

STRAIGHT HEMP

CERTIFICATE OF ANALYSIS

PRODUCT:

Full Spectrum Hemp Oil - Certified Organic

PRODUCTION DATE:

11/2022

BATCH/LOT: INGREDIENTS:

0022306

EXPIRATION DATE:

11/2024

ADDITIVES:

Organic Hemp Seed Oil, Organic Full Spectrum Hemp Extract, Hemp Terpenes

EXCIPIENTS:

none

TEST	METHOD	SPECIFICATION	RESULTS
Strength & Composition Identity Identity Total Cannabidiol (CBD) ⁱ Total Tetrahydrocannabinol (THC) ⁱⁱⁱ Terpene assay ^{iv}	Organoleptic HPLC-DAD HPLC-DAD HPLC-DAD HS-GC/MS	Conforming Chemical Fingerprint 36.7 – 42.3 mg/g NMT 0.30% n/e	PASS PASS 40.16 mg/g ⁱⁱ 0.165% 3,268 ppm
Microbiological ^v Total Plate Count Total Yeast & Mold Total Coliforms E. coli Salmonella	TM-26 TM-24 TM-27 TM-25 TM-25	NMT 10,000 cfu/g NMT 1,000 cfu/g NMT 1,000 cfu/g Absent/25g Absent/25g	PASS PASS PASS PASS PASS
Mycotoxins Alfatoxin B1 Alfatoxin B2 Alfatoxin G1 Alfatoxin G2 Ochratoxin	LCMS LCMS LCMS LCMS LCMS	NMT 20 ppb NMT 20 ppb NMT 20 ppb NMT 20 ppb NMT 20 ppb	PASS PASS PASS PASS PASS
Heavy Metals ^{vi} Arsenic (As) Cadmium (Cd) Lead (Pb) Mercury (Hg)	ICP/MS ICP/MS ICP/MS ICP/MS	NMT 1.0 ppm NMT 0.5 ppm NMT 0.5 ppm NMT 0.1 ppm	PASS PASS PASS PASS

ⁱ Total CBD = CBD + (0.877*CBDa) to account for loss of acid group during decarboxylation

[&]quot; Corresponds to 37.1 mg/ml

 $^{^{\}text{iii}}$ Total THC = THC + (0.877*THCa) to account for loss of acid group during decarboxylation

iv Sum of terpene assay (n=22)

^v Microbiological limits based on USP, WHO, and/or NSF/ANSI

vi Limits for As and Pb set below CA Prop 65 no significant risk level; Cd and Hg set below USP permitted daily exposure for 110lb body weight. Complies with 6 CCR 1010-21



STRAIGHT HEMP

CERTIFICATE OF ANALYSIS

PRODUCT:

Full Spectrum Hemp Oil – Certified Organic

PRODUCTION DATE:

11/2022

BATCH/LOT:

2022206

EXPIRATION DATE:

11/2024

INGREDIENTS:

Organic Hemp Seed Oil, Organic Full Spectrum Hemp Extract, Hemp Terpenes

ADDITIVES: EXCIPIENTS:

none none

TEST	METHOD	SPECIFICATION	RESULTS	
Residual Solvents ^{vii}				
Acetone	GC-MS	Below MRL	PASS	
Benzene	GC-MS	Below MRL	PASS	
Butanes	GC-MS	Below MRL	PASS	
Ethanol	GC-MS	Below MRL	PASS	
Ethyl Acetate	GC-MS	Below MRL	PASS	
Heptanes	GC-MS	Below MRL	PASS	
Hexane	GC-MS	Below MRL	PASS	
Isopropyl Alcohol	GC-MS	Below MRL	PASS	
Methanol	GC-MS	Below MRL	PASS	
Pentane	GC-MS	Below MRL	PASS	
Propane	GC-MS	Below MRL	PASS	
Toluene	GC-MS	Below MRL	PASS	
Xylenes	GC-MS	Below MRL	PASS	
Pesticides				
Multi-residue panel	UPLC-MS/MS	Below MRLviii	PASS	

