

CERTIFICATE OF ANALYSIS

PRODUCT NAME: Nano CBD Softgels

PRODUCT STRENGTH: 10 mg CBD

 BATCH:
 21348A

 BEST BY DATE:
 04/05/2023

 BULK LOT:
 21208

Click on the links to view third-party reports

Physical Atttributes

Test	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 10 mg / softgel	10.4 mg	PASS
Potency - D9-THC	HPLC-UV DAD	LOQ: >0.01% (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 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	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 Quantitation, † Parts Per Million † Part Per Billion CFU/g=Colony Forming Units per Gram *Nothing Less Than 10^2=100 CFU 10^3=1,000 CFU

Quality Certified Keegan Schlittler

Keegan Schlittler

12/21/2021

Date

Nano Softgels 10mg

Lot# 21208 rec'd 4/7/2021 11:49:35 AM

total cannabinoids 11.0mg

per

Gelcap

prod. date 4/5/2021 order 10354

CBD# 10.4mg

THC‡ ND

This Product Has Been **Tested and Complies** with 7USC1639o(1)

MSP-7.5 1 8

Pesticides

Stillwater Laboratories

7USC1639 Certificate of Analysis



LOO error

result

Potency per	Gelcap	MSP-7 5 1.4	error LOD LOO (95%CI k=2)
	tal cannabinoids total THC‡ THC (THC+THCa)	11.0mg ND ND	0.06 0.18 ±0.38mg 0.06 0.18 ±0.18mg 0.06 0.18 ±0.18mg
tota	total CBD‡	10.4mg 10.4mg	0.06 0.18 ±0.37mg 0.06 0.18 ±0.37mg

tetrahydrocannabolic acid (THCa) NĎ Δ9-tetrahydrocannabinol (Δ9 THC) ND ND Δ8-tetrahydrocannabinol (Δ8 THC) tetrahydrocannabivarin (THCv) cannabidiolic acid (CBDa) cannabidiol (CBD) ND ND 10.4mg cannabidivarin (CBDv) NĎ cannabigerolic acid (CBGa) ND cannabigerol (CBG) 0.6mg cannabinol (CBN) ND cannabichromene (CBC) ND

0.06 | 0.19 | ±0.19mg 0.06 | 0.18 | ±0.18mg 0.08 | 0.24 | ±0.24mg 0.07 | 0.20 | ±0.20mg 0.05 | 0.16 | ±0.16mg 0.06 | 0.19 | ±0.37mg 0.06 | 0.18 | ±0.18mg 0.06 | 0.17 | ±0.17mg 0.02 | 0.05 | ±0.06mg 0.03 | 0.10 | ±0.10mg 0.06 | 0.18 | ±0.18mg

Microbial	MSP-7.5.1.10	limit	LOD LOO error result
E.coli Salmonella sp. molds Ochratoxin A Aflatoxin B1B2G1G2	ND ND ND ND	0CFU 0CFU 10000CFU 20 ppb 20 ppb	0.010.11±0.1CFU PASS 0.010.11±0.1CFU PASS 2.517.41±7.4CFU PASS 0.511.41±1.4 ppb PASS 0.511.51±1.5 ppb PASS
Solvente	MSD 75 1 7	limit	LOD LOO arror regult

Ivents	MSP-7.5.1	7 limit	LOD LOO error	result
Acetone Acetonitrile Benzene Butane Chloroform Cyclohexane Ethanol	ND ND ND ND ND ND	5000 ppm 410 ppm 0 ppm 5000 ppm 0 ppm 0 ppm 10000 ppm	0.7 2.1 ±2.1 ppm 0.6 1.8 ±1.8 ppm 0.0 0.1 ±0.1 ppm 1.4 4.2 ±4.2 ppm 0.1 0.2 ±0.2 ppm 0.5 1.6 ±1.6 ppm 0.7 2.1 ±2.1 ppm	PASS PASS PASS PASS PASS PASS PASS
Heptane Hexane Isopropyl alcohol Methanol Pentane Propane Toluene Xylenes	ND ND ND ND ND ND ND	5000 ppm 290 ppm 5000 ppm 3000 ppm 5000 ppm 5000 ppm 890 ppm 2170 ppm	0.4 1.2 ±1.2 ppm 0.5 1.6 ±1.6 ppm 0.6 1.9 ±1.9 ppm 0.5 1.6 ±1.6 ppm 0.2 0.6 ±0.6 ppm 0.5 1.6 ±1.6 ppm 0.3 0.9 ±0.9 ppm 0.3 1.0 ±1.0 ppm	PASS PASS PASS PASS PASS PASS PASS PASS

