

Prepared for:

### **Colorado Botanicals**

# **Full Spectrum Hemp Extract**

Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	Page 1 of 6
<b>Z-210923</b>	Various	Concentrate	
Reported:	Started:	Received:	
18Apr2022	15Apr2022	15Apr2022	

# **Microbial Contaminants -Colorado Compliance**

Test ID: T000203273

Methods: TM25 (qPCR) TM24, TM26, TM27 (Culture Plating): Microbial

TM27 (Culture Plating): Microbial			Quantitation		
(Colorado Panel)	Method	LOD	Range	Result	Notes
STEC	TM25: PCR	10 <sup>0</sup> CFU/25g	NA	Absent	Free fro foreign
Salmonella	TM25: PCR	10 <sup>0</sup> CFU/25g	NA	Absent	- Toreign
Total Yeast and Mold*	TM24: Culture Plating	10 <sup>1</sup> CFU/g	1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup>	None Detected	
Total Aerobic Count*	TM26: Culture Plating	10 <sup>2</sup> CFU/g	1.0x10 <sup>3</sup> - 1.5x10 <sup>5</sup>	None Detected	
Total Coliforms*	TM27: Culture Plating	10 <sup>1</sup> CFU/g	1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup>	None Detected	_

Free from visual mold, mildew, and foreign matter

**Final Approval** 

Buanne Maillot 18Apr2022

Brianne Maillot 01:53:00 PM MDT

Jackson Osaghae-Nosa 18Apr2022 03:14:00 PM MDT

PREPARED BY / DATE



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# Residual Solvents -Colorado Compliance

Test ID: T000203275

Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	99 - 1976	ND	
Butanes (Isobutane, n-Butane)	201 - 4027	ND	
Methanol	62 - 1243	ND	
Pentane	102 - 2043	ND	
Ethanol	105 - 2099	ND	
Acetone	103 - 2061	ND	
Isopropyl Alcohol	101 - 2023	ND	
Hexane	6 - 124	ND	
Ethyl Acetate	102 - 2046	ND	
Benzene	0.2 - 4.2	ND	
Heptanes	98 - 1952	ND	
Toluene	18 - 367	ND	
Xylenes (m,p,o-Xylenes)	130 - 2590	ND	

**Final Approval** 

Hannah Wright 19Apr2022 04:38:00 PM MDT

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Ryan Weems 19Apr2022 04:52:00 PM MDT



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# Cannabinoids - Colorado Compliance

Test ID: T000203271

Methods: TM14 (HPLC-DAD): Potency - Broad

<b>LOD</b> (%)	LOQ (%)	Result (%)	Result (mg/g)	Note
0.067	0.164	0.986	9.86	
0.061	0.150	ND	ND	
0.252	0.454	82.655	826.55	
0.259	0.466	ND	ND	
0.060	0.107	0.945	9.45	
0.108	0.194	ND	ND	
0.038	0.093	1.761	17.61	
0.159	0.389	ND	ND	
0.050	0.121	0.145	1.45	
0.108	0.265	ND	ND	
0.189	0.463	ND	ND	
0.004	0.009	2.969	29.69	
0.003	0.008	0.028	0.28	
0.035	0.085	0.035*	0.35*	
0.134	0.329	ND	ND	
		89.524	895.24	•
		2.994	29.94	
		82.655	826.55	
	0.067 0.061 0.252 0.259 0.060 0.108 0.038 0.159 0.050 0.108 0.189 0.004 0.003 0.003	0.067 0.164   0.061 0.150   0.252 0.454   0.259 0.466   0.060 0.107   0.108 0.194   0.038 0.093   0.159 0.389   0.050 0.121   0.108 0.265   0.189 0.463   0.004 0.009   0.003 0.008   0.035 0.085	0.067   0.164   0.986     0.061   0.150   ND     0.252   0.454   82.655     0.259   0.466   ND     0.060   0.107   0.945     0.108   0.194   ND     0.038   0.093   1.761     0.159   0.389   ND     0.050   0.121   0.145     0.108   0.265   ND     0.189   0.463   ND     0.004   0.009   2.969     0.003   0.008   0.028     0.035   0.085   0.035*     0.134   0.329   ND     89.524   2.994	0.067   0.164   0.986   9.86     0.061   0.150   ND   ND     0.252   0.454   82.655   826.55     0.259   0.466   ND   ND     0.060   0.107   0.945   9.45     0.108   0.194   ND   ND     0.038   0.093   1.761   17.61     0.159   0.389   ND   ND     0.050   0.121   0.145   1.45     0.108   0.265   ND   ND     0.189   0.463   ND   ND     0.004   0.009   2.969   29.69     0.003   0.008   0.028   0.28     0.035   0.085   0.035*   0.35*     0.134   0.329   ND   ND     89.524   2.994   29.94

#### **Final Approval**

Daniel Westersaul

Daniel Weidensaul 20Apr2022 02:43:00 PM MDT

Mygn Vens

20Apr2022 03:41:00 PM MDT

PREPARED BY / DATE

E APPROVED BY / DATE

# Heavy Metals -Colorado Compliance

Test ID: T000203274

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.13	ND	
Cadmium	0.04 - 4.37	ND	
Mercury	0.04 - 4.01	ND	•
Lead	0.04 - 4.02	ND	•

