

CERTIFICATE OF ANALYSIS

PRODUCT NAME: CBD Sports Cream
PRODUCT STRENGTH: 1000mg / bottle
BATCH: 22279-05
BEST BY DATE: 10/19/2024

Physical Attributes

Test	Method	Specification	Results
Color	Joy Internal	White to off white	PASS
Odor	Joy Internal	Blend of Menthol, Camphor, Eucalyptus, Lavender, Rosemary, Wintergreen & Marjoram.	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*: ≥ 1000mg / bottle	1268mg	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†† Afltoxin B1 < 5 ppb Ochratoxin < 5ppb	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:
 10²=100
 10³=1,000

Quality Certified


 Name

11/11/2022

Date

SAMPLE NAME: KWJOSLM 22279-05

Infused, Hemp

SAMPLE DETAIL

 Batch Number: 22279-05
 Sample ID 221007N024

 Date Collected: 10/07/2022
 Date Received: 10/08/2022
 Batch Size
 Sample Size: 10 units
 Unit Mass:
 Serving Size:


Scan QR code to verify authenticity of results.

CANNABINOID ANALYSIS - SUMMARY
Total THC: Not Detected
Total CBD: 1.1192%
Sum of Cannabinoids: 1.1304%
Total Cannabinoids: 1.1304%

Total THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during the decarboxylation step:

$$\text{Total THC} = \Delta^9\text{-THC} + (\text{THC}_a \cdot 0.877)$$

$$\text{Total CBD} = \text{CBD} + (\text{CBD}_a \cdot 0.877)$$

$$\text{Sum of Cannabinoids} = \Delta^9\text{-THC} + \text{THC}_a + \text{CBD} + \text{CBD}_a + \text{CBG} + \text{CBG}_a + \text{THCV} + \text{THCV}_a + \text{CBC} + \text{CBC}_a + \text{CBDV} + \text{CBDV}_a + \Delta^8\text{-THC} + \text{CBN} + \text{CBN}_a$$

$$\text{Total Cannabinoids} = (\Delta^9\text{-THC} + 0.877 \cdot \text{THC}_a) + (\text{CBD} + 0.877 \cdot \text{CBD}_a) + (\text{CBG} + 0.877 \cdot \text{CBG}_a) + (\text{THCV} + 0.877 \cdot \text{THCV}_a) + (\text{CBC} + 0.877 \cdot \text{CBC}_a) + (\text{CBDV} + 0.877 \cdot \text{CBDV}_a) + \Delta^8\text{-THC} + \text{CBN} + \text{CBN}_a$$

For quality assurance purposes. Not a Regulatory Hemp Lab Test Report. These results relate only to the sample included on this report. This report shall not be reproduced, except in full, without written approval of the laboratory.

Sample Certification: California Code of Regulations Title 4, Division 19, Department of Cannabis Control Business and Professions Code. Reference: Sections 26100, 26104 and 26110, Business and Professions Code.

Decision Rule: Statements of conformity (e.g. Pass/Fail) to specifications are made in this report without taking measurement uncertainty into account. Where statements of conformity are made in this report, the following decision rules are applied: PASS - Results within limits/specifications. FAIL - Results exceed limits/specifications.

References: limit of detection (LOD), limit of quantification (LOQ), not detected (ND), not tested (NT)


 LQC verified by: Kevin Flores
 Date: 10/08/2022


 Approved by: Josh Wurzer, President
 Date: 10/08/2022




CANNABINOID TEST RESULTS - 10/08/2022

Tested by high-performance liquid chromatography with diode-array detection (HPLC-DAD).

Method: QSP 1157 - Analysis of Cannabinoids by HPLC-DAD

TOTAL THC: Not Detected

Total THC (Δ^9 -THC+0.877*THCa)

TOTAL CBD: 1.1192%

Total CBD (CBD+0.877*CBDa)

TOTAL CANNABINOIDS: 1.1304%

Total Cannabinoids (Total THC) + (Total CBD) + (Total CBG) + (Total THCV) + (Total CBC) + (Total CBDV) + Δ^9 -THC + CBL + CBN

TOTAL CBG: ND

Total CBG (CBG+0.877*CBGa)

TOTAL THCV: ND

Total THCV (THCV+0.877*THCVa)

TOTAL CBC: 0.0063%

Total CBC (CBC+0.877*CBCa)

TOTAL CBDV: 0.0049%

Total CBDV (CBDV+0.877*CBDVa)

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
CBD	0.004 / 0.011	±0.4175	11.192	1.1192
CBC	0.003 / 0.010	±0.0020	0.063	0.0063
CBDV	0.002 / 0.012	±0.0020	0.049	0.0049
Δ^9 -THC	0.002 / 0.014	N/A	ND	ND
Δ^8 -THC	0.01 / 0.02	N/A	ND	ND
THCa	0.001 / 0.005	N/A	ND	ND
THCV	0.002 / 0.012	N/A	ND	ND
THCVa	0.002 / 0.019	N/A	ND	ND
CBDa	0.001 / 0.026	N/A	ND	ND
CBDVa	0.001 / 0.018	N/A	ND	ND
CBG	0.002 / 0.006	N/A	ND	ND
CBGa	0.002 / 0.007	N/A	ND	ND
CBL	0.003 / 0.010	N/A	ND	ND
CBN	0.001 / 0.007	N/A	ND	ND
CBCa	0.001 / 0.015	N/A	ND	ND
SUM OF CANNABINOIDS			11.304 mg/g	1.1304%

