JOY ORGANICS

CERTIFICATE OF ANALYSIS

PRODUCT NAME: Nano CBD Softgels
PRODUCT STRENGTH: 25 mg CBD
TINCTURE BATCH: 260514D
BEST BY DATE: 4/13/2029
HEMP EXTRACT LOT: 26040207, 2226-LG-CNDD

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	*NLT 25 mg / softgel	**24mg**	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† 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 — Name — 6/3/2026 Date

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

Cannabinoid Analysis

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: 24.003 mg/unit

Total CBD (CBD+0.877*CBDa)

TOTAL CANNABINOIDS: 24.416 mg/unit

Total Cannabinoids (Total THC) + (Total CBD) + (Total CBG) + (Total THCV) + (Total CBC) + (Total CBDV) + Δ^8-THC + CBL + CBN

TOTAL CBG: 0.023 mg/unit

Total CBG (CBG+0.877*CBGa)

TOTAL THCV: ND

Total THCV (THCV+0.877*THCVa)

TOTAL CBC: 0.150 mg/unit

Total CBC (CBC+0.877*CBCa)

TOTAL CBDV: 0.149 mg/unit

Total CBDV (CBDV+0.877*CBDVa)

CANNABINOID TEST RESULTS - 04/25/2026

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
CBD	*0.004 / 0.011*	*±1.6861*	45.204	4.5204
CBC	*0.003 / 0.010*	*±0.0091*	0.283	0.0283
CBDV	*0.002 / 0.012*	*±0.0114*	0.280	0.0280
CBN	*0.001 / 0.007*	*±0.0033*	0.114	0.0114
CBL	*0.003 / 0.010*	*±0.0021*	0.057	0.0057
CBG	*0.002 / 0.006*	*±0.0021*	0.044	0.0044
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
CBGa	*0.002 / 0.007*	*N/A*	ND	ND
CBCa	*0.001 / 0.015*	*N/A*	ND	ND
SUM OF CANNABINOIDS			45.982 mg/g	4.5982%

Unit Mass: 0.531 gram per Unit / Serving Size: 0.4 gram per Serving

Δ^9-THC per Unit	ND
Δ^9-THC per Serving	ND
Total THC per Unit	ND
Total THC per Serving	ND
CBD per Unit	24.003 mg/unit
CBD per Serving	18.082 mg/serving
Total CBD per Unit	24.003 mg/unit
Total CBD per Serving	18.082 mg/serving
Sum of Cannabinoids per Unit	24.416 mg/unit
Sum of Cannabinoids per Serving	18.393 mg/serving
Total Cannabinoids per Unit	24.416 mg/unit
Total Cannabinoids per Serving	18.393 mg/serving

NOTES
Sample serving mass provided by client.

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Gobi Labs
Residual Solvent Analysis Report

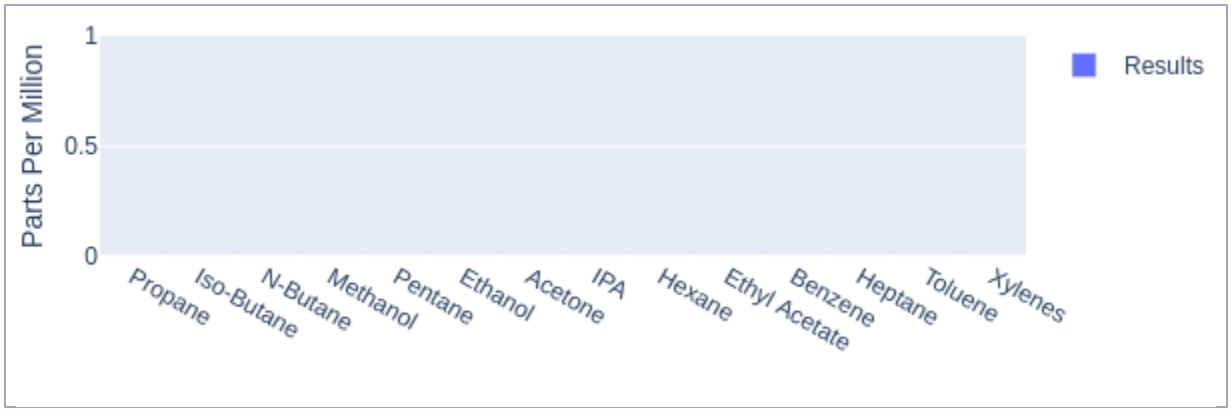
Manifest: 0011267311
METRC ID: 1A4000B0000EE49000004885
Sample Name: SG25-260514D
Sample Type: Softgels

Test Performed: Residual Solvent
Report No: R-11267311-V1
Receive Date: 2025-08-18
Test Date: 2025-08-19
Report Date: 2025-08-20
Sample Condition: Good
Method Reference: GA-OP-08

Scope: The content of fifteen residual solvents was determined by an in-house developed method certified by CDPHE for Headspace-Gas Chromatography with Flame Ionization Detection. This testing was performed for compliance purposes.

