

CERTIFICATE OF ANALYSIS

PRODUCT NAME:	Nano CBD Softgels with Curcumin	Prepared for: Astraèa & Co.
PRODUCT STRENGTH:	25 mg CBD / 250mg Curcumin	50 E. Ridgewood Ave. STE 303
TINCTURE BATCH:	220809A	Ridgewood, NJ 07450
BEST BY DATE:	7/29/2024	

Physical Attributes

Test	Method	Specification	Results
Color	Internal	Red	PASS
Odor	Internal	No Odor	PASS
Appearance	Internal	Dry, ovoid softgel capsules in container with lid and shrink-band	PASS
Primary Package Eval.	Internal	Container clean and free of filth. Container caps tight and shrink bands intact	PASS
Secondary Package Eval.	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	28.9mg	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
10²=100 CFU
10³=1,000 CFU



8/15/22

Quality Certified

Name

Date



12423 NE Whitaker Way
 Portland, OR 97230
 503-254-1794



Report Number: 22-009263/D005.R000
Report Date: 08/15/2022
ORELAP#: OR100028
Purchase Order:
Received: 08/04/22 10:42

Product identity: SKU # SG25C - Batch #
Client/Metrac ID: 22073002 .
Laboratory ID: 22-009263-0001

Summary

Potency:

Analyte	Result	Limits	Units	Status	
CBC	0.0734		%		CBD-Total per Serving Size 28.9 mg/0.36g ----- THC-Total per Serving Size <LOQ ----- (Reported in milligrams per serving)
CBD	8.03		%		
CBDV	0.0299		%		
CBG	0.924		%		
Analyte per 0.36g					
CBC per 0.36g	0.264		mg/0.36g		
CBD per 0.36g	28.9		mg/0.36g		
CBDV per 0.36g	0.108		mg/0.36g		
CBG per 0.36g	3.33		mg/0.36g		

Residual Solvents:

All analytes passing and less than LOQ.

Pesticides:

All analytes passing and less than LOQ.

Metals:

Less than LOQ for all analytes.

Microbiology:

Less than LOQ for all analytes.



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Product identity: SKU # SG25C - Batch # 22073002
Client/Metric ID: .
Sample Date:
Laboratory ID: 22-009263-0001
Evidence of Cooling: No
Temp: 24.4 °C
Relinquished by: UPS
Serving Size #1: 0.36 g

Sample Results

Potency	Method: J AOAC 2015 V98-6 (mod) ^b		Units %	Batch: 2206650	Analyze: 8/6/22 3:32:00 AM
Analyte	Result	Limits	Units	LOQ	Notes
CBC	0.0734		%	0.00314	
CBC-A	< LOQ		%	0.00314	
CBC-Total	0.0734		%	0.00590	
CBD [±]	8.03		%	0.0314	
CBD-A [±]	< LOQ		%	0.00314	
CBD-Total	8.03		%	0.0342	
CBDV	0.0299		%	0.00314	
CBDV-A	< LOQ		%	0.00314	
CBDV-Total	0.0299		%	0.00587	
CBE	< LOQ		%	0.00314	
CBG	0.924		%	0.00314	
CBG-A	< LOQ		%	0.00314	
CBG-Total	0.924		%	0.00587	
CBL	< LOQ		%	0.00314	
CBL-A	< LOQ		%	0.00314	
CBL-Total	< LOQ		%	0.00590	
CBN	< LOQ		%	0.00314	
CBT	< LOQ		%	0.00314	
Δ8-THCV	< LOQ		%	0.00314	
Δ8-THC [±]	< LOQ		%	0.00314	
Δ9-THC [±]	< LOQ		%	0.00314	
exo-THC	< LOQ		%	0.00314	
THC-A [±]	< LOQ		%	0.00314	
THC-Total	< LOQ		%	0.00590	
THCV	< LOQ		%	0.00314	
THCV-A	< LOQ		%	0.00314	
THCV-Total	< LOQ		%	0.00587	
Total Cannabinoids	9.06		%		

Potency per 0.36g	Method: J AOAC 2015 V98-6 (mod) ^b		Units mg/se	Batch: 2206650	Analyze: 8/6/22 3:32:00 AM
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 0.36g	0.264		mg/0.36g	0.0113	



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Potency per 0.36g **Method:** J AOAC 2015 V98-6 (mod)^b **Units** mg/se **Batch:** 2206650 **Analyze:** 8/6/22 3:32:00 AM

