



## Batch 1905 - Documentation

---

---

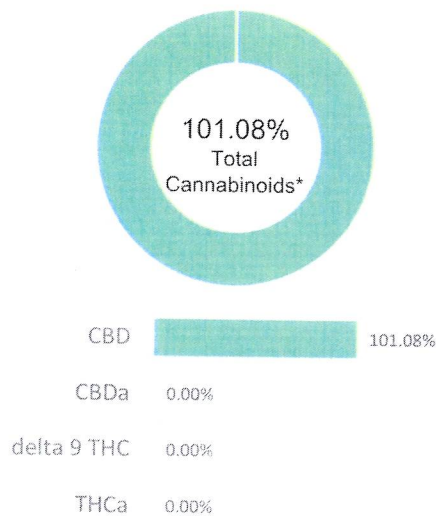
---

Isolate

EWSD I LLC dba Shi Farms  
214 39<sup>th</sup> Lane  
Pueblo, CO 81006  
(719) 299-2550

**Isolate 1905**

<b>Batch ID:</b> 1905	<b>Test ID:</b> 6926130.0013
<b>Reported:</b> 13-Jun-2019	<b>Method:</b> TM14
<b>Type:</b> Concentrate	
<b>Test:</b> Potency	

**CANNABINOID PROFILE**


Compound	LOQ (%)	Result (%)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.25	0.00	0.0
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.13	0.00	0.0
Cannabidiolic acid (CBDA)	0.25	0.00	0.0
Cannabidiol (CBD)	0.14	101.08	1010.8
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.14	0.00	0.0
Cannabinolic Acid (CBNA)	0.35	0.00	0.0
Cannabinol (CBN)	0.15	0.00	0.0
Cannabigerolic acid (CBGA)	0.22	0.00	0.0
Cannabigerol (CBG)	0.12	0.00	0.0
Tetrahydrocannabivarinic Acid (THCVA)	0.22	0.00	0.0
Tetrahydrocannabivarin (THCV)	0.11	0.00	0.0
Cannabidivarinic Acid (CBDVA)	0.23	0.00	0.0
Cannabidivarin (CBDV)	0.13	0.00	0.0
Cannabichromenic Acid (CBCA)	0.19	0.00	0.0
Cannabichromene (CBC)	0.23	0.00	0.0
<b>Total Cannabinoids</b>		<b>101.08</b>	<b>1010.80</b>
<b>Total Potential THC**</b>		<b>0.00</b>	<b>0.00</b>
<b>Total Potential CBD**</b>		<b>101.08</b>	<b>1010.80</b>

 NOTES:  
 N/A

% = (mass / weight) \* 100 (Weight of Analyte / Weight of Product)

\* Total Cannabinoids result reflects the absolute sum of all cannabinoids detected

\*\* Total Potential THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step.

Total THC = THC + (THCa \* 0.877) and Total CBD = CBD + (CBDa \* 0.877)

**FINAL APPROVAL**

*Samantha Smith*  
 Sam Smith  
 13-Jun-2019  
 1:59 PM  
 PREPARED BY / DATE

*Greg Zimpfer*  
 Greg Zimpfer  
 13-Jun-2019  
 2:15 PM  
 APPROVED BY / DATE

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC. ISO/IEC 17025:2005 Accredited A2LA Certificate Number 4329.02



Certificate #4329.02

Botanacor Laboratories™, All Rights Reserved | 1001 S. Galapago St., Denver, CO 80223 | 888.800.8223 | www.Botanacor.com

# PHYTATECH™

## M E T R I C S & S O L U T I O N S

879 Federal Blvd.  
 Denver, CO 80204  
 303-427-2379  
 DOR#: 405R-00011 & 405-00008  
 info@phytatech.com

Date Received: 06.17.2019  
 Date Lab Test: 06.19.2019  
 Date Reported: 06.19.2019

Company Name: EWSD I LLC  
 Company License: 403H-68779  
 Sample Type: Concentrate

\*ND: None Detected or below reportable threshold  
 All data in the following table is in parts per million (ppm).

Sample	Sample	METRC #	Arsenic	Lead	Cadmium	Mercury
CBD Distillate	306891	1A40007 1267FA 8B00000 0138	ND	ND	ND	ND
CBD Isolate	306892	1A40007 1267FA 8B00000 0137	ND	ND	ND	ND

NOTES: The State of Colorado mandates the following levels for heavy metals in inhaled or audited products (nasal or MDI): Lead (< 0.5 ppm), Arsenic (< 0.2 ppm), Cadmium (< 0.2 ppm), and Mercury (< 0.1 ppm).

The State of Colorado mandates the following levels for heavy metals in topical or transdermal products: Lead (< 10 ppm), Arsenic (< 3 ppm), Cadmium (< 3 ppm), and Mercury (< 1 ppm).

The State of Colorado mandates the following levels for heavy metals in oral or audited products (rectal or vaginal) products: Lead (< 1 ppm), Arsenic (< 1.5 ppm), Cadmium (< 0.5 ppm), and Mercury (< 1.5 ppm).