Metals	MSP-7_5 1 1	limit	LOD LOO error	result
Arsenic Cadmium Lead Mercury	ND ND ND	1500 ppb 500 ppb 500 ppb 300 ppb	2.8 8.5 ±8.5 ppb 3.0 9.1 ±9.1 ppb 4.7 14.2 ±14.2 ppb 2.4 7.1 ±7.1 ppb	PASS PASS PASS
Pesticides	MSP-7 5 1 8	limit	LOD LOQ error	result
Pyrethrin Pyridaben Spinetoram Spinosad Spiromesifen Spirotetramat Spiroxamine Tebuconazote Thiacloprid Thiamethoxam Trifloxystrobin	ND ND ND ND ND ND ND ND	1.00 ppm 3.00 ppm 3.00 ppm 3.00 ppm 12.00 ppm 13.00 ppm 0.00 ppm 0.00 ppm 0.10 ppm 4.50 ppm 30.00 ppm	0.003 0.009 ±0.009 ppm 0.001 0.003 ±0.003 ppm 0.004 0.012 ±0.012 ppm 0.008 0.023 ±0.023 ppm 0.004 0.011 ±0.011 ppm 0.003 0.008 ±0.008 ppm 0.001 0.003 ±0.003 ppm 0.001 0.003 ±0.007 ppm 0.001 0.004 ±0.004 ppm 0.003 0.010 ±0.010 ppm 0.003 0.010 ±0.010 ppm	PASS PASS PASS PASS PASS PASS PASS PASS

	Abamectin	ND	0.30 ppm	0.008 0.025 ±0.025 ppm	PASS
	Acephate	ND	5.00 ppm	0.009 0.026 ±0.026 ppm	PASS
	Acequinocyl	ND	4.00 ppm	0.007 0.022 ±0.022 ppm	PASS
	Acetamiprid	ND	5.00 ppm	0.006 0.018 ±0.018 ppm	PASS
	Aldicarb	ND	0.00 ppm	0.002 0.007 ±0.007 ppm	PASS
ш	Azoxystrobin	ND	40.00 ppm	0.002 0.007 ±0.007 ppm	PASS
-	Bifenazate	ND	5.00 ppm	0.002 0.005 ±0.005 ppm	PASS
DATE	Bifenthrin	ND	0.50 ppm	0.001 0.003 ±0.003 ppm	PASS
Ш	Boscalid	ND	10.00 ppm	0.024 0.071 ±0.071 ppm	PASS
SUE	Carbaryl	ND	0.50 ppm	0.009 0.028 ±0.028 ppm	PASS
S	Carbofuran	ND	0.00 ppm	0.002 0.006 ±0.006 ppm	PASS
AND IS	Chloantraniliprole	ND	40.00 ppm	0.023 0.068 ±0.068 ppm	PASS
Z	Chlorfenapyr	ND	0.00 ppm	0.006 0.018 ±0.018 ppm	PASS
A	Chlorpyrifos	ND	0.00 ppm	0.047 0.141 ±0.141 ppm	PASS
\Box	Clofentezine	ND	0.50 ppm	0.009 I 0.026 I ±0.026 ppm	PASS
	Coumaphos	ND	0.00 ppm	0.006 0.018 ±0.018 ppm	PASS
<u></u>	Cyfluthrin	ND	1.00 ppm	0.009 I 0.026 I ±0.026 ppm	PASS
O	Cypermethrin	ND	1.00 ppm	0.006 I 0.018 I ±0.018 ppm	PASS
LL.	Daminozide	ND	0.00 ppm	0.032 I 0.096 I ±0.096 ppm	PASS
E	Dichlorvos	ND	0.00 ppm	0.016 0.049 ±0.049 ppm	PASS
Ш	Diazinon	ND	0.20 ppm	0.001 I 0.004 I ±0.004 ppm	PASS
()	Dimethoate	ND	0.00 ppm	0.002 0.007 ±0.007 ppm	PASS
I	Etoxazole	ND	1.50 ppm	0.004 0.013 ±0.013 ppm	PASS
2	Fenoxycarb	ND	0.00 ppm	0.004 0.012 ±0.012 ppm	PASS
X	Fenpyroximate	ND	2.00 ppm	0.001 I 0.004 I ±0.004 ppm	PASS
WATERMARK MUST MATCH CERTIFICATE	Fipronil	ND	0.00 ppm	0.009 0.026 ±0.026 ppm	PASS
(O	Flonicamid	ND	2.00 ppm	0.114 0.341 ±0.341 ppm	PASS
<u>ລ</u>	Fludioxonil	ND	30.00 ppm	0.008 0.023 ±0.023 ppm	PASS
2	Hexythiazox	ND	2.00 ppm	0.001 I 0.003 I ±0.003 ppm	PASS
¥	lmazalil	ND	0.00 ppm	0.008 0.023 ±0.023 ppm	PASS
A	Imidacloprid	ND	3.00 ppm	0.001 I 0.004 I ±0.004 ppm	PASS
Σ	Malathion	ND	5.00 ppm	0.006 0.018 ±0.018 ppm	PASS
Ш.	Metalaxyl	ND	15.00 ppm	0.009 0.026 ±0.026 ppm	PASS
H	Methiocarb	ND	0.00 ppm	0.004 0.013 ±0.013 ppm	PASS
Š	Methomyl	ND	0.10 ppm	0.001 I 0.002 I ±0.002 ppm	PASS
	Methyl parathion	ND	0.00 ppm	0.001 I 0.004 I ±0.004 ppm	PASS
Ш	Mevinphos	ND	0.00 ppm	0.006 0.018 ±0.018 ppm	PASS
FEATURE	Myclobutanil	ND	9.00 ppm	0.001 I 0.003 I ±0.003 ppm	PASS
7	Naled	ND	0.50 ppm	0.006 0.018 ±0.018 ppm	PASS
A	Oxamvl	ND	0.20 ppm	0.003 0.008 ±0.008 ppm	PASS
Ш	Paclobutrazol	ND	0.00 ppm	0.003 0.010 ±0.010 ppm	PASS
	Permethrin	ND	20.00 ppm	0.011 I 0.034 I ±0.034 ppm	PASS
느	Phosmet	ND	0.20 ppm	0.003 0.010 ±0.010 ppm	PASS
ECURITY	Piperonylbutoxide	ND	8.00 ppm	0.012 I 0.035 I ±0.035 ppm	PASS
Ö	Prallethrin	ND	0.40 ppm	0.004 0.013 ±0.013 ppm	PASS
S	Propiconazole	ND	20.00 ppm	0.004 0.013 ±0.013 ppm	PASS
~,	Propoxur	ND	0.00 ppm	0.007 0.020 ±0.020 ppm	PASS
	Parier				

