

Prepared for:
Plant Science Laboratories

649 Wyoming Ave
Buffalo, NY USA 14215

Full Spec Hemp Distillate Powder Capsules 50mg CBD

Batch ID or Lot Number: P-22500-09-C	Test, Test ID and Methods: Various	Matrix: Unit	Page 1 of 5
Reported: 27Sep2022	Started: 27Sep2022	Received: 27Sep2022	

Heavy Metals

Test ID: T000222417

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.11	ND	
Cadmium	0.04 - 4.35	ND	
Mercury	0.04 - 4.42	ND	
Lead	0.04 - 4.12	ND	

Final Approval


Samantha Smith
28Sep2022
07:49:00 PM MDT

PREPARED BY / DATE


Daniel Weidensaul
28Sep2022
08:07:00 PM MDT

APPROVED BY / DATE

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Pesticides

Test ID: T000222416

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	258 - 2788	ND		Malathion	297 - 2704	ND
Acephate	40 - 2777	ND		Metalaxyl	46 - 2717	ND
Acetamiprid	43 - 2718	ND		Methiocarb	44 - 2745	ND
Azoxystrobin	50 - 2739	ND		Methomyl	41 - 2756	ND
Bifenazate	43 - 2730	ND		MGK 264 1	178 - 1652	ND
Boscalid	44 - 2781	ND		MGK 264 2	110 - 1142	ND
Carbaryl	41 - 2719	ND		Myclobutanil	35 - 2704	ND
Carbofuran	42 - 2717	ND		Naled	44 - 2816	ND
Chlorantraniliprole	46 - 2769	ND		Oxamyl	42 - 2743	ND
Chlorpyrifos	67 - 2697	ND		Paclobutrazol	42 - 2742	ND
Clofentezine	286 - 2773	ND		Permethrin	291 - 2737	ND
Diazinon	284 - 2700	ND		Phosmet	47 - 2722	ND
Dichlorvos	270 - 2744	ND		Prophos	304 - 2712	ND
Dimethoate	43 - 2711	ND		Propoxur	42 - 2737	ND
E-Fenpyroximate	299 - 2730	ND		Pyridaben	296 - 2663	ND
Etofenprox	42 - 2730	ND		Spinosad A	35 - 2256	ND
Etoxazole	300 - 2688	ND		Spinosad D	49 - 498	ND
Fenoxycarb	46 - 2726	ND		Spiromesifen	292 - 2721	ND
Fipronil	47 - 2671	ND		Spirotetramat	289 - 2803	ND
Flonicamid	44 - 2735	ND		Spiroxamine 1	19 - 1185	ND
Fludioxonil	282 - 2791	ND		Spiroxamine 2	24 - 1554	ND
Hexythiazox	43 - 2709	ND		Tebuconazole	286 - 2710	ND
Imazalil	277 - 2761	ND		Thiacloprid	42 - 2716	ND
Imidacloprid	41 - 2705	ND		Thiamethoxam	41 - 2745	ND
Kresoxim-methyl	47 - 2760	ND		Trifloxystrobin	45 - 2740	ND

Final Approval


Daniel Weidensaul
28Sep2022
03:23:00 PM MDT
PREPARED BY / DATE


Sam Smith
28Sep2022
03:28:00 PM MDT
APPROVED BY / DATE

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Residual Solvents

Test ID: T000222418

Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	99 - 1987	ND	
Butanes (Isobutane, n-Butane)	207 - 4135	ND	
Methanol	60 - 1210	ND	
Pentane	106 - 2118	ND	
Ethanol	90 - 1803	ND	
Acetone	101 - 2014	ND	
Isopropyl Alcohol	89 - 1778	ND	
Hexane	6 - 125	ND	
Ethyl Acetate	99 - 1974	ND	
Benzene	0.2 - 3.8	ND	
Heptanes	102 - 2040	ND	
Toluene	16 - 318	ND	
Xylenes (m,p,o-Xylenes)	105 - 2092	ND	

Final Approval


 Karen Winternheimer
 29Sep2022
 03:32:00 PM MDT
 PREPARED BY / DATE


 Jacob Miller
 29Sep2022
 03:35:00 PM MDT
 APPROVED BY / DATE

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Buffalo, NY USA 14215

Full Spec Hemp Distillate Powder Capsules 50mg CBD

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Cannabinoids

Test ID: T000222415

Methods: TM14 (HPLC-DAD)

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.106	0.311	1.380	1.90	# of Servings = 1, Sample Weight=0.727g
Cannabichromenic Acid (CBCA)	0.097	0.285	ND	ND	
Cannabidiol (CBD)	0.334	0.816	48.880	67.30	
Cannabidiolic Acid (CBDA)	0.343	0.837	ND	ND	
Cannabidivarin (CBDV)	0.079	0.193	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.143	0.349	ND	ND	
Cannabigerol (CBG)	0.060	0.177	0.280	0.40	
Cannabigerolic Acid (CBGA)	0.251	0.739	ND	ND	
Cannabinol (CBN)	0.078	0.231	0.350	0.50	
Cannabinolic Acid (CBNA)	0.171	0.504	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.299	0.880	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.272	0.799	0.560	0.80	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.241	0.708	ND	ND	
Tetrahydrocannabivarin (THCV)	0.055	0.161	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.213	0.625	ND	ND	
Total Cannabinoids			51.450	70.80	
Total Potential THC			0.560	0.77	
Total Potential CBD			48.880	67.27	

Final Approval


Karen Winternheimer
29Sep2022
05:45:00 PM MDT
PREPARED BY / DATE


Daniel Weidensaul
29Sep2022
05:47:00 PM MDT
APPROVED BY / DATE

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Mycotoxins

Test ID: T000222419

Methods: TM18 (UHPLC-QQQ)

LCMS/MS): Mycotoxins

	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	1.77 - 127.89	ND	N/A
Aflatoxin B1	0.90 - 32.03	ND	
Aflatoxin B2	0.90 - 32.00	ND	
Aflatoxin G1	0.87 - 32.10	ND	
Aflatoxin G2	0.90 - 32.38	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval



Jacob Miller
30Sep2022
11:09:00 AM MDT
PREPARED BY / DATE



Sam Smith
30Sep2022
11:13:00 AM MDT
APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/efe7246a-ba9a-4a8f-87f4-865003c520de>

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: 10² = 100 CFU, 10³ = 1,000 CFU, 10⁴ = 10,000 CFU, 10⁵ = 100,000 CFU.

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. 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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