

Prepared for:

VetCS

6834 S University Blvd #225

Centennial, CO USA 80122

040523-Hemp Extract Paste-C0504

Batch ID or Lot Number:

103380

Test, Test ID and Methods:

Various

Matrix:

Concentrate

Page 1 of 6

Reported:

07Apr2023

Started:

06Apr2023

Received:

05Apr2023

Pesticides

Test ID: T000240656

Methods: TM17

(LC-QQ LC MS/MS)

Dynamic Range (ppb)

Result (ppb)

Abamectin	382 - 2811	ND
Acephate	37 - 2762	ND
Acetamiprid	42 - 2735	ND
Azoxystrobin	42 - 2738	ND
Bifenazate	40 - 2715	ND
Boscalid	43 - 2784	ND
Carbaryl	42 - 2710	ND
Carbofuran	43 - 2720	ND
Chlorantraniliprole	37 - 2746	ND
Chlorpyrifos	46 - 2778	ND
Clofentezine	269 - 2773	ND
Diazinon	282 - 2754	ND
Dichlorvos	296 - 2724	ND
Dimethoate	43 - 2747	ND
E-Fenpyroximate	291 - 2794	ND
Etofenprox	43 - 2836	ND
Etoxazole	294 - 2770	ND
Fenoxycarb	39 - 2742	ND
Fipronil	35 - 2930	ND
Flonicamid	47 - 2779	ND
Fludioxonil	277 - 2816	ND
Hexythiazox	44 - 2808	ND
Imazalil	279 - 2726	ND
Imidacloprid	48 - 2748	ND
Kresoxim-methyl	25 - 2800	ND

Dynamic Range (ppb)

Result (ppb)

Malathion	293 - 2714	ND
Metalaxyl	43 - 2733	ND
Methiocarb	42 - 2732	ND
Methomyl	40 - 2755	ND
MGK 264 1	168 - 1617	ND
MGK 264 2	134 - 1131	ND
Myclobutanil	48 - 2792	ND
Naled	49 - 2788	ND
Oxamyl	40 - 2775	ND
Paclobutrazol	46 - 2721	ND
Permethrin	306 - 2775	ND
Phosmet	41 - 2765	ND
Prophos	289 - 2725	ND
Propoxur	41 - 2729	ND
Pyridaben	300 - 2826	ND
Spinosad A	34 - 2246	ND
Spinosad D	50 - 512	ND
Spiromesifen	266 - 2783	ND
Spirotetramat	274 - 2762	ND
Spiroxamine 1	18 - 1189	ND
Spiroxamine 2	25 - 1577	ND
Tebuconazole	283 - 2715	ND
Thiacloprid	44 - 2755	ND
Thiamethoxam	43 - 2798	ND
Trifloxystrobin	43 - 2770	ND

Final Approval



Karen Winternheimer

07Apr2023

11:15:00 AM MDT

PREPARED BY / DATE



Sam Smith

07Apr2023

11:22:00 AM MDT

APPROVED BY / DATE

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Reported: 07Apr2023	Started: 06Apr2023	Received: 05Apr2023	

Cannabinoids - Colorado Compliance

Test ID: T000240654

Methods: TM14 (HPLC-DAD): Potency – Standard

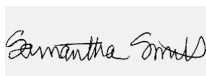
Cannabinoid Analysis	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.008	0.022	0.023	0.23	
Cannabichromenic Acid (CBCA)	0.007	0.020	ND	ND	
Cannabidiol (CBD)	0.019	0.056	7.320	73.20	
Cannabidiolic Acid (CBDA)	0.019	0.058	ND	ND	
Cannabidivarin (CBDV)	0.004	0.013	0.043	0.43	
Cannabidivarinic Acid (CBDVA)	0.008	0.024	ND	ND	
Cannabigerol (CBG)	0.004	0.012	0.174	1.74	
Cannabigerolic Acid (CBGA)	0.018	0.052	ND	ND	
Cannabinol (CBN)	0.006	0.016	0.090	0.90	
Cannabinolic Acid (CBNA)	0.012	0.035	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.021	0.062	<LOQ	<LOQ	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.019	0.056	0.276	2.76	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.017	0.050	ND	ND	
Tetrahydrocannabivarin (THCV)	0.004	0.011	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.015	0.044	ND	ND	
Total Cannabinoids			7.926	79.26	
Total Potential THC			0.276	2.76	
Total Potential CBD			7.320	73.20	