NMT = Not More Than

MRL = Method Reporting Limit

n/e = not established

David Cole

Director of Quality

Date

vii 21 solvent panel may also include: 1,1-Dichlorothene, 1,2-Dichloroethane, Acetonitrile, Chloroform, Ethyl Ether, Ethylene Oxide, Methylene Chloride, Trichloroethylene.

viii₅₀ residue panel



Official Compliance: Colorado CERTIFICATE OF ANALYSIS

Prepared for:

ORGANIC Full Spectrum Hemp Oil

Straight Hemp

Batch ID or Lot Number: Test: Reported: Location: 5135 W 58th Ave, Unit 5 0022306 11/9/22 **Potency** Arvada, CO 80002 Matrix: Test ID: Started: **USDA License:** T000226806 11/8/22 Concentrate N/A Received: Sampler ID: Status: Method:

Active TM14 (HPLC-DAD): Potency - Broad 11/04/2022 @ 11:14 AM N/A Spectrum Analysis, 0.01% THC

CANNABINOID PROFILE

Compound	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.003	0.008	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.003	0.009	0.165	1.65
Cannabidiolic acid (CBDA)	0.017	0.058	0.085	0.85
Cannabidiol (CBD)	0.016	0.057	3.941	39.41
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.020	0.060	ND	ND
Cannabinolic Acid (CBNA)	0.012	0.035	ND	ND
Cannabinol (CBN)	0.005	0.016	0.021	0.21
Cannabigerolic acid (CBGA)	0.017	0.051	ND	ND
Cannabigerol (CBG)	0.004	0.012	0.042	0.42
Tetrahydrocannabivarinic Acid (THCVA)	0.014	0.043	ND	ND
Tetrahydrocannabivarin (THCV)	0.004	0.011	ND	ND
Cannabidivarinic Acid (CBDVA)	0.007	0.024	ND	ND
Cannabidivarin (CBDV)	0.004	0.013	0.018	0.18
Cannabichromenic Acid (CBCA)	0.007	0.020	ND	ND
Cannabichromene (CBC)	0.007	0.021	0.138	1.38
Total Cannabinoids			4.410	44.10
Total Potential THC**			0.165	1.65
Total Potential CBD**			4.016	40.16

Samantha Smoll

Sam Smith 9-Nov-22 11:07 AM

L Winternheimer

Karen Winternheimer 9-Nov-22 11:10 AM

PREPARED BY / DATE

APPROVED BY / DATE

Definitions

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)

** 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))

Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.

ND = None Detected (Defined by Dynamic Range of the method)

Testing results are based solely upon the sample submitted to SC Laboratories, Inc. SC Laboratories, Inc 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. All decision rulings are in accordance with the MED and results uploaded to METRC. This report may not be reproduced, except in full, without the written approval of SC Laboratories, Inc. ISO/IEC 17025:2017 Accredited A2LA Certificate Number 4329.01



CDPHE Certified





Certificate #4329.02



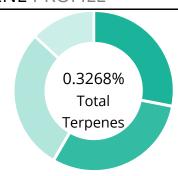
prepared for: Straight Hemp

5135 W 58th Ave, Unit 5 Arvada, CO 80002

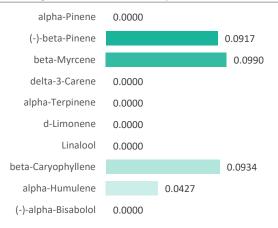
ORGANIC Full Spectrum Hemp Oil

Batch ID:	OO22306	Test ID:	T000226807
Туре:	Concentrate	Submitted:	11/04/2022 @ 11:14 AM
Test:	Terpenes	Started:	5/16/2022
Method:	TM22 (GC-MS)	Reported:	11/11/2022