Analyte	Result	Limits	Units	LOQ	Notes
CBC-A per 0.36g	< LOQ		mg/0.36g	0.0314	
CBC-Total per 0.36g	0.264		mg/0.36g	0.0212	
CBD per 0.36g	28.9		mg/0.36g	0.113	
CBD-A per 0.36g	< LOQ		mg/0.36g	0.0314	
CBD-Total per 0.36g	28.9		mg/0.36g	0.123	
CBDV per 0.36g	0.108		mg/0.36g	0.0113	
CBDV-A per 0.36g	< LOQ		mg/0.36g	0.0314	
CBDV-Total per 0.36g	0.108		mg/0.36g	0.0211	
CBE per 0.36g	< LOQ		mg/0.36g	0.0314	
CBG per 0.36g	3.33		mg/0.36g	0.0113	
CBG-A per 0.36g	< LOQ		mg/0.36g	0.0314	
CBG-Total per 0.36g	3.33		mg/0.36g	0.0211	
CBL per 0.36g	< LOQ		mg/0.36g	0.0314	
CBL-A per 0.36g	< LOQ		mg/0.36g	0.0314	
CBL-Total per 0.36g	< LOQ		mg/0.36g	0.0590	
CBN per 0.36g	< LOQ		mg/0.36g	0.0314	
CBT per 0.36g	< LOQ		mg/0.36g	0.0314	
Δ8-THCV per 0.36g	< LOQ		mg/0.36g	0.0314	
Δ8-THC per 0.36g	< LOQ		mg/0.36g	0.0314	
Δ9-THC per 0.36g	< LOQ		mg/0.36g	0.0314	
exo-THC per 0.36g	< LOQ		mg/0.36g	0.0314	
THC-A per 0.36g	< LOQ		mg/0.36g	0.0314	
THC-Total per 0.36g	< LOQ		mg/0.36g	0.0590	
THCV per 0.36g	< LOQ		mg/0.36g	0.0314	
THCV-A per 0.36g	< LOQ		mg/0.36g	0.0314	
THCV-Total per 0.36g	< LOQ		mg/0.36g	0.0590	
Total Cannabinoids per 0.36g	32.6		mg/0.36g		

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Aerobic Plate Count	< LOQ	10,000	cfu/g	10	2206589	08/07/22 AOAC 990.12 (Petrifilm) ^p	pass	
E.coli	< LOQ	100.00	cfu/g	10	2206587	08/07/22 AOAC 991.14 (Petrifilm) ^p	pass	
Total Coliforms	< LOQ	100.00	cfu/g	10	2206587	08/07/22 AOAC 991.14 (Petrifilm) ^p	pass	
Mold (RAPID Petrifilm)	< LOQ	1,000.	cfu/g	10	2206588	08/08/22 AOAC 2014.05 (RAPID) ^p	pass	
Yeast (RAPID Petrifilm)	< LOQ	1,000.	cfu/g	10	2206588	08/08/22 AOAC 2014.05 (RAPID) ^p	pass	
Salmonella spp. by PCR	Negative		/25g		2206592	08/06/22 AOAC 2020.02 ^p		
EHEC including STEC	Negative		/25g		2206594	08/06/22 AOAC RI 121806 ^p		

Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of NELAP and the Columbia Laboratories quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be retained for a maximum of 30 days from the receipt date unless prior arrangements have been made.

Testing in accordance with: OAR 333-007-0390 OAR 333-007-0410 OAR 333-007-0430



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Solvents						Method: Residual Solvents by GC/MS ^b						Units µg/g		Batch 2206873		Analyze 08/15/22 02:45 PM			
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes								
2-Methylbutane (Isopentane)	< LOQ	1000	200	pass		2-Methylpentane	< LOQ	60.0	30.0	pass									
2-Propanol (IPA) [¥]	< LOQ	1000	200	pass		2,2-Dimethylbutane	< LOQ	60.0	30.0	pass									
2,2-Dimethylpropane (neo-pentane)	< LOQ	1000	200	pass		2,3-Dimethylbutane	< LOQ	60.0	30.0	pass									
3-Methylpentane	< LOQ	60.0	30.0	pass		Acetone [¥]	< LOQ	1000	200	pass									
Benzene [¥]	< LOQ	2.00	1.00	pass		Butanes (sum)	< LOQ	1000	400	pass									
Ethanol ^l	< LOQ	1000	200	pass		Ethyl acetate [¥]	< LOQ	1000	200	pass									
Hexanes (sum)	< LOQ	60.0	150	pass		m,p-Xylene	< LOQ	430	200	pass									
Methanol ^l	< LOQ	600	200	pass		Methylpropane (Isobutane)	< LOQ	1000	200	pass									
n-Butane [¥]	< LOQ	1000	200	pass		n-Heptane [¥]	< LOQ	1000	200	pass									
n-Hexane [¥]	< LOQ	60.0	30.0	pass		n-Pentane [¥]	< LOQ	1000	200	pass									
o-Xylene	< LOQ	430	200	pass		Pentanes (sum)	< LOQ	1000	600	pass									
Propane [¥]	< LOQ	1000	200	pass		Toluene [¥]	< LOQ	180	100	pass									
Total Xylenes [¥]	< LOQ	430	400	pass															



