botanacor

CERTIFICATE OF ANALYSIS

Prepared for:
VetCS
6834 S University Blvd #225
Centennial, CO USA 80122

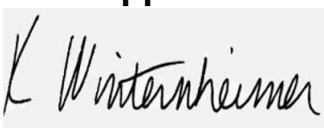
031622-Hemp Extract Paste-C0504

Batch ID or Lot Number:	Test:	Reported:	USDA License:
103361	**Potency**	**22Mar2022**	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000198489	21Mar2022	N/A
	Method(s):	Received:	Status:
	TM14 (HPLC-DAD)	17Mar2022	N/A

Cannabinoids

	LOD (%)	**LOQ** (%)	**Result** (%)	**Result** (mg/g)	**Notes**
Cannabichromene (CBC)	0.020	0.060	0.020	0.20	
Cannabichromenic Acid (CBCA)	0.018	0.054	ND	ND	
Cannabidiol (CBD)	0.054	0.160	7.790	77.90	
Cannabidiolic Acid (CBDA)	0.055	0.164	ND	ND	
Cannabidivarin (CBDV)	0.013	0.038	0.020	0.20	
Cannabidivarinic Acid (CBDVA)	0.023	0.068	ND	ND	
Cannabigerol (CBG)	0.011	0.034	0.180	1.80	
Cannabigerolic Acid (CBGA)	0.047	0.141	ND	ND	
Cannabinol (CBN)	0.015	0.044	0.090	0.90	
Cannabinolic Acid (CBNA)	0.032	0.096	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.056	0.168	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.051	0.153	0.270	2.70	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.045	0.135	ND	ND	
Tetrahydrocannabivarin (THCV)	0.010	0.031	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.040	0.119	ND	ND	
Total Cannabinoids			**8.370**	**83.70**	
Total Potential THC**			0.270	2.70	
Total Potential CBD**			7.790	77.90	

Final Approval



Karen Winternheimer
22Mar2022
02:55:00 PM MDT
PREPARED BY / DATE

Ryan Weems
22Mar2022
03:03:00 PM MDT
APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/cdaa1029-a70e-4027-bee2-3c50b49419fe

Definitions
% = % (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)).

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Centennial, CO USA 80122

031622-Hemp Extract Paste-C0504

Batch ID or Lot Number:	Test:	Reported:	USDA License:
103361	**Microbial Contaminants**	**21Mar2022**	NA
Matrix:	Test ID:	Started:	Sampler ID:
Finished Product	T000198492	18Mar2022	NA
	Method(s): TM25 (qPCR) TM24, TM26, TM27, TM28 (Culture Plating)	Received: 17Mar2022	Status: NA

Microbial Contaminants

	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10^0 CFU/g	NA	Absent	Free from visual mold, mildew, and foreign matter
Salmonella	TM25: PCR	10^0 CFU/g	NA	Absent	None Detected
Total Yeast and Mold*	TM24: Culture Plating	10^1 CFU/g	$1.0x10^2$ - $1.5x10^4$	None Detected	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

Jackson Osaghae-Nosa
21Mar2022
04:04:00 PM MDT
PREPARED BY / DATE

Brett Hudson
21Mar2022
04:13:00 PM MDT
APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/dc1c3447-c6a6-42bf-9ff4-e2e909cea5e6

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: 10^2 = 100 CFU, 10^3 = 1,000 CFU, 10^4 = 10,000 CFU, 10^5 = 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

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VetCS
6834 S University Blvd #225
Centennial, CO USA 80122

031622-Hemp Extract Paste-C0504

Batch ID or Lot Number:	Test:	Reported:	USDA License:
103361	**Residual Solvents**	**21Mar2022**	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000198494	21Mar2022	N/A
	Method(s):	Received:	Status:
	TM04 (GC-MS): Residual Solvents	17Mar2022	N/A

Residual Solvents

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Propane	69 - 1377	ND	
Butanes (Isobutane, n-Butane)	145 - 2893	ND	
Methanol	53 - 1067	ND	
Pentane	78 - 1567	ND	
Ethanol	88 - 1766	ND	
Acetone	90 - 1793	ND	
Isopropyl Alcohol	93 - 1854	ND	
Hexane	5 - 100	ND	
Ethyl Acetate	85 - 1701	ND	
Benzene	0.2 - 3.5	ND	
Heptanes	87 - 1747	ND	
Toluene	17 - 340	ND	
Xylenes (m,p,o-Xylenes)	126 - 2514	ND	

Final Approval

Hannah Wright
21Mar2022
04:01:00 PM MDT
PREPARED BY / DATE

Ryan Weems
21Mar2022
04:05:00 PM MDT
APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/3aa09d96-1e9f-4b10-bc02-baaf89b85e08

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

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Prepared for:

031622-Hemp Extract Paste-C0504

VetCS

Batch ID or Lot Number:	Test:	Reported:	Location:
103361	**Metals**	**3/23/22**	6834 S University Blvd #225 Centennial, CO 80122

Matrix:	Test ID:	Started:	USDA License:
Unit	T000198493	3/22/22	N/A

Status:	Method:	Received:	Sampler ID:
N/A	TM19 (ICP-MS): Heavy Metals	03/17/2022 @ 01:50 PM	N/A

HEAVY METALS DETERMINATION

Compound	Dynamic Range (ppm)	Result (ppm)
Arsenic	0.047 - 4.69	ND
Cadmium	0.048 - 4.81	ND
Mercury	0.047 - 4.68	ND
Lead	0.045 - 4.47	ND

Notes

Kayla Phye
23-Mar-22
11:03 AM
PREPARED BY / DATE

Ryan Weems
23-Mar-22
11:06 AM
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.