TERPENE PROFILE



PRFC	MOC	INANT	TERPENES



Compound	%(w/w)	mg/g
(-)-alpha-Bisabolol	0.0000	0.000
Camphene	0.0000	0.000
delta-3-Carene	0.0000	0.000
beta-Caryophyllene	0.0934	0.934
(-)-Caryophyllene Oxide	0.0000	0.000
p-Cymene	0.0000	0.000
Eucalyptol	0.0000	0.000
Geraniol	0.0000	0.000
alpha-Humulene	0.0427	0.427
(-)-Isopulegol	0.0000	0.000
d-Limonene	0.0000	0.000
Linalool	0.0000	0.000
beta-Myrcene	0.0990	0.990
cis-Nerolidol	0.0000	0.000
trans-Nerolidol	0.0000	0.000
Ocimene	0.0000	0.000
beta-Ocimene	0.0000	0.000
alpha-Pinene	0.0000	0.000
(-)-beta-Pinene	0.0917	0.917
alpha-Terpinene	0.0000	0.000
gamma-Terpinene	0.0000	0.000
Terpinolene	0.0000	0.000
	0.3268	3.268

NOTES:

N/A

FINAL APPROVAL



Karen Winternheimer 11-Nov-2022 4:32 PM

Samantha Small

Sam Smith 11-Nov-2022 4:34 PM

PREPARED BY / DATE

APPROVED BY / DATE

Testing results are based solely upon the sample submitted to SC Laboratories, Inc. SC Laboratories, Inc 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. All decision rulings are in accordance with the MED and results uploaded to METRC. This report may not be reproduced, except in full, without the written approval of SC Laboratories, Inc. ISO/IEC 17025:2017 Accredited A2LA Certificate Number 4329.01





Certificate #4329.02



Prepared for:

ORGANIC Full Spectrum Hemp Oil

Straight Hemp

Batch ID or Lot Number: Test: OO22306 Metals		Reported: 11/10/22	Location: 5135 W 58th Ave, Unit 5 Arvada, CO 80002
Matrix:	Test ID:	Started:	USDA License:
Unit Co	T000226809	11/10/22	N/A
Status:	Method:	Received:	Sampler ID:
Active	TM19 (ICP-MS): Heavy Metals	11/04/2022 @ 11:14 AM	N/A

HEAVY METALS DETERMINATION

Compound	l	Dynamic Range (ppm)	Result (ppm)	
Arsenic		0.037 - 3.65	ND	
Cadmium		0.036 - 3.56	ND	
Mercury		0.034 - 3.42	ND	
Lead		0.034 - 3.43	ND	
Sawantha Grow	Sam Smith 10-Nov-22 3:50 PM	L Wintern	Karen Winternho 10-Nov-22 4:12 PM	eimer
PREPARED BY / DATE		APPROVED BY	/ DATE	

Definitions

ND = None Detected (Defined by Dynamic Range of the method)



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.





Prepared for:

ORGANIC Full Spectrum Hemp Oil

Straight Hemp

Batch ID or Lot Number: 0022306	Test: Residual Solvents	Reported: 11/9/22	Location: 5135 W 58th Ave, Unit 5 Arvada, CO 80002
Matrix:	Test ID:	Started:	USDA License:
N/A	T000226810	11/9/22	N/A
Status:	Methods:	Received:	Sampler ID:
Active	TM04 (GC-MS): Residual Solven	ts 11/04/2022 @ 11:14 AM	N/A

RESIDUAL SOLVENTS DETERMINATION

Solvent	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	95 - 1907	*ND	_
Butanes	100 2770	*ND	
sobutane, n-Butane)	189 - 3779	"ND	
Methanol	64 - 1274	*ND	
Pentane	106 - 2128	*ND	
Ethanol	105 - 2102	*ND	
Acetone	108 - 2155	*ND	
Isopropyl Alcohol	116 - 2318	*ND	
Hexane	6 - 130	*ND	
Ethyl Acetate	110 - 2199	*ND	
Benzene	0.2 - 4.6	*ND	
Heptanes	112 - 2232	*ND	
Toluene	19 - 386	*ND	
(m.n.o-Xylenes)	141 - 2824	*ND	