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Pesticides											
Method: AOAC 2007.01 & EN 15662 (mod)											
Units mg/kg Batch 2206679 Analyze 08/08/22 04:59 PM											
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin	< LOQ	0.25	0.070	pass		Acephate	< LOQ	0.050	0.020	pass	
Acequinocyl	< LOQ	0.030	0.025	pass		Acetamidrid	< LOQ	0.050	0.050	pass	
Aldicarb	< LOQ	0.50	0.100	pass		Allethrin	< LOQ	0.10	0.100	pass	
Atrazine	< LOQ	0.0250	0.025	pass		Azadirachtin	< LOQ	1.0	0.500	pass	
Azoxystrobin	< LOQ	0.010	0.010	pass		Benzovindiflupyr	< LOQ	0.010	0.010	pass	
Bifenazate	< LOQ	0.010	0.010	pass		Bifenthrin	< LOQ	1.0	0.100	pass	
Boscalid	< LOQ	0.010	0.010	pass		Buprofezin	< LOQ	0.020	0.010	pass	
Carbaryl	< LOQ	0.025	0.025	pass		Carbofuran	< LOQ	0.010	0.010	pass	
Chlorantraniliprole	< LOQ	0.020	0.010	pass		Chlorfenapyr	< LOQ	1.5	0.100	pass	
Chlorpyrifos	< LOQ	0.50	0.010	pass		Clofentezine	< LOQ	0.010	0.010	pass	
Clothianidin	< LOQ	0.025	0.025	pass		Coumaphos	< LOQ	0.010	0.010	pass	
Cyantraniliprole	< LOQ	0.010	0.010	pass		Cyfluthrin	< LOQ	0.20	0.200	pass	
Cyhalothrin,lambda	< LOQ	0.0200	0.250	pass		Cypermethrin	< LOQ	0.30	0.300	pass	
Cyprodinil	< LOQ	0.010	0.010	pass		Daminozide	< LOQ	0.10	0.050	pass	
Deltamethrin	< LOQ	0.50	0.500	pass		Diazinon	< LOQ	0.020	0.010	pass	
Dichlorvos	< LOQ	0.050	0.050	pass		Dimethoate	< LOQ	0.010	0.010	pass	
Dimethomorph	< LOQ	0.050	0.050	pass		Dotefuran	< LOQ	0.050	0.050	pass	
Diuron	< LOQ	0.125	0.125	pass		Dodemorph	< LOQ	0.050	0.050	pass	
Endosulfan I (alpha)	< LOQ	2.5	0.050	pass		Endosulfan II (beta)	< LOQ	2.5	0.050	pass	
Endosulfan sulfate	< LOQ	2.5	0.050	pass		Ethoprophos	< LOQ	0.010	0.010	pass	
Etofenprox	< LOQ	0.050	0.010	pass		Etozazole	< LOQ	0.020	0.010	pass	
Etridiazole	< LOQ	0.15	0.050	pass		Fenhexamid	< LOQ	0.13	0.100	pass	
Fenoxycarb	< LOQ	0.010	0.010	pass		Fenpyroximate	< LOQ	0.020	0.020	pass	
Fensulfothion	< LOQ	0.010	0.010	pass		Fenthion	< LOQ	0.010	0.010	pass	
Fenvalerate	< LOQ		0.200			Fipronil	< LOQ	0.010	0.010	pass	
Flonicamid	< LOQ	0.025	0.025	pass		Fludioxonil	< LOQ	0.010	0.010	pass	
Fluopyram	< LOQ	0.010	0.010	pass		Hexythiazox	< LOQ	0.010	0.010	pass	
Imazalil	< LOQ	0.010	0.010	pass		Imidacloprid	< LOQ	0.010	0.010	pass	
Iprodione	< LOQ	0.50	0.500	pass		Kinoprene	< LOQ	1.3	0.200	pass	
Kresoxim-methyl	< LOQ	0.15	0.010	pass		Malathion	< LOQ	0.010	0.010	pass	
Metalaxyl	< LOQ	0.010	0.010	pass		Methiocarb	< LOQ	0.010	0.010	pass	
Methomyl	< LOQ	0.025	0.025	pass		Methoprene	< LOQ	2.0	1.00	pass	
Mevinphos	< LOQ	0.025	0.025	pass		MGK-264	< LOQ	0.050	0.050	pass	
Myclobutanil	< LOQ	0.010	0.010	pass		Naled	< LOQ	0.10	0.100	pass	
Novaluron	< LOQ	0.025	0.025	pass		Oxamyl	< LOQ	1.5	0.500	pass	
Paclobutrazole	< LOQ	0.010	0.010	pass		Parathion-Methyl	< LOQ	0.050	0.030	pass	
Permethrin	< LOQ	0.50	0.040	pass		Phenothrin	< LOQ	0.050	0.025	pass	
Phosmet	< LOQ	0.020	0.010	pass		Piperonyl butoxide	< LOQ	1.3	0.200	pass	
Pirimicarb	< LOQ	0.010	0.010	pass		Prallethrin	< LOQ	0.050	0.050	pass	
Propiconazole	< LOQ	0.10	0.010	pass		Propoxur	< LOQ	0.010	0.010	pass	
Pyraclostrobin	< LOQ	0.010	0.010	pass		Pyrethrins (total)	< LOQ	0.050	0.025	pass	
Pyridaben	< LOQ	0.020	0.020	pass		Pyriproxyfen	< LOQ	0.0100	0.010	pass	
Quintozene	< LOQ	0.020	0.020	pass		Resmethrin	< LOQ	0.050	0.020	pass	
Spinetoram	< LOQ	0.010	0.010	pass		Spinosad	< LOQ	0.010	0.010	pass	
Spirodiclofen	< LOQ	0.25	0.250	pass		Spiromesifen	< LOQ	3.0	0.030	pass	
Spirotetramat	< LOQ	0.010	0.010	pass		Spiroxamine	< LOQ	0.10	0.010	pass	



