SC Labs®
Formerly Botanacor Labs

CERTIFICATE OF ANALYSIS

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

032024-CBDA,CBD,CBG,CBN Hemp Extract-0423CBDA

Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	Page 1 of 6
103399	Various	Concentrate	
Reported:	**Started:**	**Received:**	
26Mar2024	25Mar2024	21Mar2024	

Cannabinoids - Colorado Compliance

Test ID: T000274978
Methods: TM14 (HPLC-DAD): Potency – Standard

Cannabinoid Analysis	**LOD** (%)	**LOQ** (%)	**Result** (%)	**Result** (mg/g)	**Notes**
Cannabichromene (CBC)	0.006	0.018	0.019	0.19	
Cannabichromenic Acid (CBCA)	0.005	0.017	0.074	0.74	
Cannabidiol (CBD)	0.020	0.053	1.764	17.64	
Cannabidiolic Acid (CBDA)	0.020	0.055	1.480	14.80	
Cannabidivarin (CBDV)	0.005	0.013	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.008	0.023	ND	ND	
Cannabigerol (CBG)	0.003	0.010	0.470	4.70	
Cannabigerolic Acid (CBGA)	0.013	0.043	<LOQ	<LOQ	
Cannabinol (CBN)	0.004	0.014	0.404	4.04	
Cannabinolic Acid (CBNA)	0.009	0.030	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.016	0.052	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.014	0.047	0.068	0.68	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.013	0.042	0.044	0.44	
Tetrahydrocannabivarin (THCV)	0.003	0.009	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.011	0.037	ND	ND	
Total Cannabinoids			**4.323**	**43.23**	
Total Potential THC			0.107	1.07	
Total Potential CBD			3.062	30.62	

Final Approval



Karen Winternheimer
26Mar2024
08:58:00 AM MDT
PREPARED BY / DATE



Phillip Travisano
26Mar2024
09:02:00 AM MDT
APPROVED BY / DATE

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Residual Solvents - Colorado Compliance

Test ID: T000274983
Methods: TM04 (GC-MS): Residual Solvents

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Propane	90 - 1797	ND	
Butanes (Isobutane, n-Butane)	157 - 3135	ND	
Methanol	56 - 1129	ND	
Pentane	73 - 1463	ND	
Ethanol	83 - 1658	ND	
Acetone	89 - 1786	ND	
Isopropyl Alcohol	93 - 1853	ND	
Hexane	5 - 109	ND	
Ethyl Acetate	90 - 1810	ND	
Benzene	0.2 - 3.7	ND	
Heptanes	83 - 1665	ND	
Toluene	16 - 326	ND	
Xylenes (m,p,o-Xylenes)	116 - 2311	ND	

Final Approval



Karen Winternheimer
26Mar2024
02:40:00 PM MDT
PREPARED BY / DATE



Phillip Travisano
26Mar2024
02:41:00 PM MDT
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Microbial Contaminants - Colorado Compliance

Test ID: T000274981
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
Salmonella	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
25Mar2024
04:03:00 PM MDT
PREPARED BY / DATE

Brianne Maillot
26Mar2024
06:48:00 PM MDT
APPROVED BY / DATE

Heavy Metals - Colorado Compliance

Test ID: T000274982
Methods: TM19 (ICP-MS): Heavy Metals

	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 4.64	ND	
Cadmium	0.04 - 4.40	ND	
Mercury	0.04 - 4.42	ND	
Lead	0.04 - 4.38	ND	

Final Approval

Phillip Travisano
28Mar2024
03:29:00 PM MDT
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Colin Hendrickson
28Mar2024
05:35:00 PM MDT
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Pesticides

