

CERTIFICATE OF ANALYSIS

PRODUCT NAME: Nano CBD Softgels
PRODUCT STRENGTH: 25 mg CBD
TINCTURE BATCH: 3003
BEST BY DATE: 7/4/2024
HEMP EXTRACT LOT: 22BL06907 & 22BL07120

Physical Attributes


Test	Method	Specification	Results
Color	Joy Internal	Golden to Amber	PASS
Odor	Joy Internal	No Odor	PASS
Appearance	Joy Internal	Dry, ovoid softgel capsules in container with lid and shrink-band	PASS
Primary Package Eval.	Joy Internal	Container clean and free of filth. Container caps tight and shrink bands 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	*NLT 25 mg / softgel	30.4mg	PASS
Potency - D9-THC	HPLC-UV DAD	LOQ: <0.01% (broad spectrum)	ND	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 gram	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 Panel	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 < 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 Quantitation, † Parts Per Million ‡ Part Per Billion CFU/g=Colony Forming Units per Gram
 *Nothing Less Than
 10²=100 CFU
 10³=1,000 CFU

Quality Certified


 Name _____

8/31/22

Date

Prepared for:

JOY ORGANICS

5042 Technology Parkway Ste. 500
FT. COLLINS, CO USA 80528

25mg Everyday Softgel

Batch ID or Lot Number: SG25-3003	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 3 of 5
Reported: 23Aug2022	Started: 23Aug2022	Received: 22Aug2022	


Cannabinoids - Colorado Compliance


Test ID: T000218858

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

Cannabinoid Analysis	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.022	0.058	ND	ND	
Cannabichromenic Acid (CBCA)	0.020	0.053	ND	ND	
Cannabidiol (CBD)	0.046	0.154	8.167	81.67	
Cannabidiolic Acid (CBDA)	0.047	0.158	ND	ND	
Cannabidivarin (CBDV)	0.011	0.036	<LOQ	0.25	
Cannabidivarinic Acid (CBDVA)	0.020	0.066	ND	ND	
Cannabigerol (CBG)	0.012	0.033	0.505	5.05	
Cannabigerolic Acid (CBGA)	0.052	0.138	ND	ND	
Cannabinol (CBN)	0.016	0.043	ND	ND	
Cannabinolic Acid (CBNA)	0.035	0.094	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.062	0.164	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.056	0.149	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.050	0.132	ND	ND	
Tetrahydrocannabivarin (THCV)	0.011	0.030	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.044	0.116	ND	ND	
Total Cannabinoids			8.697	86.97	
Total Potential THC			ND	ND	
Total Potential CBD			8.167	81.67	

Final Approval


Sam Smith
25Aug2022
04:05:00 PM MDT
PREPARED BY / DATE


Karen Winternheimer
25Aug2022
04:07:00 PM MDT
APPROVED BY / DATE

Prepared for:

JOY ORGANICS

5042 Technology Parkway Ste. 500
FT. COLLINS, CO USA 80528

25mg Everyday Softgel

Batch ID or Lot Number: SG25-3003	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 1 of 5
Reported: 23Aug2022	Started: 23Aug2022	Received: 22Aug2022	

Mycotoxins - Colorado Compliance


Test ID: T000218863

Methods: TM18 (UHPLC-QQQ)

LCMS/MS: Mycotoxins

	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	1.81 - 128.54	ND	N/A
Aflatoxin B1	1.71 - 33.10	ND	
Aflatoxin B2	1.29 - 32.29	ND	
Aflatoxin G1	1.32 - 32.13	ND	
Aflatoxin G2	1.10 - 32.84	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval


Samantha Smith
23Aug2022
03:52:00 PM MDT
PREPARED BY / DATE


Jacob Miller
23Aug2022
03:58:00 PM MDT
APPROVED BY / DATE


Heavy Metals - Colorado Compliance


Test ID: T000218861

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.47	ND	
Cadmium	0.04 - 4.37	ND	
Mercury	0.04 - 4.44	ND	
Lead	0.04 - 4.48	ND	

Final Approval


Daniel Weidensaul
24Aug2022
04:48:00 PM MDT
PREPARED BY / DATE


Courtney Richards
24Aug2022
05:54:00 PM MDT
APPROVED BY / DATE

Prepared for:

JOY ORGANICS

5042 Technology Parkway Ste. 500
FT. COLLINS, CO USA 80528

25mg Everyday Softgel

Batch ID or Lot Number: SG25-3003	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 2 of 5
Reported: 23Aug2022	Started: 23Aug2022	Received: 22Aug2022	