Samantha Small

Sam Smith 9-Nov-22 1:56 PM

L Winternheimer

Karen Winternheimer 9-Nov-22 1:57 PM

PREPARED BY / DATE

APPROVED BY / DATE

Definitions

* ND = None Detected (Defined by Dynamic Range of the method)



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Prepared for:

ORGANIC Full Spectrum Hemp Oil

Straight Hemp

Batch ID or Lot Number: Test: OO22306 Pesticides		Reported: 11/10/22	Location: 5135 W 58th Ave, Unit 5 Arvada, CO 80002
Matrix:	Test ID:	Started:	USDA License:
Concentrate	T000226808	11/9/22	N/A
Status:	Method:	Received:	Sampler ID:
N/A	TM17(LC-QQQ LC MS/MS):	11/04/2022 @ 11:14 AM	N/A

PESTICIDE DETERMINATION

Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)
Acephate	40	ND	Fenoxycarb	41	ND	Paclobutrazol	41	ND
Acetamiprid	37	ND	Fipronil	31	ND	Permethrin	276	ND
Abamectin	257	ND	Flonicamid	42	ND	Phosmet	42	ND
Azoxystrobin	41	ND	Fludioxonil	298	ND	Prophos	275	ND
Bifenazate	41	ND	Hexythiazox	41	ND	Propoxur	40	ND
Boscalid	33	ND	Imazalil	265	ND	Pyridaben	281	ND
Carbaryl	38	ND	Imidacloprid	43	ND	Spinosad A	32	ND
Carbofuran	40	ND	Kresoxim-methyl	150	ND	Spinosad D	46	ND
Chlorantraniliprole	43	ND	Malathion	285	ND	Spiromesifen	257	ND
Chlorpyrifos	500	ND	Metalaxyl	40	ND	Spirotetramat	265	ND
Clofentezine	270	ND	Methiocarb	39	ND	Spiroxamine 1	18	ND
Diazinon	281	ND	Methomyl	36	ND	Spiroxamine 2	22	ND
Dichlorvos	281	ND	MGK 264 1	164	ND	Tebuconazole	279	ND
Dimethoate	38	ND	MGK 264 2	105	ND	Thiacloprid	40	ND
E-Fenpyroximate	272	ND	Myclobutanil	13	ND	Thiamethoxam	36	ND
Etofenprox	40	ND	Naled	53	ND	Trifloxystrobin	42	ND
Etoxazole	284	ND	Oxamyl	1500	ND			

L Winternheimer

Karen Winternheimer 11/10/2022 12:28:00 PM

Samantha Smill

Sam Smith 11/10/2022 12:30:00 PM

PREPARED BY / DATE

APPROVED BY / DATE

Definitions

LOQ = Limit of Quantification ppb = Parts per Billion

Testing results are based solely upon the sample submitted to SC Laboratories, Inc. SC Laboratories, Inc. 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. All decision rulings are in accordance with the MED and results uploaded to METRC. This report may not be reproduced, except in full, without the written approval of SC Laboratories, Inc. ISO/IEC 17025:2017 Accredited A2LA Certificate Number 4329.01







Prepared for:

ORGANIC Full Spectrum Hemp Oil

Straight Hemp

Batch ID or Lot Number: 0022306	Test: Mycotoxins	Reported: 11/9/22	Location: 5135 W 58th Ave, Unit 5 Arvada, CO 80002
Matrix: Concentrate	Test ID: T000226811	Started: 11/8/22	USDA License: N/A
Status: Active	Method: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins	Received: 11/04/2022 @ 11:14 AM	Sampler ID: N/A

MYCOTOXIN DETERMINATION

Compound	Dynamic Range (ppb)	Result (ppb)	Notes	
Ochratoxin A	4 - 132.1	ND	N/A	
Aflatoxin B1	0.9 - 32.8	ND		
Aflatoxin B2	0.9 - 33.1	ND		
Aflatoxin G1	1 - 33.2	ND		
Aflatoxin G2	1 - 33.6	ND		
Total Aflatoxins (B1, B2, G1, and G2)		ND		

Samantha Smoll

Sam Smith 9-Nov-22 7:30 AM

PREPARED BY / DATE

L Winternheimer

APPROVED BY / DATE

Karen Winternheimer 9-Nov-22

Definitions

ND = None Detected (Defined by Dynamic Range of the method)

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Certificate #4329.02



EMSL Analytical, Inc.