Test ID: T000274980
Methods: TM17

(LC-QQ LC MS/MS)	**Dynamic Range** (ppb)	**Result** (ppb)		**Dynamic Range** (ppb)	**Result** (ppb)
Abamectin	353 - 2766	ND	Malathion	287 - 2690	ND
Acephate	40 - 2715	ND	Metalaxyl	45 - 2665	ND
Acetamiprid	42 - 2686	ND	Methiocarb	41 - 2782	ND
Azoxystrobin	43 - 2696	ND	Methomyl	41 - 2736	ND
Bifenazate	40 - 2677	ND	MGK 264 1	157 - 1604	ND
Boscalid	50 - 2724	ND	MGK 264 2	104 - 1096	ND
Carbaryl	40 - 2687	ND	Myclobutanil	39 - 2780	ND
Carbofuran	42 - 2683	ND	Naled	44 - 2666	ND
Chlorantraniliprole	46 - 2776	ND	Oxamyl	40 - 2750	ND
Chlorpyrifos	44 - 2738	ND	Paclobutrazol	39 - 2687	ND
Clofentezine	281 - 2731	ND	Permethrin	266 - 2762	ND
Diazinon	281 - 2691	ND	Phosmet	41 - 2559	ND
Dichlorvos	270 - 2733	ND	Prophos	288 - 2753	ND
Dimethoate	42 - 2686	ND	Propoxur	43 - 2696	ND
E-Fenpyroximate	261 - 2758	ND	Pyridaben	281 - 2768	ND
Etofenprox	43 - 2727	ND	Spinosad A	34 - 2079	ND
Etoxazole	277 - 2656	ND	Spinosad D	65 - 655	ND
Fenoxycarb	44 - 2705	ND	Spiromesifen	269 - 2727	ND
Fipronil	41 - 2620	ND	Spirotetramat	282 - 2740	ND
Flonicamid	40 - 2793	ND	Spiroxamine 1	15 - 1057	ND
Fludioxonil	255 - 2762	ND	Spiroxamine 2	23 - 1635	ND
Hexythiazox	41 - 2755	ND	Tebuconazole	284 - 2722	ND
Imazalil	282 - 2730	ND	Thiacloprid	41 - 2704	ND
Imidacloprid	48 - 2778	ND	Thiamethoxam	40 - 2730	ND
Kresoxim-methyl	42 - 2735	ND	Trifloxystrobin	42 - 2699	ND

Final Approval



Karen Winternheimer
29Mar2024
01:11:00 PM MDT
PREPARED BY / DATE



Phillip Travisano
29Mar2024
01:13:00 PM MDT
APPROVED BY / DATE

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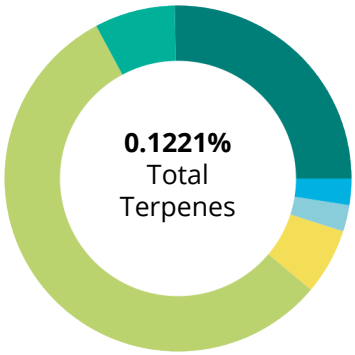
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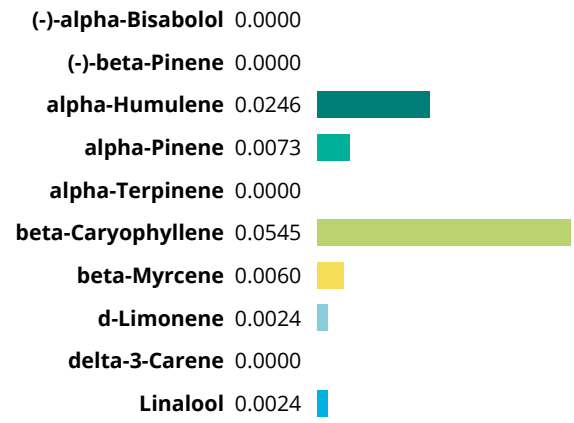
Terpenes

Test ID: T000274979

Methods: TM22 (GC-MS)	%(w/w)	(mg/g)
(-)-alpha-Bisabolol	0.0000	0.0000
(-)-beta-Pinene	0.0000	0.0000
(-)-Caryophyllene Oxide	0.0171	0.171
(-)-Isopulegol	0.0000	0.0000
alpha-Humulene	0.0246	0.246
alpha-Pinene	0.0073	0.073
alpha-Terpinene	0.0000	0.0000
beta-Caryophyllene	0.0545	0.545
beta-Myrcene	0.0060	0.060
beta-Ocimene	0.0000	0.0000
Camphene	0.0000	0.0000
cis-Nerolidol	0.0000	0.0000
d-Limonene	0.0024	0.024
delta-3-Carene	0.0000	0.0000
Eucalyptol	0.0000	0.0000
gamma-Terpinene	0.0000	0.0000
Geraniol	0.0000	0.0000
Linalool	0.0024	0.024
Ocimene	0.0000	0.0000
p-Cymene	0.0000	0.0000
Terpinolene	0.0052	0.052
trans-Nerolidol	0.0026	0.026
	0.1221	**1.2210**



PREDOMINANT TERPENES



Notes

Final Approval

Karen Winternheimer
01Apr2024
01:01:00 PM MDT
PREPARED BY / DATE

Phillip Travisano
01Apr2024
01:04:00 PM MDT
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https://results.botanacor.com/api/v1/coas/uuid/39d24990-099a-497f-8d7c-43a80a726f5b

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 A2LA Cert #: 4329.02 Chemical; 4329.03 Biological. 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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