

Prepared for:

VetCS

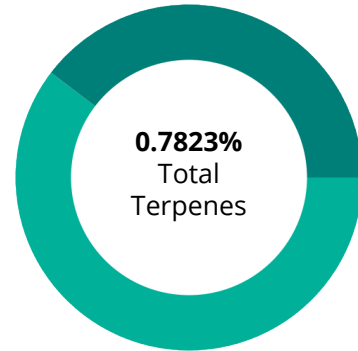
6834 S University Blvd #225
Centennial, CO USA 80122

020822-VetCS-33mg/ml Hemp Extract-C0504

Batch ID or Lot Number: 103359	Test: Terpenes	Reported: 22Feb2022	USDA License: NA
Matrix: Concentrate	Test ID: T000193768	Started: 21Feb2022	Sampler ID: NA
	Method(s): TM22 (GC-MS)	Received: 18Feb2022	Status: NA

Terpenes

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	0.2019	2.019
beta-Myrcene	0.2729	2.729
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	0.3075	3.075
Ocimene	0.0000	0.0000
p-Cymene	0.0000	0.0000
Terpinolene	0.0000	0.0000
trans-Nerolidol	0.0000	0.0000
	0.7823	7.8230



PREDOMINANT TERPENES

(-)-alpha-Bisabolol	0.0000
(-)-beta-Pinene	0.0000
alpha-Humulene	0.0000
alpha-Pinene	0.0000
alpha-Terpinene	0.0000
beta-Caryophyllene	0.2019
d-Limonene	0.0000
delta-3-Carene	0.0000
Linalool	0.3075

Notes

Final Approval



Daniel Weidensaul
22Feb2022
12:47:00 PM MST

PREPARED BY / DATE



Ryan Weems
22Feb2022
12:49:00 PM MST

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/bdcf5ead-2a22-420d-b840-75bd085caf8>

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Cert #4329.02
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Prepared for:


020822-VetCS-33mg/ml Hemp Extract-C0504
VetCS

Batch ID or Lot Number: 103359	Test: Microbial Contaminants	Reported: 2/14/22	Location: 6834 S University Blvd #225 Centennial, CO 80122
Matrix: Finished Product	Test ID: T000192011	Started: 2/10/22	USDA License: N/A
Status: N/A	Methods: TM25 (qPCR) TM24, TM26, TM27(Culture Plating): Microbial (Colorado Panel)	Received: 02/09/2022 @ 12:03 PM	Sampler ID: N/A

MICROBIAL CONTAMINANTS DETERMINATION

Contaminant	Method	LOD	LLOQ	ULOQ	Result	Notes
Total Aerobic Count*	TM-26, Culture Plating	10 ² CFU/g	10 ³ CFU/g	1.5x10 ⁵ CFU/g	None Detected	Free from visual mold, mildew, and foreign matter
Total Coliforms*	TM-27, Culture Plating	10 ¹ CFU/g	10 ² CFU/g	1.5x10 ⁴ CFU/g	None Detected	
Total Yeast and Mold*	TM-24, Culture Plating	10 ¹ CFU/g	10 ² CFU/g	1.5x10 ⁴ CFU/g	None Detected	
E. coli (STEC)	TM-25, PCR	1 CFU/25 g	NA	NA	Absent	
Salmonella	TM-25, PCR	1 CFU/25 g	NA	NA	Absent	


 Eden Thompson-Wright
 2/13/2022
 12:33:00 PM


 Brett Hudson
 2/14/2022
 9:52:00 AM

PREPARED BY / DATE

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Definitions

LOD = Limit of Detection | LLOQ = Lower Limit of Quantitation | ULOQ = Upper Limit of Quantitation

 CFU/g = Colony Forming Units per Gram | STEC = Shiga Toxin-Producing *E. coli*

* 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

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Prepared for:

020822-VetCS-33mg/ml Hemp Extract-C0504

VetCS


Batch ID or Lot Number: 103359	Test: Residual Solvents	Reported: 2/14/22	Location: 6834 S University Blvd #225 Centennial, CO 80122
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Matrix: N/A	Test ID: T000192013	Started: 2/10/22	USDA License: N/A
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Status: N/A	Methods: TM04 (GC-MS): Residual Solvents (Colorado Panel)	Received: 02/09/2022 @ 12:03 PM	Sampler ID: N/A
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RESIDUAL SOLVENTS DETERMINATION

Solvent	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	112 - 2240	*ND	
Butanes (Isobutane, n-Butane)	213 - 4267	*ND	
Methanol	60 - 1200	*ND	
Pentane	102 - 2047	*ND	
Ethanol	90 - 1801	*ND	
Acetone	99 - 1981	*ND	
Isopropyl Alcohol	100 - 2007	*ND	
Hexane	6 - 127	*ND	
Ethyl Acetate	99 - 1989	*ND	
Benzene	0.2 - 4.1	*ND	
Heptanes	100 - 1992	*ND	
Toluene	18 - 363	*ND	
Xylenes (m,p,o-Xylenes)	132 - 2645	*ND	


 Sam Smith
 14-Feb-22
 10:15 AM


 Ryan Weems
 14-Feb-22
 10:17 AM

PREPARED BY / DATE

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Definitions

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

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Prepared for:

020822-VetCS-33mg/ml Hemp Extract-C0504
VetCS

Batch ID or Lot Number: 103359	Test: Metals	Reported: 2/14/22	Location: 6834 S University Blvd #225 Centennial, CO 80122
Matrix: Unit Co	Test ID: T000192012	Started: 2/11/22	USDA License: N/A
Status: N/A	Method: TM19 (ICP-MS): Heavy Metals (Colorado Panel)	Received: 02/09/2022 @ 12:03 PM	Sampler ID: N/A

HEAVY METALS DETERMINATION

Compound	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.044 - 4.43	ND	
Cadmium	0.044 - 4.40	ND	
Mercury	0.044 - 4.37	ND	
Lead	0.044 - 4.39	ND	


 Ryan Weems
 14-Feb-22
 1:43 PM

PREPARED BY / DATE


 Daniel Weidensaul
 14-Feb-22
 2:10 PM

APPROVED BY / DATE

Definitions

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

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Prepared for:

020822-VetCS-33mg/ml Hemp Extract-C0504
VetCS


Batch ID or Lot Number: 103359	Test: Pesticides	Reported: 2/15/22	Location: 6834 S University Blvd #225 Centennial, CO 80122
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Matrix: Concentrate	Test ID: T000192010	Started: 2/14/22	USDA License: N/A
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Status: N/A	Method: TM17(LC-QQQ LC MS/MS):	Received: 02/09/2022 @ 12:03 PM	Sampler ID: N/A
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PESTICIDE DETERMINATION

Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)
Acephate	65	ND	Fenoxycarb	64	ND	Paclobutrazol	65	ND
Acetamiprid	67	ND	Fipronil	76	ND	Permethrin	293	ND
Avermectin	320	ND	Flonicamid	76	ND	Phosmet	60	ND
Azoxystrobin	65	ND	Fludioxonil	284	ND	Prophos	299	ND
Bifenazate	54	ND	Hexythiazox	66	ND	Propoxur	62	ND
Boscalid	65	ND	Imazalil	280	ND	Pyridaben	295	ND
Carbaryl	63	ND	Imidacloprid	75	ND	Spinosad A	51	ND
Carbofuran	65	ND	Kresoxim-methyl	150	ND	Spinosad D	51	ND
Chlorantraniliprole	62	ND	Malathion	301	ND	Spiromesifen	288	ND
Chlorpyrifos	500	ND	Metalaxyl	62	ND	Spirotetramat	277	ND
Clofentezine	290	ND	Methiocarb	65	ND	Spiroxamine 1	27	ND
Diazinon	288	ND	Methomyl	67	ND	Spiroxamine 2	37	ND
Dichlorvos	296	ND	MGK 264 1	161	ND	Tebuconazole	295	ND
Dimethoate	65	ND	MGK 264 2	116	ND	Thiacloprid	69	ND
E-Fenpyroximate	289	ND	Myclobutanil	59	ND	Thiamethoxam	71	ND
Etofenprox	66	ND	Naled	59	ND	Trifloxystrobin	64	ND
Etoxazole	296	ND	Oxamyl	1500	ND			


 Sam Smith
 2/15/2022
 10:37:00 AM


 Daniel Weidensaul
 2/15/2022
 10:45:00 AM

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Definitions

LOQ = Limit of Quantification
 ppb = Parts per Billion

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Prepared for:


020822-VetCS-33mg/ml Hemp Extract-C0504 VetCS

Batch ID or Lot Number: 103359	Test: Potency	Reported: 2/15/22	Location: 6834 S University Blvd #225 Centennial, CO 80122
Matrix: Concentrate	Test ID: T000192009	Started: 2/14/22	USDA License: N/A
Status: N/A	Method: TM14 (HPLC-DAD): Potency - Standard Cannabinoid Analysis (Colorado Panel)	Received: 02/09/2022 @ 12:03 PM	Sampler ID: N/A

CANNABINOID PROFILE

Compound	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Notes
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.014	0.047	ND	ND	N/A
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.016	0.053	0.118	1.18	
Cannabidiolic acid (CBDA)	0.015	0.055	ND	ND	
Cannabidiol (CBD)	0.014	0.054	3.505	35.05	
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.018	0.058	ND	ND	
Cannabinolic Acid (CBNA)	0.010	0.033	ND	ND	
Cannabinol (CBN)	0.005	0.015	0.040	0.40	
Cannabigerolic acid (CBGA)	0.015	0.049	ND	ND	
Cannabigerol (CBG)	0.004	0.012	0.079	0.79	
Tetrahydrocannabivarinic Acid (THCVA)	0.013	0.041	ND	ND	
Tetrahydrocannabivarin (THCV)	0.003	0.011	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.006	0.023	ND	ND	
Cannabidivarin (CBDV)	0.003	0.013	0.017	0.17	
Cannabichromenic Acid (CBCA)	0.006	0.019	ND	ND	
Cannabichromene (CBC)	0.006	0.021	0.011*	0.11*	
Total Cannabinoids			3.770	37.70	
Total Potential THC**			0.118	1.18	
Total Potential CBD**			3.505	35.05	


 Daniel Weidensaul
 15-Feb-2022
 06:37 PM


 Ryan Weems
 15-Feb-22
 6:39 PM

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Definitions

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

* Indicates a value below the Limit of Quantitation (LOQ) and above the Limit of Detection (LOD).

** Total Potential THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step.

$$\text{Total THC} = \text{THC} + (\text{THCa} * (0.877)) \text{ and}$$

$$\text{Total CBD} = \text{CBD} + (\text{CBDa} * (0.877))$$

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

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

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