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Pesticides											
Method: AOAC 2007.01 & EN 15662 (mod)						Units mg/kg		Batch 2206679		Analyze 08/08/22 04:59 PM	
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Tebuconazole	< LOQ	0.010	0.010	pass		Tebufenozide	< LOQ	0.010	0.010	pass	
Teflubenzuron	< LOQ	0.025	0.025	pass		Tetrachlorvinphos	< LOQ	0.010	0.010	pass	
Tetramethrin	< LOQ	0.10	0.050	pass		Thiacloprid	< LOQ	0.010	0.010	pass	
Thiamethoxam	< LOQ	0.010	0.010	pass		Thiophanate-Methyl	< LOQ	0.050	0.030	pass	
Trifloxystrobin	< LOQ	0.010	0.010	pass							

Metals											
Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method		Status	Notes		
Arsenic	< LOQ	1.50	mg/kg	0.0355	2206687	08/08/22	AOAC 2013.06 (mod.) ^P	pass			
Cadmium	< LOQ	0.50	mg/kg	0.0355	2206687	08/08/22	AOAC 2013.06 (mod.) ^P	pass			
Lead	< LOQ	0.50	mg/kg	0.0355	2206687	08/08/22	AOAC 2013.06 (mod.) ^P	pass			
Mercury	< LOQ	1.50	mg/kg	0.0177	2206687	08/08/22	AOAC 2013.06 (mod.) ^P	pass			

Mycotoxins											
Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method		Status	Notes		
Aflatoxin B2 ^Y	< LOQ	5.00	µg/kg	5.00	2206736	08/10/22	AOAC 2007.01 & EN 15662 (mod) ^P	pass			
Aflatoxin B1 ^Y	< LOQ	5.00	µg/kg	5.00	2206736	08/10/22	AOAC 2007.01 & EN 15662 (mod) ^P	pass			
Aflatoxin G1 ^Y	< LOQ	5.00	µg/kg	5.00	2206736	08/10/22	AOAC 2007.01 & EN 15662 (mod) ^P	pass			
Aflatoxin G2 ^Y	< LOQ	5.00	µg/kg	5.00	2206736	08/10/22	AOAC 2007.01 & EN 15662 (mod) ^P	pass			
Deoxynivalenol ^Y	< LOQ		µg/kg	200	2206736	08/10/22	AOAC 2007.01 & EN 15662 (mod) ^P				
Fumonisin B1 ^Y	< LOQ		µg/kg	200	2206736	08/10/22	AOAC 2007.01 & EN 15662 (mod) ^P				
Fumonisin B2 ^Y	< LOQ		µg/kg	200	2206736	08/10/22	AOAC 2007.01 & EN 15662 (mod) ^P				
HT2-Toxin ^Y	< LOQ		µg/kg	40.0	2206736	08/10/22	AOAC 2007.01 & EN 15662 (mod) ^P				
Ochratoxin A ^Y	< LOQ	5.00	µg/kg	5.00	2206736	08/10/22	AOAC 2007.01 & EN 15662 (mod) ^P	pass			
Ochratoxin B ^Y	< LOQ		µg/kg	2.00	2206736	08/10/22	AOAC 2007.01 & EN 15662 (mod) ^P				
T2-Toxin ^Y	< LOQ		µg/kg	20.0	2206736	08/10/22	AOAC 2007.01 & EN 15662 (mod) ^P				
Zearalenone ^Y	< LOQ		µg/kg	200	2206736	08/10/22	AOAC 2007.01 & EN 15662 (mod) ^P				