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Certificate #4329.02

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CERTIFICATE OF ANALYSIS

Prepared for:

VetCS

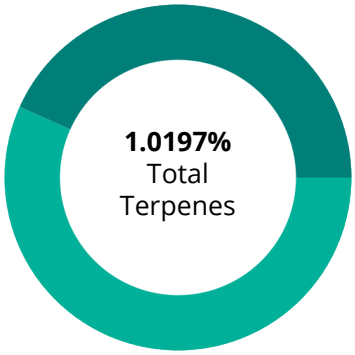
6834 S University Blvd #225
Centennial, CO USA 80122

031622-Hemp Extract Paste-C0504

Batch ID or Lot Number:	Test:	Reported:	USDA License:
103361	**Terpenes**	**23Mar2022**	NA
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000198490	22Mar2022	NA
	Method(s):	Received:	Status:
	TM22 (GC-MS)	17Mar2022	NA

Terpenes

	%(w/w)	(mg/g)
(-)-alpha-Bisabolol	0.0000	0.0000
(-)-beta-Pinene	0.0000	0.0000
(-)-Caryophyllene Oxide	0.0000	0.0000
(-)-Isopulegol	0.0000	0.0000
alpha-Humulene	0.0000	0.0000
alpha-Pinene	0.0000	0.0000
alpha-Terpinene	0.0000	0.0000
beta-Caryophyllene	0.2923	2.923
beta-Myrcene	0.3447	3.447
beta-Ocimene	0.0000	0.0000
Camphene	0.0000	0.0000
cis-Nerolidol	0.0000	0.0000
d-Limonene	0.0000	0.0000
delta-3-Carene	0.0000	0.0000
Eucalyptol	0.0000	0.0000
gamma-Terpinene	0.0000	0.0000
Geraniol	0.0000	0.0000
Linalool	0.3827	3.827
Ocimene	0.0000	0.0000
p-Cymene	0.0000	0.0000
Terpinolene	0.0000	0.0000
trans-Nerolidol	0.0000	0.0000
	1.0197	**10.1970**



PREDOMINANT TERPENES

(-)-alpha-Bisabolol	0.0000
(-)-beta-Pinene	0.0000
alpha-Humulene	0.0000
alpha-Pinene	0.0000
alpha-Terpinene	0.0000
beta-Caryophyllene	0.2923
d-Limonene	0.0000
delta-3-Carene	0.0000
Linalool	0.3827

Notes

Final Approval

Ryan Weems
23Mar2022
03:58:00 PM MDT
PREPARED BY / DATE

Jacob Miller
23Mar2022
03:59:00 PM MDT
APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/c6b91817-49e3-4abf-9bd0-c41c4d4ab8cf

Cert #4329.02
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031622-Hemp Extract Paste-C0504

Batch ID or Lot Number:	Test:	Reported:	USDA License:
103361	**Pesticides**	**23Mar2022**	NA
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000198491	22Mar2022	NA
	Method(s):	Received:	Status:
	TM17 (LC-QQ LC MS/MS)	17Mar2022	NA

Pesticides

	Dynamic Range (ppb)	**Result** (ppb)
Abamectin	268 - 2628	ND
Acephate	54 - 2782	ND
Acetamiprid	56 - 2751	ND
Azoxystrobin	54 - 2689	ND
Bifenazate	50 - 2707	ND
Boscalid	44 - 2790	ND
Carbaryl	52 - 2744	ND
Carbofuran	52 - 2726	ND
Chlorantraniliprole	66 - 2748	ND
Chlorpyrifos	59 - 2643	ND
Clofentezine	285 - 2738	ND
Diazinon	294 - 2695	ND
Dichlorvos	282 - 2748	ND
Dimethoate	54 - 2756	ND
E-Fenpyroximate	277 - 2686	ND
Etofenprox	56 - 2658	ND
Etoxazole	302 - 2677	ND
Fenoxycarb	54 - 2703	ND
Fipronil	54 - 2817	ND
Flonicamid	61 - 2793	ND
Fludioxonil	300 - 2776	ND
Hexythiazox	52 - 2687	ND
Imazalil	283 - 2724	ND
Imidacloprid	66 - 2751	ND
Kresoxim-methyl	55 - 2730	ND

	Dynamic Range (ppb)	**Result** (ppb)
Malathion	301 - 2717	ND
Metalaxyl	53 - 2710	ND
Methiocarb	51 - 2763	ND
Methomyl	54 - 2771	ND
MGK 264 1	155 - 1660	ND
MGK 264 2	114 - 1142	ND
Myclobutanil	50 - 2756	ND
Naled	59 - 2805	ND
Oxamyl	51 - 2756	ND
Paclobutrazol	54 - 2716	ND
Permethrin	298 - 2709	ND
Phosmet	54 - 2702	ND
Prophos	309 - 2770	ND
Propoxur	50 - 2736	ND
Pyridaben	298 - 2676	ND
Spinosad A	44 - 2252	ND
Spinosad D	48 - 489	ND
Spiromesifen	275 - 2696	ND
Spirotetramat	296 - 2690	ND
Spiroxamine 1	21 - 1186	ND
Spiroxamine 2	28 - 1572	ND
Tebuconazole	301 - 2706	ND
Thiacloprid	55 - 2739	ND
Thiamethoxam	54 - 2767	ND
Trifloxystrobin	53 - 2758	ND

Final Approval

Sam Smith
23Mar2022
03:24:00 PM MDT
PREPARED BY / DATE

Daniel Weidensaul
23Mar2022
03:45:00 PM MDT
APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/7affe401-dccb-4e97-a49d-8875bbfdfdd4

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

Cert #4329.02
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