CBD Sports Cream 1000mg


Batch ID or Lot Number: 22279-05	Test, Test ID and Methods: Various	Matrix: Topical	Page 1 of 5
Reported: 01Nov2022	Started: 29Oct2022	Received: 28Oct2022	


**Residual Solvents -
Colorado Compliance**

Test ID: T000226151
Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	91 - 1816	ND	
Butanes (Isobutane, n-Butane)	181 - 3629	ND	
Methanol	57 - 1142	ND	
Pentane	95 - 1904	ND	
Ethanol	93 - 1856	ND	
Acetone	95 - 1906	ND	
Isopropyl Alcohol	99 - 1970	ND	
Hexane	6 - 113	ND	
Ethyl Acetate	95 - 1902	ND	
Benzene	0.2 - 3.8	ND	
Heptanes	96 - 1917	ND	
Toluene	17 - 343	ND	
Xylenes (m,p,o-Xylenes)	124 - 2483	ND	

Final Approval


 Karen Winternheimer
 01Nov2022
 07:32:00 AM MDT
 PREPARED BY / DATE


 Sam Smith
 01Nov2022
 07:36:00 AM MDT
 APPROVED BY / DATE

CBD Sports Cream 1000mg


Batch ID or Lot Number: 22279-05	Test, Test ID and Methods: Various	Matrix: Topical	Page 2 of 5
Reported: 01Nov2022	Started: 29Oct2022	Received: 28Oct2022	


Mycotoxins - Colorado Compliance

Test ID: T000226152
Methods: TM18 (UHPLC-QQQ)
LCMS/MS: Mycotoxins

	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	3.63 - 118.81	ND	N/A
Aflatoxin B1	0.84 - 30.46	ND	
Aflatoxin B2	0.87 - 30.76	ND	
Aflatoxin G1	0.90 - 30.19	ND	
Aflatoxin G2	0.90 - 30.97	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval


Sam Smith
01Nov2022
08:27:00 AM MDT
PREPARED BY / DATE



Karen Winternheimer
01Nov2022
08:34:00 AM MDT
APPROVED BY / DATE


Heavy Metals - Colorado Compliance

Test ID: T000226150
Methods: TM19 (ICP-MS): Heavy Metals

	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.17	ND	
Cadmium	0.04 - 4.21	ND	
Mercury	0.04 - 4.14	ND	
Lead	0.04 - 4.02	ND	

Final Approval


Sam Smith
03Nov2022
09:29:00 AM MDT
PREPARED BY / DATE


Phillip Travisano
03Nov2022
10:09:00 AM MDT
APPROVED BY / DATE

CBD Sports Cream 1000mg


Batch ID or Lot Number: 22279-05	Test, Test ID and Methods: Various	Matrix: Topical	Page 3 of 5
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**Microbial
Contaminants -
Colorado Compliance**

Test ID: T000226149
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
03Nov2022
11:29:00 AM MDT
PREPARED BY / DATE


Brianne Maillot
03Nov2022
04:54:00 PM MDT
APPROVED BY / DATE

CBD Sports Cream 1000mg

Batch ID or Lot Number: 22279-05	Test, Test ID and Methods: Various	Matrix: Topical	Page 4 of 5
Reported: 01Nov2022	Started: 29Oct2022	Received: 28Oct2022	


Pesticides


Test ID: T000226148

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	347 - 2834	ND		Malathion	280 - 2714	ND
Acephate	40 - 2789	ND		Metalaxyl	41 - 2751	ND
Acetamiprid	40 - 2739	ND		Methiocarb	42 - 2712	ND
Azoxystrobin	40 - 2728	ND		Methomyl	37 - 2759	ND
Bifenazate	40 - 2740	ND		MGK 264 1	171 - 1610	ND
Boscalid	24 - 2691	ND		MGK 264 2	119 - 1152	ND
Carbaryl	41 - 2714	ND		Myclobutanil	32 - 2701	ND
Carbofuran	41 - 2728	ND		Naled	43 - 2724	ND
Chlorantraniliprole	38 - 2701	ND		Oxamyl	39 - 2754	ND
Chlorpyrifos	46 - 2777	ND		Paclobutrazol	41 - 2716	ND
Clofentezine	279 - 2740	ND		Permethrin	280 - 2784	ND
Diazinon	283 - 2727	ND		Phosmet	43 - 2726	ND
Dichlorvos	155 - 2662	ND		Prophos	294 - 2723	ND
Dimethoate	39 - 2722	ND		Propoxur	42 - 2717	ND
E-Fenpyroximate	284 - 2765	ND		Pyridaben	311 - 2726	ND
Etofenprox	41 - 2788	ND		Spinosad A	30 - 2236	ND
Etoxazole	296 - 2775	ND		Spinosad D	46 - 503	ND
Fenoxycarb	34 - 2706	ND		Spiromesifen	264 - 2798	ND
Fipronil	36 - 2830	ND		Spirotetramat	289 - 2729	ND
Flonicamid	41 - 2750	ND		Spiroxamine 1	18 - 1170	ND
Fludioxonil	293 - 2728	ND		Spiroxamine 2	22 - 1529	ND
Hexythiazox	41 - 2789	ND		Tebuconazole	294 - 2713	ND
Imazalil	256 - 2752	ND		Thiacloprid	39 - 2731	ND
Imidacloprid	42 - 2718	ND		Thiamethoxam	38 - 2767	ND
Kresoxim-methyl	41 - 2792	ND		Trifloxystrobin	42 - 2729	ND

Final Approval


 Karen Winternheimer
 04Nov2022
 08:49:00 AM MDT
 PREPARED BY / DATE


 Sam Smith
 04Nov2022
 08:53:00 AM MDT
 APPROVED BY / DATE