received:** 8/8/2022

**Report ID:** C220808AG

### Pesticides/Mycotoxins Summary

Category II Residual Pesticide	LOQ (ppb)	Concentration (ppb)	Category II Mycotoxin	LOQ (ppb)	Concentration (ppb)
Abamectin	10.0	<LOQ	Ochratoxin A	2.0	<LOQ
Acephate	1.0	<LOQ	Aflatoxin B1	0.2	<LOQ
Acequinocyl	1.0	<LOQ	Alfatoxin B2	1.0	<LOQ
Acetamiprid	1.0	<LOQ	Alfatoxin G1	0.2	<LOQ
Azoxystrobin	1.0	<LOQ	Alfatoxin G2	1.0	<LOQ
Bifenazate	1.0	<LOQ			
Bifenthrin	1.0	<LOQ			
Boscalid	1.0	<LOQ			
Carbaryl	1.0	<LOQ			
Chlorantraniliprole	1.0	<LOQ			
Clofentezine	1.0	<LOQ			
Cyfluthrin	10.0	<LOQ			
Cypermethrin	10.0	<LOQ			
Diazinon	1.0	<LOQ			
Etoazole	1.0	<LOQ			
Fenpyroximate	1.0	<LOQ			
Fonicamid	1.0	<LOQ			
Hexythiazox	1.0	<LOQ			
Imidacloprid	1.0	<LOQ			
Kresoxim-methyl	1.0	<LOQ			
Malathion	1.0	<LOQ			
Metalaxyl	1.0	<LOQ			
Methomyl	1.0	<LOQ			
Myclobutanil	1.0	<LOQ			
Naled	1.0	<LOQ			
Oxamyl	1.0	<LOQ			
Permethrin	1.0	<LOQ			
Phosmet	1.0	<LOQ			
Piperonylbutoxide	1.0	<LOQ			
Prallethrin	1.0	<LOQ			
Propiconazole	1.0	<LOQ			
Pyrethrin I	1.0	<LOQ			
Pyrethrin II	1.0	<LOQ			
Pyridaben	1.0	<LOQ			
Spinosyn A	1.0	<LOQ			
Spinosyn D	1.0	<LOQ			
Spiromesifen	1.0	<LOQ			
Spirotetramat	1.0	<LOQ			
Tebuconazole	1.0	<LOQ			
Thiamethoxam	1.0	<LOQ			
Trifloxystrobin	1.0	<LOQ			

Category I Residual Pesticide	LOQ (ppb)	Concentration (ppb)
Aldicarb	1.0	<LOQ
Carbofuran	1.0	<LOQ
Chlorpyrifos	1.0	<LOQ
Daminozide	10.0	<LOQ
DDVP (Dichlorvos)	1.0	<LOQ
Dimethoate	1.0	<LOQ
Ethoprop(hos)	1.0	<LOQ
Etofenprox	1.0	<LOQ
Fenoxycarb	1.0	<LOQ
Imazalil	1.0	<LOQ
Methiocarb	1.0	<LOQ
Paclobutrazol	1.0	<LOQ
Propoxur	1.0	<LOQ
Spiroxamine	5.0	<LOQ
Thiacloprid	1.0	<LOQ

**N/A**

**Percent Moisture**

LOQ = The lowest quantity this method can reliably detect. Any pesticide or mycotoxins that was not detected is assumed to be less than the stated LOQ (<LOQ).

All results reflect dry weight of material, based on % moisture of the sample.

ppb = parts per billion

Pesticides/Mycotoxin Methodology: Liquid Chromatography with Tandem Mass Spectrometry using PerkinElme QSight® LX50 UHPLC and QSight 220 Mass Spectrometer

All moisture analysis is determined by loss-on-drying measurement using OHAUS Model MB90 Moisture Content Readers.

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(802) 540-0148 laboratory@biadiagnostics.com

Certified by:   
 Luke Emerson Mason (Laboratory Director, Bia Diagnostics)



## Certificate of Analysis

<b>Company:</b> Sunsoil 180 Battery St. Suite 250 Burlington, VT 05401  <b>Customer ID:</b> 211217-0 <b>Grower License #:</b> 50_2021_00000089	<b>Sample ID:</b> HW200622E <b>Lot:</b> N/A <b>Matrix:</b> Oil <b>Date Sampled:</b> N/A <b>Date Received:</b> 8/8/2022	<b>Report Date:</b> 9/22/2022 <b>Date Analyzed:</b> 9/9/2022 <b>Analyst:</b> CF <b>Report ID:</b> C220808AG
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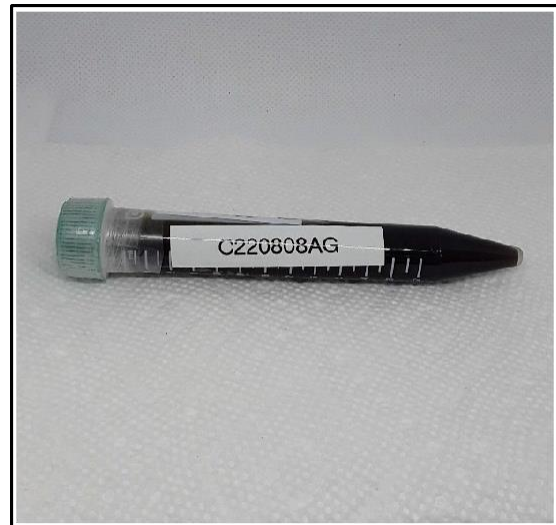
### Residual Solvents Summary

Residual Solvent	LOQ (µg/g)	Results (µg/g)
1,2-Dichloroethane	0.002	<LOQ
Benzene	0.003	<LOQ
Chloroform	0.006	<LOQ
Methylene Chloride	0.005	<LOQ
Trichloroethylene	0.001	<LOQ
Acetone	0.005	<LOQ
Acetonitrile	0.002	<LOQ
Propane	0.005	<LOQ
Butane	24.000	<LOQ
Ethanol	0.036	<LOQ
Ethyl acetate	0.014	<LOQ
Ethyl Ether	0.225	<LOQ
Heptane	1.500	<LOQ
Hexane	0.023	<LOQ
Isopropyl Alcohol	0.018	<LOQ
Methanol	0.009	<LOQ
Pentane	22.500	<LOQ
Toluene	0.005	<LOQ
<b>Total Xylenes</b>	<b>0.011</b>	<b>&lt;LOQ</b>

LOQ = The lowest quantity that this method can reliably detect. Any residual solvent that was not detected is assumed to be less than the stated LOQ (<LOQ).

Residual Solvent Methodology: Headspace Sampler, Gas Chromatography-Mass Spectrometry (GC-MS), using Perkin Elmer Clarus<sup>®</sup> SQ8 GC MS

Reagent Blanks: < LOQs for all analytes



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Certified by: *Luke E. M.*  
 Luke Emerson Mason (Laboratory Director, Bia Diagnostics)