Residual Solvents - Colorado Compliance

Test ID: T000218862


Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	75 - 1497	ND	
Butanes (Isobutane, n-Butane)	156 - 3122	ND	
Methanol	49 - 976	ND	
Pentane	81 - 1623	ND	
Ethanol	80 - 1601	ND	
Acetone	80 - 1598	ND	
Isopropyl Alcohol	85 - 1698	ND	
Hexane	5 - 98	ND	
Ethyl Acetate	80 - 1609	ND	
Benzene	0.2 - 3.3	ND	
Heptanes	84 - 1680	ND	
Toluene	14 - 288	ND	
Xylenes (m,p,o-Xylenes)	107 - 2145	ND	

Final Approval



Jacob Miller
25Aug2022
05:08:00 PM MDT
PREPARED BY / DATE



Daniel Weidensaul
25Aug2022
05:08:00 PM MDT
APPROVED BY / DATE

Prepared for:

JOY ORGANICS

5042 Technology Parkway Ste. 500
FT. COLLINS, CO USA 80528

25mg Everyday Softgel

Batch ID or Lot Number: SG25-3003	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 4 of 5
Reported: 23Aug2022	Started: 23Aug2022	Received: 22Aug2022	


Pesticides


Test ID: T000218859

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	326 - 2612	ND		Malathion	278 - 2825	ND
Acephate	52 - 2697	ND		Metalaxyl	38 - 2779	ND
Acetamiprid	44 - 2694	ND		Methiocarb	48 - 2694	ND
Azoxystrobin	38 - 2757	ND		Methomyl	50 - 2686	ND
Bifenazate	48 - 2758	ND		MGK 264 1	139 - 1646	ND
Boscalid	57 - 2681	ND		MGK 264 2	116 - 1153	ND
Carbaryl	44 - 2755	ND		Myclobutanil	51 - 2644	ND
Carbofuran	40 - 2758	ND		Naled	51 - 2682	ND
Chlorantraniliprole	55 - 2676	ND		Oxamyl	45 - 2670	ND
Chlorpyrifos	46 - 2802	ND		Paclobutrazol	40 - 2792	ND
Clofentezine	276 - 2832	ND		Permethrin	330 - 2715	ND
Diazinon	289 - 2832	ND		Phosmet	40 - 2848	ND
Dichlorvos	308 - 2682	ND		Prophos	314 - 2690	ND
Dimethoate	47 - 2672	ND		Propoxur	41 - 2754	ND
E-Fenpyroximate	300 - 2780	ND		Pyridaben	290 - 2793	ND
Etofenprox	49 - 2713	ND		Spinosad A	35 - 2268	ND
Etoxazole	295 - 2780	ND		Spinosad D	62 - 488	ND
Fenoxycarb	42 - 2814	ND		Spiromesifen	307 - 2754	ND
Fipronil	2 - 2763	ND		Spirotetramat	333 - 2721	ND
Flonicamid	46 - 2720	ND		Spiroxamine 1	24 - 1156	ND
Fludioxonil	341 - 2606	ND		Spiroxamine 2	32 - 1528	ND
Hexythiazox	48 - 2764	ND		Tebuconazole	271 - 2876	ND
Imazalil	297 - 2797	ND		Thiacloprid	39 - 2704	ND
Imidacloprid	46 - 2646	ND		Thiamethoxam	43 - 2740	ND
Kresoxim-methyl	52 - 2807	ND		Trifloxystrobin	38 - 2805	ND

Final Approval


 Sam Smith
 29Aug2022
 05:25:00 PM MDT
 PREPARED BY / DATE


 Daniel Weidensaul
 29Aug2022
 05:28:00 PM MDT
 APPROVED BY / DATE

CERTIFICATE OF ANALYSIS

Prepared for:

JOY ORGANICS

5042 Technology Parkway Ste. 500
FT. COLLINS, CO USA 80528

25mg Everyday Softgel

Batch ID or Lot Number: SG25-3003	Test: Microbial Contaminants	Reported: 01Sep2022	USDA License: NA
Matrix: Finished Product	Test ID: T000218860	Started: 22Aug2022	Sampler ID: NA
	Method(s): TM25 (PCR) TM24, TM26, TM27 (Culture Plating)	Received: 22Aug2022	Status: NA

Microbial Contaminants

Contaminants	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10 ⁰ CFU/g	NA	Absent	Free from visual mold, mildew, and foreign matter
<i>Salmonella</i>	TM25: PCR	10 ⁰ CFU/g	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
25Aug2022
05:00:00 PM MDT

PREPARED BY / DATE



Jacob Folkerts
25Aug2022
05:09:00 PM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/8e9c639e-e190-4584-97f2-d121d7ce5167>

Definitions

* Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form. Examples: 10² = 100 CFU, 10³ = 1,000 CFU, 10⁴ = 10,000 CFU, 10⁵ = 100,000 CFU
CFU/g = Colony Forming Units per Gram, LOD = Limit of Detection
ULOQ = Upper Limit of Quantitation, LLOQ = Lower Limit of Quantitation
STEC = Shiga Toxin-Producing E. coli

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.



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