Solvent	Limits (ppm)			Result (ppm)
	Regulatory	LOD	LOQ	
Propane	<1000	47.0	142.3	<LOD
Iso-Butane	Total Butanes <1000	55.5	168.0	<LOD
N-Butane	Total Butanes <1000	68.1	206.4	<LOD
Methanol	<600	34.8	105.4	<LOD
Pentane	<1000	64.8	196.4	<LOD
Ethanol	<1000	87.8	266.1	<LOD
Acetone	<1000	71.4	216.4	<LOD
IPA	<1000	86.3	261.5	<LOD
Hexane	<60	11.5	35.0	<LOD
Ethyl Acetate	<1000	71.6	217.0	<LOD
Benzene	<2	0.3	1.0	<LOD
Heptane	<1000	58.8	178.2	<LOD
Toluene	<180	31.1	94.3	<LOD
Xylenes	<430	61.4	185.9	<LOD

LOD = Limit of detection
LOQ = Limit of quantitation
<LOD = Sample result is below the LOD.
<LOQ = Sample result is above the LOD and below the LOQ.
*Estimated result, greater than the upper limit of quantitation (>ULOQ)



Lab Comments:

2025-08-20

Rachel Bard - Lead Analyst & Client Relations — Date

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PJLA Testing Accreditation #103051

Gobi Labs
Pesticide Residues Report

Manifest: 0011284949
METRC ID: 1A4000B0000EE49000004896
Sample Name: SG25-260514D
Sample Type: Softgels

Test Performed: Pesticide
Report No: PE-11284949-V1
Receive Date: 2025-08-27
Test Date: 2025-08-30
Report Date: 2025-08-30
Sample Condition: Good
Method Reference: GA-OP-11

Executive Summary:
Sample 1A4000B0000EE49000004896 has **PASSED** pesticide testing.

Scope: Pesticide residues were solvent extracted and quantified using Liquid Chromatography Triple Quadrupole Mass Spectrometry & Gas Chromatography Triple Quadrupole Mass Spectrometry with external standard calibration. This testing was performed for compliance purposes.

Lab Comments:

Pesticide	Limits (ppm)			Result (ppm)
	Regulatory	LOD*	LOQ*	
Abamectin	0.100	0.0105	0.0190	<LOD
Acephate	0.020	0.0015	0.0049	<LOD
Acequinocyl	0.030	0.0122	0.0199	<LOD
Acetamiprid	0.100	0.0008	0.0048	<LOD
Aldicarb	1.000	0.0215	0.0307	<LOD
Allethrin	0.200	0.0099	0.0312	<LOD
Atrazine	0.025	0.0023	0.0094	<LOD
Azoxystrobin	0.020	0.0008	0.0049	<LOD
Benzovindiflupyr	0.020	0.0015	0.0047	<LOD
Bifenazate	0.020	0.0010	0.0050	<LOD
Bifenthrin	1.000	0.0409	0.0620	<LOD
Boscalid	0.020	0.0032	0.0099	<LOD
Buprofezin	0.020	0.0008	0.0048	<LOD
Carbaryl	0.050	0.0076	0.0326	<LOD
Carbofuran	0.020	0.0005	0.0050	<LOD
Chlorantraniliprole	0.020	0.0021	0.0046	<LOD
Chlorfenapyr**	0.050	0.0035	0.0097	<LOD
Chlorpyrifos	0.040	0.0142	0.0296	0.037
Clofentezine	0.020	0.0030	0.0095	<LOD
Clothianidin	0.050	0.0018	0.0097	<LOD
Coumaphos	0.020	0.0019	0.0100	<LOD
Cyantraniliprole	0.020	0.0021	0.0045	<LOD
Cyfluthrin**	0.200	0.0030	0.0078	<LOD
Cypermethrin**	0.300	0.0030	0.0105	<LOD
Cyprodinil	0.250	0.0045	0.0102	<LOD
Daminozide	0.100	0.0056	0.0313	<LOD
Deltamethrin	0.500	0.0082	0.0174	<LOD
Diazinon	0.020	0.0027	0.0052	<LOD
Dichlorvos**	0.100	0.0014	0.0062	<LOD
Dimethoate	0.020	0.0008	0.0051	<LOD
Dimethomorph	0.050	0.0017	0.0105	<LOD
Dinotefuran	0.100	0.0023	0.0195	<LOD
Diuron	0.125	0.0022	0.0073	<LOD

