



Organic Hemp Extract: Full Spectrum

Batch ID or Lot Number:	Test:	Reported:	Location:
O-1107-0913-RE-OFSE	Potency	9/19/22	610 S. Lipan St Denver, CO 80223
Matrix:	Test ID:	Started:	USDA License:
Concentrate	T000221310	9/15/22	N/A
Status:	Method:	Received:	Sampler ID:
Active	TM14 (HPLC-DAD): Potency - Standard Cannabinoid Analysis	09/14/2022 @ 10:39 AM	N/A

CANNABINOID PROFILE

Compound	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Notes
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.102	0.343	ND	ND	N/A
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.116	0.387	1.883	18.83	
Cannabidiolic acid (CBDA)	0.139	0.404	1.210	12.10	
Cannabidiol (CBD)	0.136	0.394	59.228	592.28	
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.127	0.426	<LOQ	2.22	
Cannabinolic Acid (CBNA)	0.073	0.244	ND	ND	
Cannabinol (CBN)	0.033	0.112	0.134	1.34	
Cannabigerolic acid (CBGA)	0.107	0.358	ND	ND	
Cannabigerol (CBG)	0.026	0.086	1.586	15.86	
Tetrahydrocannabivarinic Acid (THCVA)	0.090	0.303	ND	ND	
Tetrahydrocannabivarin (THCV)	0.023	0.078	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.058	0.168	ND	ND	
Cannabidivarin (CBDV)	0.032	0.093	0.532	5.32	
Cannabichromenic Acid (CBCA)	0.041	0.138	ND	ND	
Cannabichromene (CBC)	0.045	0.151	3.760	37.60	
Total Cannabinoids			68.555	685.55	
Total Potential THC**			1.883	18.83	
Total Potential CBD**			60.289	602.89	

 Daniel Weidensaul
19-Sep-22
1:59 PM

 Jacob Miller
19-Sep-22
2:01 PM

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

Organic Hemp Extract: Full Spectrum

Batch ID or Lot Number: O-1107-0913-RE-OFSE	Test: Microbial Contaminants	Reported: 19Sep2022	USDA License: N/A
Matrix: Concentrate	Test ID: T000221312	Started: 14Sep2022	Sampler ID: N/A
	Method(s): TM25 (qPCR) TM24, TM26, TM27 (Culture Plating): Microbial (Colorado Panel)	Received: 14Sep2022	Status: Active

Microbial

Contaminants

	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10 ⁰ CFU/25g	NA	Absent	Free from visual mold, mildew, and foreign matter
<i>Salmonella</i>	TM25: PCR	10 ⁰ CFU/25g	NA	Absent	
Total Yeast and Mold*	TM24: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	None Detected	
Total Aerobic Count*	TM26: Culture Plating	10 ² CFU/g	1.0x10 ³ - 1.5x10 ⁵	None Detected	
Total Coliforms*	TM27: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	None Detected	

Final Approval



Jacob Folkerts
17Sep2022
08:33:00 AM MDT



Brett Hudson
19Sep2022
10:14:00 AM MDT



PREPARED BY / DATE

APPROVED BY / DATE

<https://results.botanacor.com/api/v1/coas/uuid/ba76796a-e8c1-41ed-86b9-0561a78bc3d5>

Definitions

* Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form. Examples: 10² = 100 CFU, 10³ = 1,000 CFU, 10⁴ = 10,000 CFU, 10⁵ = 100,000 CFU
CFU/g = Colony Forming Units per Gram, LOD = Limit of Detection
ULOQ = Upper Limit of Quantitation, LLOQ = Lower Limit of Quantitation
STEC = Shiga Toxin-Producing E. coli

Testing results are based solely upon the sample submitted to SC Laboratories, Inc., in the condition it was received. 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. This report may not be reproduced, except in full, without the written approval of SC Laboratories, Inc. ISO/IEC 17025:2017 Accredited by A2LA.



Cert #4329.02



CDPHE Certified

ba76796ae8c141ed86b90561a78bc3d5.1

Organic Hemp Extract: Full Spectrum


Batch ID or Lot Number: O-1107-0913-RE-OFSE	Test: Mycotoxins	Reported: 9/20/22	Location: 610 S. Lipan St Denver, CO 80223
Matrix: Concentrate	Test ID: T000221315	Started: 9/19/22	USDA License: N/A
Status: Active	Method: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins	Received: 09/14/2022 @ 10:39 AM	Sampler ID: N/A

MYCOTOXIN DETERMINATION

Compound	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	1.7 - 134.5	ND	N/A
Aflatoxin B1	1 - 33.1	ND	
Aflatoxin B2	1 - 33.7	ND	
Aflatoxin G1	1 - 33.6	ND	
Aflatoxin G2	1.1 - 33.8	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