Final Approval


K Winternheimer

Karen Winternheimer
07Apr2023
12:56:00 PM MDT

PREPARED BY / DATE


Samantha Smith

Sam Smith
07Apr2023
01:01:00 PM MDT

APPROVED BY / DATE

Heavy Metals - Colorado Compliance

Test ID: T000240658

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.11	ND	
Cadmium	0.04 - 4.27	ND	
Mercury	0.04 - 4.16	ND	
Lead	0.04 - 4.17	ND	

Final Approval


Samantha Smith

Sam Smith
07Apr2023
03:09:00 PM MDT

PREPARED BY / DATE


K Winternheimer

Karen Winternheimer
07Apr2023
03:11:00 PM MDT

APPROVED BY / DATE

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Reported: 07Apr2023	Started: 06Apr2023	Received: 05Apr2023	

Residual Solvents - Colorado Compliance

Test ID: T000240659

Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	105 - 2100	ND	
Butanes (Isobutane, n-Butane)	220 - 4399	ND	
Methanol	65 - 1307	ND	
Pentane	110 - 2203	ND	
Ethanol	112 - 2241	ND	
Acetone	108 - 2152	ND	
Isopropyl Alcohol	111 - 2226	ND	
Hexane	7 - 130	ND	
Ethyl Acetate	107 - 2149	ND	
Benzene	0.2 - 4.3	ND	
Heptanes	110 - 2202	ND	
Toluene	20 - 391	ND	
Xylenes (m,p,o-Xylenes)	143 - 2855	ND	

Final Approval



Karen Winternheimer
10Apr2023
10:55:00 AM MDT

PREPARED BY / DATE



Sam Smith
10Apr2023
10:59:00 AM MDT

APPROVED BY / DATE

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Microbial Contaminants - Colorado Compliance

Test ID: T000240657

Methods: TM25 (qPCR) TM24, TM26,

TM27 (Culture Plating): Microbial

(Colorado Panel)

	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



Brett Hudson
10Apr2023
12:39:00 PM MDT

PREPARED BY / DATE



Brianne Maillot
13Apr2023
07:13:00 PM MDT

APPROVED BY / DATE

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VetCS

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040523-Hemp Extract Paste-C0504

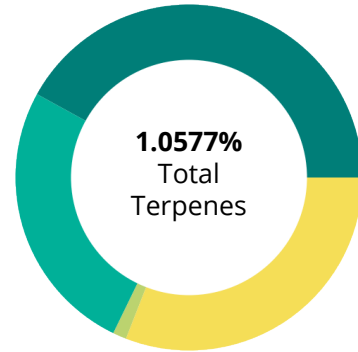
Batch ID or Lot Number: 103380	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 5 of 6
Reported: 07Apr2023	Started: 06Apr2023	Received: 05Apr2023	

Terpenes

Test ID: T000240655

Methods: TM22 (GC-MS)

	%(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	0.0022	0.022
alpha-Pinene	0.0000	0.0000
alpha-Terpinene	0.0000	0.0000
beta-Caryophyllene	0.4433	4.433
beta-Myrcene	0.2725	2.725
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	0.0134	0.134
Eucalyptol	0.0000	0.0000
gamma-Terpinene	0.0000	0.0000
Geraniol	0.0000	0.0000
Linalool	0.3263	3.263
Ocimene	0.0000	0.0000
p-Cymene	0.0000	0.0000
Terpinolene	0.0000	0.0000
trans-Nerolidol	0.0000	0.0000
	1.0577	10.5770



PREDOMINANT TERPENES

(-)-alpha-Bisabolol	0.0000	
(-)-beta-Pinene	0.0000	
alpha-Humulene	0.0022	
alpha-Pinene	0.0000	
alpha-Terpinene	0.0000	
beta-Caryophyllene	0.4433	
beta-Myrcene	0.2725	
d-Limonene	0.0000	
delta-3-Carene	0.0134	
Linalool	0.3263	

Notes

Final Approval



Karen Winterheimer
13Apr2023
05:15:00 PM MDT

PREPARED BY / DATE



Sam Smith
13Apr2023
05:19:00 PM MDT

APPROVED BY / DATE

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<https://results.botanacor.com/api/v1/coas/uuid/68361580-8ae6-4c44-9341-1bb38fa99f39>

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 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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Certified Test Laboratory