Certified by:

Kyle Larson, MSc Deputy Director

Jack Paces

Jacob Harris QA Manager

ACCREDITED Certificate #4961.01

ISO/IEC 17025:2017

https://portal.a2la.org/ scopepdf/4961-01.pdf

Stillwater Laboratories Inc. MT License L0001. L00007 6073 US93N Suite 5, Olney MT 59927 406-881-2019

INSTRUMENTS: Potency by HPLC (LC2030C-UV), solvents and terpenes by GCMS (QP2020/HS20), pesticides and mycotoxins by LCMSMS (LC8060), microbial by qPCR (AriaMx) and plating (Hardy Diagnostics), metals by ICPMS (ICPMS-2030)

• All testing was completed onsite at 6073 US93N, Olney MT \cdots Potency (cannabinoid concentration) is calcuated as: [cannabioid] = [cannabinoid]_{HPLC} x volume_diskton/mflag- \cdots Decarboxyted cannabinoid concentration is calculated XXX_{total} = 0.877 x XXXA + XXX \cdots Standards are used to calibrate the resulting data and estimate error using a standard estimate of error method; LOD is the limit of detection (3.3s). LOQ is the limit of quantification (3xLOD), and experimental error is calculated from weighing, dilution, and interpolation error using the formula $s_y^2 = \sum_{(\partial 1/\partial i)^2} s_y^2$ where i is the contributor to error. The 95% confidence range is calculated from: (concentration) $\pm t_{CL90}$ x s_y . Sampling error is not considered in error calculations. ND = not detected (< LOD), NT = not tested, NL = no limit, NA = not applicable. \ddagger = decarbed

Printed 4/13/2021 3:30 PM



Official Compliance: Colorado

CFRTIFICATE OF ANALYSIS

FT. COLLINS, CO 80528

Prepared for:

JOY ORGANICS SG10

Batch ID or Lot Number: Test: Reported: Location: 5042 Technology Parkway Ste. 50

21348A **Microbial Contaminants**

12/15/2021 @ 12:42 PM

12/20/21

Test ID: Started: **USDA License:** Matrix:

Finished Product T000182545 12/16/21 N/A

Methods: Sampler ID: Status: Received:

> TM24, TM26, TM27(Culture Plating): Microbial (Colorado Panel)

MICROBIAL CONTAMINANTS DETERMINATION

TM25 (qPCR)

Contaminant	Method	LOD	LLOQ	ULOQ	Result
Total Aerobic Count*	TM-26, Culture Plating	10^2 CFU/g	10^3 CFU/g	1.5x10^5 CFU/g	None Detected
Total Coliforms*	TM-27, Culture Plating	10^1 CFU/g	10^2 CFU/g	1.5x10^4 CFU/g	None Detected
Total Yeast and Mold*	TM-24, Culture Plating	10^1 CFU/g	10^2 CFU/g	1.5x10^4 CFU/g	None Detected
E. coli (STEC)	TM-25, PCR	1 CFU/25 g	NA	NA	Absent
Salmonella	TM-25, PCR	1 CFU/25 g	NA	NA	Absent

Notes Free from visual mold, mildew, and foreign

matter

N/A

Eden Thompson

Eden Thompson-Wright 12/20/2021

12:41:00 PM

APPROVED BY / DATE

Brett Hudson 12/20/2021 5:31:00 PM

Definitions

PREPARED BY / DATE

N/A

LOD = Limit of Detection | LLOQ = Lower Limit of Quantitation | ULOQ = Upper Limit of Quantitation CFU/g = Colony Forming Units per Gram | STEC = Shiga Toxin-Producing E. coli

* 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 Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC 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 Botanacor Laboratories, LLC.





Certificate #4329 02