

CERTIFICATE OF ANALYSIS

PRODUCT NAME: CBD Cream
PRODUCT STRENGTH: 1000mg / bottle
BATCH: 23177-24
BEST BY DATE: 7/6/2025

Physical Attributes

Test	Method	Specification	Results
Color	Joy Internal	White to off white	PASS
Odor	Joy Internal	Neutral with light hemp/CBD oil scent	PASS
Appearance	Joy Internal	Creamy smooth cream consistency with medium viscosity	PASS
Primary Package Eval.	Joy Internal	Container clean and free of filth. Lid intact.	PASS
Secondary Package Eval.	Joy Internal	Labeling Compliance Checked, Cartons sturdy and clean. Sufficient cushion material exists. Box taped and secure.	PASS

Review of Third-Party Analysis

Panel	Method	Specification	Results*	Pass/Fail
Potency - Total CBD	HPLC-UV DAD	LOQ*: $\geq 1000\text{mg}$ / bottle	1220mg	PASS
Potency - D9-THC	HPLC-UV DAD	LOQ: $<0.01\%$ THC (Broad Spectrum)	Below LOQ	PASS
Expanded Pesticide Panel	HPLC-QQQ	LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract	Below LOQ	PASS
Microbial Escherichia coli (STEC)	PCR	Complies with CDPHE 6 CCR 1010-21 - LOQ 1 **CFU/25	Absent	PASS
Microbial Salmonella	PCR	Complies with CDPHE 6 CCR 1010-21 - LOQ 1 CFU/25 gram	Absent	PASS
Microbial Yeast and Mold	Culture Plating	Complies with CDPHE 6 CCR 1010-21 - LOQ 10^2 CFU/gram	Below LOQ	PASS
Microbial Total Coliforms*	Culture Plating	Complies with CDPHE 6 CCR 1010-21 - LOQ 10^2 CFU/gram	Below LOQ	PASS
Microbial Total Aerobic Count*	Culture Plating	Complies with CDPHE 6 CCR 1010-21 - LOQ 10^3 CFU/gram	Below LOQ	PASS
Heavy Metals	ICP-MS	Arsenic (As): ≤ 1.5 ppm† Cadmium (Cd): ≤ 0.5 ppm Lead (Pb): ≤ 0.5 ppm Mercury (Hg): ≤ 1.5 ppm	Below LOQ	PASS
Mycotoxins	ICP-MS	Total Aflatoxins <20 ppb†† Aflatoxin B1 < 5 ppb Ochratoxin < 5 ppb	Below LOQ	PASS
Residual Solvents	GC-HS-MSD	LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract	Below LOQ	PASS

*Level of Quantification

**Colony Forming Units per Gram

† Parts Per Million †† Part Per Billion

Values expressed in scientific notation.

Examples:

$10^2=100$

$10^3=1,000$

Quality Certified



Name

7/25/2023

Date

1000mg CBD Cream

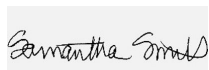
Batch ID or Lot Number: 23177-24	Test, Test ID and Methods: Various	Matrix: Finished Product	Page 1 of 5
Reported: 11Jul2023	Started: 10Jul2023	Received: 10Jul2023	

**Heavy Metals -
Colorado Compliance**

Test ID: T000248295

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.27	ND	
Cadmium	0.04 - 4.39	ND	
Mercury	0.04 - 4.47	ND	
Lead	0.04 - 4.47	ND	

Final ApprovalSam Smith
11Jul2023
10:51:00 AM MDT

PREPARED BY / DATE

Karen Winternheimer
11Jul2023
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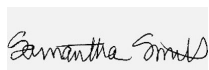
APPROVED BY / DATE

**Cannabinoids - Colorado
Compliance**

Test ID: T000248292

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

Cannabinoid Analysis	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.007	0.023	ND	ND	
Cannabichromenic Acid (CBCA)	0.007	0.021	ND	ND	
Cannabidiol (CBD)	0.021	0.058	1.076	10.76	
Cannabidiolic Acid (CBDA)	0.022	0.059	ND	ND	
Cannabidivarin (CBDV)	0.005	0.014	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.009	0.025	ND	ND	
Cannabigerol (CBG)	0.004	0.013	0.054	0.54	
Cannabigerolic Acid (CBGA)	0.017	0.054	ND	ND	
Cannabinol (CBN)	0.005	0.017	ND	ND	
Cannabinolic Acid (CBNA)	0.012	0.037	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.020	0.064	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.018	0.058	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.016	0.052	ND	ND	
Tetrahydrocannabivarin (THCV)	0.004	0.012	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.014	0.046	ND	ND	
Total Cannabinoids			1.130	11.30	
Total Potential THC			ND	ND	
Total Potential CBD			1.076	10.76	