This testing is for R&D purposes only.



**PESTICIDES LABORATORY REPORT**

Customer Name:	EWSD I LLC	Product Name:	CBD Isolate
Customer License:	403H-68779	Product Type:	Concentrate
Batch Number:	1905	Sample ID:	306892
METRC Tag:	1A400071267FA8B000000137	Date Received:	06/17/2019
Instrument Name:	HPLC 1050	Test Date:	06/20/2019
		Report Date:	06/20/2019

PESTICIDE	ppb
■ Abamectin	ND*
■ Avermectin B1b	ND*
■ Azoxystrobin	ND*
■ Bifenazate	ND*
■ Etoxazole	ND*
■ Imazalil	ND*
■ Imidacloprid	ND*
■ Malathion A	ND*
■ Myclobutanil	ND*
■ Cis Permethrin	ND*
■ Trans Permethrin	ND*
■ Spinosyn A	ND*
■ Spinosyn D	ND*
■ Spiromesifen	ND*
■ Spirotetramat	ND*
■ Tebuconazole	ND*

Notes:

\* None Reported (NR) because the compound exists at or below the detection limit of the method.

\* None Detected (ND) because the compound was not detected.



**Stephen Goldman**  
Laboratory Director








**MICROBIAL LABORATORY REPORT**

Customer Name:	EWSD I LLC	Product Name:	CBD Isolate
Customer License:	403H-68779	Product Type:	Concentrate
Batch Number:	1905	Sample ID:	306892
METRC Tag:	1A400071267FA8B000000137	Date Received:	06/17/2019
Instrument Name:	Microbial Lab	Test Date:	06/21/2019
		Report Date:	06/21/2019

MICROBIAL CONTAMINATION\*

	STEC	ND
	Salmonella	ND
	Total Yeast & Molds	ND cfu/g

Notes:

\* None Detected (ND) because the compound was not detected.

\* Microbial Contamination (SOPs 029, 030, 039)

\* Sample Condition deemed acceptable upon receipt by PhytaTech. Sampling done by outside party.

\* E. coli & Salmonella measured using qPCR. Total Yeast & Mold (TYMC) is a plating technique. The regulatory limit for TYMC is 10,000 cfu/g or 10<sup>4</sup>. CFU/g = colony forming unit per gram.



**Stephen Goldman**  
Laboratory Director



# Certificate of Analysis

Final Product: Cannabidiol Isolate

Lot Number: IL19051-029



MILE HIGH LABS™

Test	Methodology	Specification	Test Results (Average)*	Pass/Fail	
Color and Appearance	TM-004 (Visual)	White, crystalline powder free of particulates	Conforms	Pass	
CBD Identification	TM-001 (DAD Retention Time)	Retention time of the primary peak in sample chromatogram matches that in the analytical reference standard.	Conforms	Pass	
	TM-001 (DAD UV Spectrum)	UV Spectrum of the primary peak in sample chromatogram matches that in the analytical reference standard.	Conforms	Pass	
CBD Potency (% w/w)	TM-001 (HPLC-DAD)	≥ 98%	99.1	Pass	
THC Content (% w/w)	THC	TM-001 (HPLC-DAD)	≤ LOQ†	< LOQ	Pass
	THCA	TM-001 (HPLC-DAD)	≤ LOQ†	ND	Pass
Related Cannabinoid Content (% w/w)	CBDA	TM-001 (HPLC-DAD)	Report	ND	N/A
	CBN	TM-001 (HPLC-DAD)	Report	ND	N/A
	CBDV	TM-001 (HPLC-DAD)	Report	0.21	N/A
	Other (Highest)	TM-001 (HPLC-DAD)	Report	0.20	N/A
	Total	TM-001 (HPLC-DAD)	Report	0.49	N/A
Total Cannabinoids (CBD plus total RCs, % w/w)	TM-001 (HPLC-DAD)	Report	99.57	N/A	
Residual Solvents (ppm)	Pentane	TM-005 (HS-GC-FID)	≤ 500 ppm	208	Pass
	Acetone	TM-005 (HS-GC-FID)	≤ 500 ppm	ND	Pass
	Isopropyl Alcohol	TM-005 (HS-GC-FID)	≤ 500 ppm	< LOQ	Pass
	Hexane	TM-005 (HS-GC-FID)	≤ 25 ppm	< LOQ	Pass

\* Number of replicates: 10

† TM-001 LOQ of 0.05% w/w for related cannabinoids.

Prepared by

DocuSigned by:



Signer Name: Vanessa Johnson  
 Signing Reason: I am the author of this document  
 Signing Time: 6/10/2019 1:06:39 PM PDT

6D773B54A25E4768B1430303D484890C

Quality Approval

DocuSigned by:



Signer Name: Josh Harrelson  
 Signing Reason: I approve this document  
 Signing Time: 6/10/2019 1:15:56 PM PDT

15E509A466BE44BAB51EC15D7A083509



EWSD I LLC dba Shi Farms