JOYORGANICS

CERTIFICATE OF ANALYSIS

PRODUCT NAME: PRODUCT STRENGTH: TINCTURE BATCH: **BEST BY DATE: HEMP EXTRACT LOT:**

Nano CBD Softgels with Melatonin

25 mg CBD / 3 mg Melatonin / 3mg CBN 22BL06537- 220721A 6/8/2024 22BL06537

Physical Atttributes

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	*NTL 25mg / softgel	29.25mg	PASS
Potency - D9-THC	HPLC-UV DAD	LOQ: <0.01% THC (Broad Spectrum)	ND	PASS
Expanded Pesticide Panel	HPLC-QQQ	LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract	ND	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	ND	PASS
Mycotoxins	ICP-MS	Total Aflatoxins <20 ppb† Afltoxin B1 < 5 ppb Ochratoxin < 5ppb	ND	PASS
Residual Solvents	GC-HS-MSD	LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract	ND	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

6

Name

Quality Certified

Date

7/26/22

2519 S. Shields St. #1042, Fort Collins, CO 80526 Tel: (833) 569-7223 www.joyorganics.com

FO-106 Certificate of Analysis Rev. 1.1 - Effective Date: 6/29/2022



Sleep Softgel

Batch ID or Lot Number:	Test:	Reported:	USDA License:
22BL06537- 220721A	Potency	24Jun2022	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Unit	T000211071	23Jun2022	N/A
	Method(s):	Received:	Status:
	TM14 (HPLC-DAD)	21Jun2022	N/A

LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
0.101	0.314	ND	ND	# of Servings = 1,
0.092	0.288	ND	ND	Sample
0.234	0.792	29.25	65.00	Weight=0.45g
0.240	0.812	ND	ND	
0.055	0.187	0.070	0.10	
0.100	0.339	ND	ND	
0.057	0.179	2.150	4.00	
0.239	0.746	ND	ND	
0.075	0.233	3.960	7.30	
0.163	0.509	ND	ND	
0.285	0.889	ND	ND	
0.259	0.807	ND	ND	
0.229	0.715	ND	ND	
0.052	0.162	ND	ND	
0.202	0.631	ND	ND	
		41.360	76.44	
		ND	ND	
		35.180	65.02	
	0.101 0.092 0.234 0.240 0.055 0.100 0.057 0.239 0.075 0.163 0.285 0.259 0.229 0.052	0.101 0.314 0.092 0.288 0.234 0.792 0.240 0.812 0.055 0.187 0.100 0.339 0.557 0.179 0.239 0.746 0.075 0.233 0.163 0.509 0.285 0.889 0.259 0.807 0.229 0.715 0.052 0.162	0.101 0.314 ND 0.092 0.288 ND 0.234 0.792 29.25 0.240 0.812 ND 0.055 0.187 0.070 0.100 0.339 ND 0.057 0.179 2.150 0.239 0.746 ND 0.075 0.233 3.960 0.163 0.509 ND 0.259 0.807 ND 0.229 0.715 ND 0.229 0.715 ND 0.229 0.631 ND 0.202 0.631 ND	0.101 0.314 ND ND 0.092 0.288 ND ND 0.234 0.792 29.25 65.00 0.240 0.812 ND ND 0.055 0.187 0.070 0.10 0.100 0.339 ND ND 0.057 0.179 2.150 4.00 0.239 0.746 ND ND 0.075 0.233 3.960 7.30 0.163 0.509 ND ND 0.259 0.807 ND ND 0.259 0.631 ND ND 0.229 0.715 ND ND 0.202 0.631 ND ND

Final Approval

Danuel Ward

PREPARED BY / DATE

Daniel Weidensaul 24Jun2022 01:26:00 PM MDT

APPROVED BY / DATE

Jacob Miller 24Jun2022 01:28:00 PM MDT



Definitions

% = % (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)).

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. ISO/IEC 17025:2017 Accredited by A2LA.





Sleep Softgel

Batch ID or Lot Number: 22BL06537- 220721A	Test: Microbial Cont a	aminants	Reported: 27Jun2022		USDA License: NA
Matrix:	Test ID:		Started:		Sampler ID:
Finished Product	T000211072		22Jun2022		NA
	Method(s):		Received:		Status:
	TM25 (PCR) TM2 (Culture Plating)		21Jun2022		NA
Microbial			Quantitation		
Contaminants	Method	LOD	Range	Result	Notes
STEC	TM25: PCR	10 ⁰ CFU/g	NA	Absent	Free from visual mold, mildew, and
Salmonella	TM25: PCR	10 ⁰ CFU/g	NA	Absent	— foreign matter
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

Carly Bade

PREPARED BY / DATE

Carly Bader 25Jun2022 12:50:00 PM MDT

Eden Thompson

Eden Thompson-Wright 27Jun2022 09:32:00 AM MDT



APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/ec19b0f9-0d28-4cb0-bb41-98dd26383b42

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: $10^2 = 100 \text{ CFU}$, $10^3 = 1,000 \text{ CFU}$, $10^4 = 10,000 \text{ CFU}$, $10^5 = 100,000 \text{ CFU}$ 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

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Batch ID or Lot Number:	Test:	Reported:	USDA License:
22BL06314	Mycotoxins	30Jun2022	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000211863	29Jun2022	N/A
	Method(s):	Received:	Status:
	TM18 (UHPLC-QQQ LCMS/MS):	24Jun2022	Active
	Mycotoxins		
Mycotoxins	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	1.66 - 134.50	ND	N/A
Aflatoxin B1	1.04 - 33.53	ND	
Aflatoxin B2	1.36 - 33.27	ND	
Aflatoxin G1	1.14 - 33.17	ND	
Aflatoxin G2	1.49 - 33.56	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval

Samanthe Sm

PREPARED BY / DATE

Sam Smith 30Jun2022 03:25:00 PM MDT

APPROVED BY / DATE

Jacob Miller 30Jun2022 03:29:00 PM MDT



https://results.botanacor.com/api/v1/coas/uuid/4024c153-0d64-4f3c-97b3-f4e1bb933c77

Definitions

ND = None Detected (defined by dynamic range of the method) Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

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Batch ID or Lot Number:	Test:	Reported:	USDA License:
22BL06314	Residual Solvents	27Jun2022	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000211861	27Jun2022	N/A
	Method(s):	Received:	Status:
	TM04 (GC-MS): Residual Solvents	24Jun2022	Active

Residual Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	68 - 1364	ND	
Butanes (Isobutane, n-Butane)	141 - 2815	ND	
Methanol	54 - 1085	ND	
Pentane	78 - 1561	ND	
Ethanol	80 - 1605	ND	
Acetone	87 - 1748	ND	
lsopropyl Alcohol	88 - 1770	ND	
Hexane	5 - 108	ND	
Ethyl Acetate	88 - 1768	ND	
Benzene	0.2 - 3.7	ND	
Heptanes	89 - 1788	ND	
Toluene	16 - 325	ND	
Xylenes (m,p,o-Xylenes)	121 - 2415	ND	

Final Approval

PREPARED BY / DATE

Jacob Miller 28Jun2022 06:31:00 PM MDT

Tamuel Wordon

Daniel Weidensaul 28Jun2022 06:31:00 PM MDT



APPROVED BY / DATE

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Definitions

ND = None Detected (defined by dynamic range of the method) Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

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Batch ID or Lot Number:	Test:	Reported:	USDA License:
22BL06314	Pesticides	01Jul2022	NA
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000211858	30Jun2022	NA
	Method(s):	Received:	Status:
	TM17 (LC-QQ LC MS/MS)	24Jun2022	NA

Pesticides	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)
Abamectin	306 - 2780	ND	Malathion	293 - 2714	ND
Acephate	41 - 2758	ND	Metalaxyl	49 - 2730	ND
Acetamiprid	43 - 2772	ND	Methiocarb	45 - 2812	ND
Azoxystrobin	47 - 2763	ND	Methomyl	42 - 2766	ND
Bifenazate	44 - 2736	ND	MGK 264 1	109 - 1647	ND
Boscalid	67 - 2718	ND	MGK 264 2	121 - 1152	ND
Carbaryl	38 - 2723	ND	Myclobutanil	48 - 2785	ND
Carbofuran	42 - 2701	ND	Naled	43 - 2785	ND
Chlorantraniliprole	54 - 2793	ND	Oxamyl	42 - 2761	ND
Chlorpyrifos	37 - 2809	ND	Paclobutrazol	43 - 2735	ND
Clofentezine	280 - 2747	ND	Permethrin	298 - 2789	ND
Diazinon	283 - 2744	ND	Phosmet	40 - 2703	ND
Dichlorvos	280 - 2791	ND	Prophos	287 - 2772	ND
Dimethoate	45 - 2764	ND	Propoxur	42 - 2706	ND
E-Fenpyroximate	290 - 2692	ND	Pyridaben	299 - 2798	ND
Etofenprox	41 - 2790	ND	Spinosad A	36 - 2226	ND
Etoxazole	297 - 2747	ND	Spinosad D	48 - 496	ND
Fenoxycarb	36 - 2767	ND	Spiromesifen	235 - 2780	ND
Fipronil	22 - 2702	ND	Spirotetramat	293 - 2658	ND
Flonicamid	48 - 2771	ND	Spiroxamine 1	19 - 1200	ND
Fludioxonil	332 - 2811	ND	Spiroxamine 2	25 - 1585	ND
Hexythiazox	46 - 2810	ND	Tebuconazole	284 - 2785	ND
Imazalil	292 - 2777	ND	Thiacloprid	43 - 2757	ND
Imidacloprid	44 - 2773	ND	Thiamethoxam	42 - 2794	ND
Kresoxim-methyl	52 - 2813	ND	Trifloxystrobin	43 - 2746	ND

Final Approval

PREPARED BY / DATE

Danuel Wal

Daniel Weidensaul 01Jul2022 12:16:00 PM MDT

amantha Si

APPROVED BY / DATE

Sam Smith 01Jul2022 12:23:00 PM MDT



Definitions

ND = None Detected (defined by dynamic range of the method) Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range ppb = Parts Per Billion

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Batch ID or Lot Number:	Test:	Reported:	USDA License:
22BL06314	Heavy Metals	28Jun2022	NA
Matrix:	Test ID:	Started:	Sampler ID:
Unit Co	T000211860	27Jun2022	NA
	Method(s):	Received:	Status:
	TM19 (ICP-MS): Heavy Metals	24Jun2022	NA

Heavy Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.08 - 7.90	ND	
Cadmium	0.08 - 7.87	ND	-
Mercury	0.08 - 7.80	ND	
Lead	0.08 - 7.99	ND	0

Final Approval

Danuel Ward

PREPARED BY / DATE

Daniel Weidensaul 29Jun2022 08:05:00 PM MDT

Cautiny Richalde

APPROVED BY / DATE

Courtney Richards 29Jun2022 09:10:00 PM MDT



https://results.botanacor.com/api/v1/coas/uuid/22d7332e-3323-474d-afd2-d7af9d97a46d

Definitions

ND = None Detected (defined by dynamic range of the method) Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

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