Final ApprovalSam Smith
12Jul2023
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Karen Winternheimer
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1000mg CBD Cream

Batch ID or Lot Number: 23177-24	Test, Test ID and Methods: Various	Matrix: Finished Product	Page 2 of 5
Reported: 11Jul2023	Started: 10Jul2023	Received: 10Jul2023	

**Residual Solvents -
Colorado Compliance**

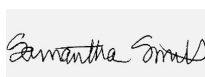
Test ID: T000248296

Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	93 - 1853	ND	
Butanes (Isobutane, n-Butane)	185 - 3693	ND	
Methanol	63 - 1256	ND	
Pentane	95 - 1897	ND	
Ethanol	102 - 2038	ND	
Acetone	100 - 1991	ND	
Isopropyl Alcohol	108 - 2157	379	
Hexane	6 - 117	ND	
Ethyl Acetate	101 - 2017	ND	
Benzene	0.2 - 4.1	ND	
Heptanes	100 - 2004	ND	
Toluene	19 - 379	ND	
Xylenes (m,p,o-Xylenes)	141 - 2823	ND	

Final ApprovalKaren Winternheimer
13Jul2023
01:00:00 PM MDT

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Sam Smith
13Jul2023
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1000mg CBD Cream

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Pesticides

Test ID: T000248293

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	254 - 2710	ND		Malathion	298 - 2762	ND
Acephate	44 - 2724	ND		Metalaxyl	40 - 2764	ND
Acetamiprid	42 - 2716	ND		Methiocarb	42 - 2806	ND
Azoxystrobin	44 - 2756	ND		Methomyl	42 - 2753	ND
Bifenazate	40 - 2754	ND		MGK 264 1	170 - 1665	ND
Boscalid	45 - 2817	ND		MGK 264 2	110 - 1056	ND
Carbaryl	40 - 2706	ND		Myclobutanil	40 - 2854	ND
Carbofuran	43 - 2709	ND		Naled	45 - 2760	ND
Chlorantraniliprole	47 - 2839	ND		Oxamyl	42 - 2745	ND
Chlorpyrifos	36 - 2768	ND		Paclobutrazol	42 - 2731	ND
Clofentezine	285 - 2782	ND		Permethrin	293 - 2713	ND
Diazinon	279 - 2756	ND		Phosmet	43 - 2744	ND
Dichlorvos	279 - 2771	ND		Prophos	282 - 2776	ND
Dimethoate	42 - 2719	ND		Propoxur	43 - 2728	ND
E-Fenpyroximate	288 - 2796	ND		Pyridaben	294 - 2751	ND
Etofenprox	43 - 2727	ND		Spinosad A	32 - 2082	ND
Etoxazole	297 - 2746	ND		Spinosad D	64 - 680	ND
Fenoxycarb	12 - 2794	ND		Spiromesifen	277 - 2756	ND
Fipronil	65 - 2712	ND		Spirotetramat	280 - 2803	ND
Flonicamid	51 - 2752	ND		Spiroxamine 1	16 - 1215	ND
Fludioxonil	300 - 2843	ND		Spiroxamine 2	21 - 1596	ND
Hexythiazox	41 - 2755	ND		Tebuconazole	289 - 2740	ND
Imazalil	288 - 2795	ND		Thiacloprid	42 - 2707	ND
Imidacloprid	43 - 2793	ND		Thiamethoxam	43 - 2760	ND
Kresoxim-methyl	39 - 2782	ND		Trifloxystrobin	43 - 2714	ND

Final Approval



Karen Winternheimer
13Jul2023
12:43:00 PM MDT

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Sam Smith
13Jul2023
12:45:00 PM MDT

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1000mg CBD Cream

Batch ID or Lot Number: 23177-24	Test, Test ID and Methods: Various	Matrix: Finished Product	Page 4 of 5
Reported: 11Jul2023	Started: 10Jul2023	Received: 10Jul2023	

Microbial Contaminants - Colorado Compliance

Test ID: T000248294

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



Brianne Maillot
13Jul2023
03:34:00 PM MDT



Brett Hudson
13Jul2023
05:12:00 PM MDT

PREPARED BY / DATE

APPROVED BY / DATE

Mycotoxins - Colorado Compliance

Test ID: T000248297

Methods: TM18 (UHPLC-QQQ

LCMS/MS): Mycotoxins

	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	2.85 - 122.40	ND	N/A
Aflatoxin B1	0.99 - 31.45	ND	
Aflatoxin B2	0.96 - 31.57	ND	
Aflatoxin G1	0.99 - 31.30	ND	
Aflatoxin G2	1.08 - 31.85	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval



Sam Smith
19Jul2023
07:39:00 AM MDT



Karen Winternheimer
19Jul2023
07:41:00 AM MDT

PREPARED BY / DATE

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