#### **Final Approval**

Daniel Wordonsaul

PREPARED BY / DATE

Daniel Weidensaul 20Apr2022 05:14:00 PM MDT

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Ryan Weems 20Apr2022 05:25:00 PM MDT



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# **Mycotoxins - Colorado** Compliance

Test ID: T000203276

Methods: TM18 (UHPLC-QQQ

LCMS/MS): Mycotoxins	<b>Dynamic Range</b> (ppb)	Result (ppb)	Notes
Ochratoxin A	1.53 - 124.70	ND	N/A
Aflatoxin B1	1.04 - 32.38	ND	
Aflatoxin B2	1.20 - 31.92	ND	
Aflatoxin G1	1.10 - 31.89	ND	
Aflatoxin G2	1.35 - 30.78	ND	
Total Aflatoxins (B1, B2, G1, ar	nd G2)	ND	

#### **Final Approval**

PREPARED BY / DATE

Ryan Weems 20Apr2022

Sam Smith 20Apr2022 Samantha Smill 01:02:00 PM MDT



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### **Pesticides**

Test ID: T000203272 Methods: TM17

(LC-QQ LC MS/MS)	<b>Dynamic Range</b> (ppb)	Result (ppb)
Abamectin	341 - 2597	ND
Acephate	46 - 2776	ND
Acetamiprid	37 - 2805	ND
Azoxystrobin	44 - 2691	ND
Bifenazate	43 - 2724	ND
Boscalid	80 - 2676	ND
Carbaryl	40 - 2777	ND
Carbofuran	44 - 2774	ND
Chlorantraniliprole	53 - 2654	ND
Chlorpyrifos	50 - 2706	ND
Clofentezine	282 - 2755	ND
Diazinon	277 - 2781	ND
Dichlorvos	249 - 2827	ND
Dimethoate	41 - 2778	ND
E-Fenpyroximate	296 - 2597	ND
Etofenprox	39 - 2737	ND
Etoxazole	280 - 2707	ND
Fenoxycarb	41 - 2786	ND
Fipronil	85 - 2589	ND
Flonicamid	38 - 2820	ND
Fludioxonil	320 - 2707	ND
Hexythiazox	47 - 2730	ND
Imazalil	277 - 2840	ND
Imidacloprid	44 - 2773	ND
Kresoxim-methyl	56 - 2658	ND

	<b>Dynamic Range</b> (ppb)	Result (ppb)
Malathion	285 - 2779	ND
Metalaxyl	47 - 2796	ND
Methiocarb	46 - 2714	ND
Methomyl	40 - 2812	ND
MGK 264 1	190 - 1563	ND
MGK 264 2	126 - 1114	ND
Myclobutanil	40 - 2766	ND
Naled	41 - 2784	ND
Oxamyl	36 - 2821	ND
Paclobutrazol	40 - 2764	ND
Permethrin	272 - 2650	ND
Phosmet	41 - 2792	ND
Prophos	302 - 2728	ND
Propoxur	42 - 2732	ND
Pyridaben	268 - 2712	ND
Spinosad A	36 - 2214	ND
Spinosad D	53 - 487	ND
Spiromesifen	276 - 2733	ND
Spirotetramat	325 - 2636	ND
Spiroxamine 1	18 - 1151	ND
Spiroxamine 2	24 - 1544	ND
Tebuconazole	277 - 2813	ND
Thiacloprid	42 - 2792	ND
Thiamethoxam	44 - 2845	ND
Trifloxystrobin	42 - 2720	ND

#### **Final Approval**

PREPARED BY / DATE

Ryan Weems 21Apr2022 12:42:00 PM MDT

Sawantha Smid 21Apr2022 12:49:00 PM MDT

Sam Smith



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https://results.botanacor.com/api/v1/coas/uuid/30bc26a9-a9ae-4a34-b2e3-0a4c44c2be7c

#### Definitions

LOD = Limit of Detection, ULOQ = Upper Limit of Quantitation, LLOQ = Lower Limit of Quantitation, PPB = Parts per Billion, % = % (w/w) = Percent (weight of analyte / weight of product). ND = None Detected (defined by dynamic range of the method). Total Potential Delta 9-THC or CBD is calculated to take into account the loss of a carboxyl group during decarboxylation step, using the following formulas: Total Potential Delta 9-THC = Delta 9-THC + (Delta 9-THCa \*(0.877)) and Total CBD = CBD + (CBDa \*(0.877)). Fail equates to a concentration level of Delta 9-THC, on a dry weight basis, higher than 0.3 percent + or - the measurement uncertainty. Total Potential THC 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)). ALOQ = Above Limit Of Quantitation (defined by dynamic range of the method), CFU/g = Colony Forming Units per Gram. Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form. Examples: 10^2 = 100 CFU, 10^3 = 1,000 CFU, 10^4 = 10,000 CFU, 10^5 = 100,000 CFU.

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 17025:2017 Accredited by A2LA. Some tests listed on this COA may not be within our scope of A2LA accreditation. Please visit A2LA for more details.







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