 Jacob Miller
20-Sep-22
2:10 PM

PREPARED BY / DATE

 Sam Smith
20-Sep-22
2:14 PM

APPROVED BY / DATE

Definitions

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



Certificate #4329.02

Organic Hemp Extract: Full Spectrum

Batch ID or Lot Number: O-1107-0913-RE-OFSE	Test: Pesticides	Reported: 9/21/22	Location: 610 S. Lipan St Denver, CO 80223
Matrix: Concentrate	Test ID: T000221311	Started: 9/21/22	USDA License: N/A
Status: N/A	Method: TM17(LC-QQQ LC MS/MS):	Received: 09/14/2022 @ 10:39 AM	Sampler ID: N/A

PESTICIDE DETERMINATION

Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)
Acephate	41	ND	Fenoxycarb	42	ND	Paclobutrazol	41	ND
Acetamiprid	42	ND	Fipronil	47	ND	Permethrin	274	ND
Abamectin	258	ND	Flonicamid	46	ND	Phosmet	43	ND
Azoxystrobin	44	ND	Fludioxonil	283	ND	Prophos	284	ND
Bifenazate	43	ND	Hexythiazox	38	ND	Propoxur	41	ND
Boscalid	44	ND	Imazalil	278	ND	Pyridaben	292	ND
Carbaryl	40	ND	Imidacloprid	41	ND	Spinosad A	33	ND
Carbofuran	41	ND	Kresoxim-methyl	150	ND	Spinosad D	46	ND
Chlorantraniliprole	40	ND	Malathion	295	ND	Spiromesifen	277	ND
Chlorpyrifos	500	ND	Metalaxyl	42	ND	Spirotetramat	280	ND
Clofentezine	265	ND	Methiocarb	43	ND	Spiroxamine 1	19	ND
Diazinon	289	ND	Methomyl	36	ND	Spiroxamine 2	25	ND
Dichlorvos	281	ND	MGK 264 1	164	ND	Tebuconazole	275	ND
Dimethoate	40	ND	MGK 264 2	107	ND	Thiacloprid	40	ND
E-Fenpyroximate	276	ND	Myclobutanil	48	ND	Thiamethoxam	39	ND
Etofenprox	41	ND	Naled	46	ND	Trifloxystrobin	43	ND
Etoxazole	295	ND	Oxamyl	1500	ND			

Sam Smith
Sam Smith
9/21/2022
3:18:00 PM

Daniel Weidensaul
Daniel Weidensaul
9/21/2022
3:21:00 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



Certificate #4329.02

Organic Hemp Extract: Full Spectrum

Batch ID or Lot Number: O-1107-0913-RE-OFSE	Test: Residual Solvents	Reported: 16Sep2022	USDA License: N/A
Matrix: Concentrate	Test ID: T000221314	Started: 16Sep2022	Sampler ID: N/A
	Method(s): TM04 (GC-MS): Residual Solvents	Received: 14Sep2022	Status: Active

Residual Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	94 - 1881	ND	
Butanes (Isobutane, n-Butane)	198 - 3961	ND	
Methanol	61 - 1226	ND	
Pentane	104 - 2072	ND	
Ethanol	104 - 2077	ND	
Acetone	104 - 2071	ND	
Isopropyl Alcohol	107 - 2138	ND	
Hexane	6 - 126	ND	
Ethyl Acetate	105 - 2094	ND	
Benzene	0.2 - 4.0	ND	
Heptanes	103 - 2069	ND	
Toluene	18 - 366	ND	
Xylenes (m,p,o-Xylenes)	134 - 2677	ND	

Final Approval



Daniel Weidensaul
16Sep2022
03:43:00 PM MDT

PREPARED BY / DATE



Jacob Miller
16Sep2022
03:44:00 PM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/10073d7b-f315-403d-8d0f-4d7f8bfa42b>

Definitions

ND = None Detected (defined by dynamic range of the method)
Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

Testing results are based solely upon the sample submitted to SC Laboratories, Inc., in the condition it was received. 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. This report may not be reproduced, except in full, without the written approval of SC Laboratories, Inc. ISO/IEC 17025:2017 Accredited by A2LA.



Cert #4329.02



CDPHE Certified


10073d7b-f315-403d-8d0f-4d7f8bfa42b.1

Organic Hemp Extract: Full Spectrum

Batch ID or Lot Number: O-1107-0913-RE-OFSE	Test: Metals	Reported: 9/19/22	Location: 610 S. Lipan St Denver, CO 80223
Matrix: Concentrate Co	Test ID: T000221313	Started: 9/19/22	USDA License: N/A
Status: Active	Method: TM19 (ICP-MS): Heavy Metals	Received: 09/14/2022 @ 10:39 AM	Sampler ID: N/A

HEAVY METALS DETERMINATION

Compound	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.045 - 4.48	ND	
Cadmium	0.044 - 4.39	ND	
Mercury	0.044 - 4.42	ND	
Lead	0.041 - 4.11	ND	

 Daniel Weidensaul
19-Sep-22
3:31 PM

PREPARED BY / DATE

 Courtney Richards
19-Sep-22
4:43 PM

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.



Certificate #4329.02