

Prepared for:

VetCS

6834 S University Blvd #225
Centennial, CO USA 80122

**050823-CBDA,CBD,CBG,CBN Hemp
Extract-0423CBDA**

Batch ID or Lot Number: 103382	Test, Test ID and Methods: Various	Matrix: Unit Co	Page 1 of 7
Reported: 10May2023	Started: 10May2023	Received: 08May2023	

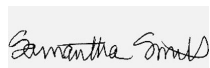
Heavy Metals - Colorado Compliance

Test ID: T000243513

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 4.62	ND	
Cadmium	0.05 - 4.93	ND	
Mercury	0.05 - 4.90	ND	
Lead	0.01 - 1.41	ND	

Final Approval



Sam Smith
10May2023
01:28:00 PM MDT

PREPARED BY / DATE



Karen Winternheimer
10May2023
01:37:00 PM MDT

APPROVED BY / DATE

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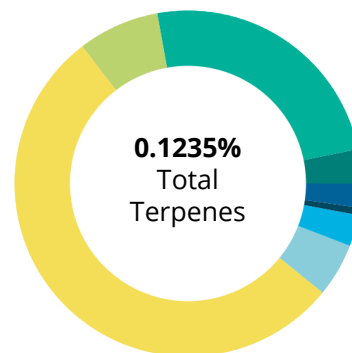
Received:
08May2023

Terpenes

Test ID: T000243510

Methods: TM22 (GC-MS)

	%(w/w)	(mg/g)
(-)-alpha-Bisabolol	0.0000	0.0000
(-)-beta-Pinene	0.0037	0.037
(-)-Caryophyllene Oxide	0.0000	0.0000
(-)-Isopulegol	0.0000	0.0000
alpha-Humulene	0.0286	0.286
alpha-Pinene	0.0088	0.088
alpha-Terpinene	0.0000	0.0000
beta-Caryophyllene	0.0623	0.623
beta-Myrcene	0.0058	0.058
beta-Ocimene	0.0000	0.0000
Camphene	0.0000	0.0000
cis-Nerolidol	0.0000	0.0000
d-Limonene	0.0034	0.034
delta-3-Carene	0.0008	0.008
Eucalyptol	0.0000	0.0000
gamma-Terpinene	0.0000	0.0000
Geraniol	0.0000	0.0000
Linalool	0.0026	0.026
Ocimene	0.0000	0.0000
p-Cymene	0.0000	0.0000
Terpinolene	0.0049	0.049
trans-Nerolidol	0.0026	0.026
	0.1235	1.2350



PREDOMINANT TERPENES

(-)-alpha-Bisabolol	0.0000
(-)-beta-Pinene	0.0037
alpha-Humulene	0.0286
alpha-Pinene	0.0088
alpha-Terpinene	0.0000
beta-Caryophyllene	0.0623
beta-Myrcene	0.0058
d-Limonene	0.0034
delta-3-Carene	0.0008
Linalool	0.0026

Notes

Final Approval



Karen Winterheimer
11May2023
04:06:00 PM MDT

PREPARED BY / DATE



Sam Smith
11May2023
04:09:00 PM MDT

APPROVED BY / DATE

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Pesticides

Test ID: T000243511

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)
Abamectin	378 - 2769	ND
Acephate	43 - 2754	ND
Acetamiprid	40 - 2768	ND
Azoxystrobin	42 - 2784	ND
Bifenazate	40 - 2782	ND
Boscalid	42 - 2628	ND
Carbaryl	43 - 2760	ND
Carbofuran	43 - 2732	ND
Chlorantraniliprole	43 - 2646	ND
Chlorpyrifos	44 - 2784	ND
Clofentezine	275 - 2759	ND
Diazinon	292 - 2802	ND
Dichlorvos	285 - 2827	ND
Dimethoate	40 - 2771	ND
E-Fenpyroximate	306 - 2809	ND
Etofenprox	42 - 2769	ND
Etoxazole	318 - 2742	ND
Fenoxycarb	28 - 2816	ND
Fipronil	66 - 2797	ND
Flonicamid	46 - 2843	ND
Fludioxonil	302 - 2682	ND
Hexythiazox	41 - 2779	ND
Imazalil	277 - 2819	ND
Imidacloprid	45 - 2816	ND
Kresoxim-methyl	38 - 2811	ND