5700 Memorial Highway, Suite 122, Tampa, FL 33615 Phone/Fax: (813)280-8752 / (813)280-8753

www.EMSL.com www.FoodTestingLab.com www.ShelfLifeStudy.com

EMSL Order #: 932206544
Customer ID: SHMP75

Customer PO:

Phone:

Fax: Not Available

Date Collected: 11/03/2022
Date Received: 11/4/2022

Date Analyzed: 11/9/2022

Report Date: 11/9/2022 Revision: R0

Food Microbiology Analytical Report

Lab Sample #: 932206544-0001

Attn:

Project: OO22306

Sample Identification: Full Spectrum Hemp Oil - 0022306

David Cole

Straight Hemp

4927 SW 41st Blvd Suite 40-50

Gainesville, FL 32608

dample identification:						
Test Parameter	<u>Result</u>	Detection Limit	<u>Methods</u>	<u>Comment</u>		
Aerobic Plate Count	<10 CFU/ mL	10 G FU / mL	PF-AOAC 990.12			
Yeast	<10 CFU/ mL	10 G FU / mL	PF-AOAC 997.02			
Mola	<10 CFU/ mL	10 G FU / mL	PF-AOAC 997.02			
Total Coliform	<10 CFU/ mL	10 G FU / mL	PF-AOAC991.14, 998.08			
Ecoli	<10 CFU/ mL	10 G FU / mL	PF-AOAC991.14, 998.08			
Staphylococcus aureus	<10 CFU/ mL	10 G FU / mL	PF-AOAC2003.07, 2003.08, 2003.11			



Attn:

David Cole

Straight Hemp

4927 SW 41st Blvd Suite 40-50

Gainesville, FL 32608

EMSL Analytical, Inc.

5700 Memorial Highway, Suite 122, Tampa, FL 33615 Phone/Fax: (813)280-8752 / (813)280-8753

www.EMSL.com www.FoodTestingLab.com www.ShelfLifeStudy.com

EMSL Order #: 932206544 Customer ID: SHMP75

Customer PO:

Phone:

Fax: Not Available

Date Collected: 11/03/2022
Date Received: 11/4/2022
Date Analyzed: 11/9/2022

Signature Page

Report Date 11/9/2022

Project: 0022306

Report Revision

Revision Comments
Initial Report

Gerald Jannuzzi, Laboratory Manager

or other approved signatory

About us



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Disclaimers

Presence / Absence (P/A) tests are enrichment-based and thus will not have a strict detection limit calculation, for the purposes of determining the sensitivity to apply, the amount of sample tested is listed. The term "None Detected" or "Absent" denotes that the microorganism / group was not recovered at or above the listed detection limit, but does not necessarily denote "zero level" or absence of that parameter.

NOTE: These results are valid only for those samples analyzed, and only for those samples collected in accordance with appropriate methodology as determined by the customer. This report is not intended for FDA Import Detention Reporting, and has not been prepared in compliance with FDA Import / Export regulations. The results herein do not denote or represent a medical or clinical diagnosis or conclusion. In the event that sample(s) were submitted in opened, used, non-sterile or otherwise adulterated condition, EMSL shall not be responsible or liable. Only data derived directly from analysis conducted by the laboratory has been validated. The results reported herein are for summary purposes only and do not represent any opinion or conclusion on the part of EMSL Analytical, Inc. "Analysis Date" represents latest date of analysis for samples included on report. Analysis dates for all samples are available upon request. Samples received in good condition, unless otherwise noted. This report may not be reproduced, except in full, without written approval by an authorized EMSL representative.

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