

Prepared for:

VetCS

6834 S University Blvd #225
Centennial, CO USA 80122

030623-VetCS-2000mg-Hemp Extract-C0504

Batch ID or Lot Number: 103377	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 1 of 6
Reported: 09Mar2023	Started: 08Mar2023	Received: 07Mar2023	

Residual Solvents - Colorado Compliance

Test ID: T000237774

Methods: TM04 (GC-MS): Residual

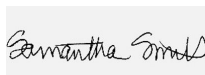
Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	109 - 2182	ND	
Butanes (Isobutane, n-Butane)	226 - 4514	ND	
Methanol	67 - 1336	ND	
Pentane	111 - 2227	ND	
Ethanol	114 - 2280	ND	
Acetone	111 - 2220	ND	
Isopropyl Alcohol	114 - 2275	ND	
Hexane	7 - 133	ND	
Ethyl Acetate	110 - 2200	ND	
Benzene	0.2 - 4.3	ND	
Heptanes	109 - 2180	ND	
Toluene	20 - 397	ND	
Xylenes (m,p,o-Xylenes)	144 - 2887	ND	

Final Approval



Karen Winternheimer
09Mar2023
12:38:00 PM MST

PREPARED BY / DATE



Sam Smith
09Mar2023
12:40:00 PM MST

APPROVED BY / DATE

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Pesticides

Test ID: T000237771

Methods: TM17

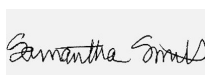
(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)
Abamectin	287 - 2706	ND		Malathion	287 - 2728
Acephate	42 - 2791	ND		Metalaxyl	42 - 2738
Acetamiprid	42 - 2774	ND		Methiocarb	43 - 2757
Azoxystrobin	43 - 2724	ND		Methomyl	43 - 2799
Bifenazate	45 - 2727	ND		MGK 264 1	168 - 1649
Boscalid	50 - 2758	ND		MGK 264 2	118 - 1130
Carbaryl	41 - 2727	ND		Myclobutanil	36 - 2729
Carbofuran	45 - 2722	ND		Naled	49 - 2737
Chlorantraniliprole	43 - 2784	ND		Oxamyl	42 - 2801
Chlorpyrifos	47 - 2894	ND		Paclobutrazol	45 - 2726
Clofentezine	279 - 2736	ND		Permethrin	292 - 2741
Diazinon	281 - 2750	ND		Phosmet	45 - 2684
Dichlorvos	263 - 2763	ND		Prophos	286 - 2754
Dimethoate	44 - 2762	ND		Propoxur	44 - 2733
E-Fenpyroximate	288 - 2879	ND		Pyridaben	299 - 2820
Etofenprox	47 - 2664	ND		Spinosad A	36 - 2225
Etoxazole	288 - 2838	ND		Spinosad D	50 - 520
Fenoxycarb	45 - 2716	ND		Spiromesifen	276 - 2878
Fipronil	47 - 2714	ND		Spirotetramat	284 - 2742
Flonicamid	48 - 2864	ND		Spiroxamine 1	19 - 1180
Fludioxonil	310 - 2748	ND		Spiroxamine 2	23 - 1563
Hexythiazox	40 - 2838	ND		Tebuconazole	278 - 2722
Imazalil	273 - 2749	ND		Thiacloprid	45 - 2785
Imidacloprid	44 - 2758	ND		Thiamethoxam	42 - 2797
Kresoxim-methyl	43 - 2760	ND		Trifloxystrobin	46 - 2732

Final Approval



Karen Winterheimer
10Mar2023
10:32:00 AM MST

PREPARED BY / DATE



Sam Smith
10Mar2023
10:35:00 AM MST

APPROVED BY / DATE

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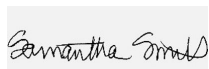
**Cannabinoids - Colorado
Compliance**

Test ID: T000237769

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

Cannabinoid Analysis

	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.007	0.020	<LOQ	<LOQ	
Cannabichromenic Acid (CBCA)	0.006	0.018	ND	ND	
Cannabidiol (CBD)	0.021	0.055	6.935	69.35	
Cannabidiolic Acid (CBDA)	0.021	0.057	ND	ND	
Cannabidivarin (CBDV)	0.005	0.013	0.036	0.36	
Cannabidivarinic Acid (CBDVA)	0.009	0.024	ND	ND	
Cannabigerol (CBG)	0.004	0.011	0.195	1.95	
Cannabigerolic Acid (CBGA)	0.017	0.048	ND	ND	
Cannabinol (CBN)	0.005	0.015	0.079	0.79	
Cannabinolic Acid (CBNA)	0.011	0.033	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.020	0.057	<LOQ	<LOQ	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.018	0.052	0.263	2.63	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.016	0.046	ND	ND	
Tetrahydrocannabivarin (THCV)	0.004	0.010	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.014	0.040	ND	ND	
Total Cannabinoids			7.508	75.08	
Total Potential THC			0.263	2.63	
Total Potential CBD			6.935	69.35	

Final ApprovalSam Smith
13Mar2023
01:26:00 PM MDT

PREPARED BY / DATE

Karen Winternheimer
13Mar2023
01:30:00 PM MDT

APPROVED BY / DATE

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Microbial Contaminants - Colorado Compliance

Test ID: T000237772

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
11Mar2023
02:22:00 PM MST



Eden Thompson-Wright
13Mar2023
04:07:00 PM MDT

PREPARED BY / DATE

APPROVED BY / DATE

Heavy Metals - Colorado Compliance

Test ID: T000237773

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.37	ND	
Cadmium	0.04 - 4.41	ND	
Mercury	0.04 - 4.03	ND	
Lead	0.04 - 4.32	ND	

Final Approval



Sam Smith
14Mar2023
02:41:00 PM MDT



Karen Winternheimer
14Mar2023
02:44:00 PM MDT

PREPARED BY / DATE

APPROVED BY / DATE

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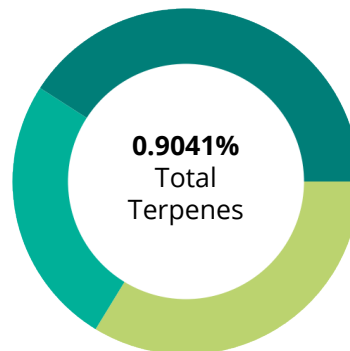
07Mar2023

Terpenes

Test ID: T000237770

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	0.0000	0.0000
alpha-Pinene	0.0000	0.0000
alpha-Terpinene	0.0000	0.0000
beta-Caryophyllene	0.3699	3.699
beta-Myrcene	0.2294	2.294
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	0.3048	3.048
Ocimene	0.0000	0.0000
p-Cymene	0.0000	0.0000
Terpinolene	0.0000	0.0000
trans-Nerolidol	0.0000	0.0000
	0.9041	9.0410



PREDOMINANT TERPENES

(-)-alpha-Bisabolol	0.0000
(-)-beta-Pinene	0.0000
alpha-Humulene	0.0000
alpha-Pinene	0.0000
alpha-Terpinene	0.0000
beta-Caryophyllene	0.3699
beta-Myrcene	0.2294
d-Limonene	0.0000
delta-3-Carene	0.0000
Linalool	0.3048

Notes

Final Approval



Karen Winternheimer
16Mar2023
01:14:00 PM MDT

PREPARED BY / DATE



Sam Smith
16Mar2023
01:18:00 PM MDT

APPROVED BY / DATE

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<https://results.botanacor.com/api/v1/coas/uuid/d5a5122a-d410-4a7b-9972-dbc9fd9c22e1>

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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