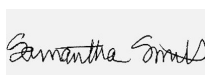
	Dynamic Range (ppb)	Result (ppb)
Malathion	287 - 2799	ND
Metalaxyl	38 - 2811	ND
Methiocarb	44 - 2678	ND
Methomyl	40 - 2805	ND
MGK 264 1	168 - 1670	ND
MGK 264 2	112 - 1086	ND
Myclobutanil	40 - 2671	ND
Naled	45 - 2772	ND
Oxamyl	41 - 2799	ND
Paclobutrazol	43 - 2746	ND
Permethrin	293 - 2838	ND
Phosmet	40 - 2782	ND
Prophos	299 - 2688	ND
Propoxur	43 - 2750	ND
Pyridaben	316 - 2744	ND
Spinosad A	32 - 2092	ND
Spinosad D	66 - 670	ND
Spiromesifen	293 - 2785	ND
Spirotetramat	287 - 2858	ND
Spiroxamine 1	18 - 1197	ND
Spiroxamine 2	25 - 1510	ND
Tebuconazole	288 - 2788	ND
Thiacloprid	41 - 2742	ND
Thiamethoxam	39 - 2800	ND
Trifloxystrobin	42 - 2727	ND

Final Approval



Karen Winternheimer
11May2023
10:16:00 AM MDT

PREPARED BY / DATE



Sam Smith
11May2023
10:25:00 AM MDT

APPROVED BY / DATE

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Cannabinoids - Colorado Compliance

Test ID: T000243509

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

Cannabinoid Analysis

	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.008	0.022	<LOQ	<LOQ	
Cannabichromenic Acid (CBCA)	0.007	0.020	0.090	0.90	
Cannabidiol (CBD)	0.022	0.058	1.875	18.75	
Cannabidiolic Acid (CBDA)	0.022	0.059	1.669	16.69	
Cannabidivarin (CBDV)	0.005	0.014	<LOQ	<LOQ	
Cannabidivarinic Acid (CBDVA)	0.009	0.025	ND	ND	
Cannabigerol (CBG)	0.004	0.012	0.466	4.66	
Cannabigerolic Acid (CBGA)	0.018	0.052	<LOQ	<LOQ	
Cannabinol (CBN)	0.006	0.016	0.447	4.47	
Cannabinolic Acid (CBNA)	0.012	0.036	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.021	0.062	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.019	0.057	0.077	0.77	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.017	0.050	0.053	0.53	
Tetrahydrocannabivarin (THCV)	0.004	0.011	<LOQ	<LOQ	
Tetrahydrocannabivarinic Acid (THCVA)	0.015	0.044	ND	ND	
Total Cannabinoids			4.677	46.77	
Total Potential THC			0.123	1.23	
Total Potential CBD			3.339	33.39	

Final Approval


Sam Smith
11May2023
08:00:00 AM MDT
PREPARED BY / DATE


Karen Winternheimer
11May2023
08:07:00 AM MDT
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Microbial Contaminants - Colorado Compliance

Test ID: T000243512

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



Eden Thompson-Wright
12May2023
03:21:00 PM MDT

PREPARED BY / DATE



Brianne Maillot
12May2023
03:40:00 PM MDT

APPROVED BY / DATE

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**Residual Solvents -
Colorado Compliance**

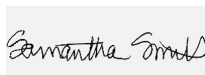
Test ID: T000243514

Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	87 - 1748	ND	
Butanes (Isobutane, n-Butane)	179 - 3587	ND	
Methanol	53 - 1060	ND	
Pentane	88 - 1766	ND	
Ethanol	87 - 1740	ND	
Acetone	88 - 1755	ND	
Isopropyl Alcohol	89 - 1784	ND	
Hexane	5 - 106	ND	
Ethyl Acetate	89 - 1789	ND	
Benzene	0.2 - 3.7	ND	
Heptanes	94 - 1886	ND	
Toluene	16 - 320	ND	
Xylenes (m,p,o-Xylenes)	117 - 2341	ND	

Final ApprovalKaren Winternheimer
12May2023
01:23:00 PM MDT

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Sam Smith
12May2023
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<https://results.botanacor.com/api/v1/coas/uuid/c4ecc87f-397b-4b50-86a0-3caeea70a658>

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 $\times$ (0.877)) and Total CBD = CBD + (CBDa $\times$ (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 $\times$ (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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