Pesticide	Limits (ppm)			Result (ppm)
	Regulatory	LOD*	LOQ*	
Dodemorph	0.050	0.0013	0.0051	<LOD
Endosulfan sulfate**	0.050	0.0016	0.0055	<LOD
Endosulfan-alpha**	0.200	0.0109	0.0347	<LOD
Endosulfan-beta**	0.050	0.0020	0.0054	<LOD
Ethoprophos	0.020	0.0051	0.0103	<LOD
Etofenprox	0.050	0.0022	0.0050	<LOD
Etoxazole	0.020	0.0019	0.0105	<LOD
Etridiazole**	0.030	0.0126	0.0199	<LOD
Fenhexamid	0.125	0.0053	0.0199	<LOD
Fenoxycarb	0.020	0.0026	0.0048	<LOD
Fenpyroximate	0.020	0.0011	0.0050	<LOD
Fensulfothion	0.020	0.0019	0.0049	<LOD
Fenthion**	0.020	0.0059	0.0082	<LOD
Fenvalerate**	0.100	0.0060	0.0211	<LOD
Fipronil	0.060	0.0021	0.0044	<LOD
Flonicamid	0.050	0.0129	0.0317	<LOD
Fludioxonil	0.020	0.0043	0.0101	<LOD
Fluopyram	0.020	0.0011	0.0049	<LOQ
Hexythiazox	0.010	0.0054	0.0043	<LOD
Imazalil	0.050	0.0074	0.0110	<LOD
Imidacloprid	0.020	0.0035	0.0097	<LOD
Iprodione	1.000	0.0246	0.0629	<LOD
Kinoprene**	0.500	0.0230	0.1268	<LOD
Kresoxim-methyl	0.020	0.0051	0.0098	<LOD
MGK-264**	0.050	0.0017	0.0060	<LOD
Malathion	0.020	0.0011	0.0050	<LOD
Metalaxyl	0.020	0.0023	0.0101	<LOD
Methiocarb	0.020	0.0013	0.0050	<LOD
Methomyl	0.050	0.0022	0.0046	<LOD
Methoprene	2.000	0.0107	0.0326	<LOD
Mevinphos	0.050	0.0019	0.0058	<LOD
Myclobutanil	0.020	0.0054	0.0100	<LOD
Naled	0.100	0.0024	0.0047	<LOD

Pesticide	Limits (ppm)			Result (ppm)
	Regulatory	LOD*	LOQ*	
Novaluron	0.050	0.0335	0.0317	<LOD
Oxamyl	3.000	0.0019	0.0047	<LOD
Paclobutrazol	0.020	0.0021	0.0049	<LOD
Parathion-methyl**	0.050	0.0013	0.0061	<LOD
Permethrins	0.500	0.0063	0.0097	<LOD
Phenothrin	0.050	0.0181	0.0343	<LOD
Phosmet	0.020	0.0013	0.0050	<LOD
Pirimicarb	0.020	0.0011	0.0051	<LOD
Prallethrin	0.050	0.0045	0.0098	<LOD
Propiconazole	0.100	0.0103	0.0321	<LOD
Propoxur	0.020	0.0014	0.0048	<LOD
Pyraclostrobin	0.020	0.0022	0.0048	<LOD
Pyridaben	0.050	0.0015	0.0049	<LOD
Pyriproxyfen	0.010	0.0012	0.0049	<LOD
Quintozene**	0.020	0.0011	0.0054	<LOD
Resmethrin	0.100	0.0047	0.0097	<LOD
Spinetoram	0.020	0.0012	0.0062	<LOD
Spinosad	0.100	0.0006	0.0027	<LOD
Spirodiclofen	0.250	0.0030	0.0096	<LOD
Spiromesifen	3.000	0.0041	0.0100	<LOD
Spirotetramat	0.020	0.0017	0.0102	<LOD
Spiroxamine	0.100	0.0010	0.0050	<LOD
Tebuconazole	0.050	0.0038	0.0099	<LOD
Tebufenozide	0.020	0.0024	0.0049	<LOD
Teflubenzuron	0.050	0.0245	0.0321	<LOD
Tetrachlorvinphos	0.020	0.0015	0.0046	<LOD
Tetramethrin	0.100	0.0061	0.0192	<LOD
Thiabendazole	0.020	0.0022	0.0096	<LOD
Thiacloprid	0.020	0.0007	0.0049	<LOD
Thiamethoxam	0.020	0.0015	0.0048	<LOD
Thiophanate-methyl	0.050	0.0028	0.0099	<LOD
Trifloxystrobin	0.020	0.0007	0.0050	<LOD
lambda-Cyhalothrin**	0.250	0.0598	0.1364	<LOD

*LOD = Limit of detection
LOQ = Limit of quantitation
<LOD = Sample result is below the LOD.
<LOQ = Sample result is above the LOD and below the LOQ.
>HLOQ = Sample result is above Higher LOQ.

**Sample result determined using GCMS. Otherwise LCMS was used.

2025-08-30
Easton Snouffer - Laboratory Analyst — Date

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Gobi Labs
Elemental Impurities Report

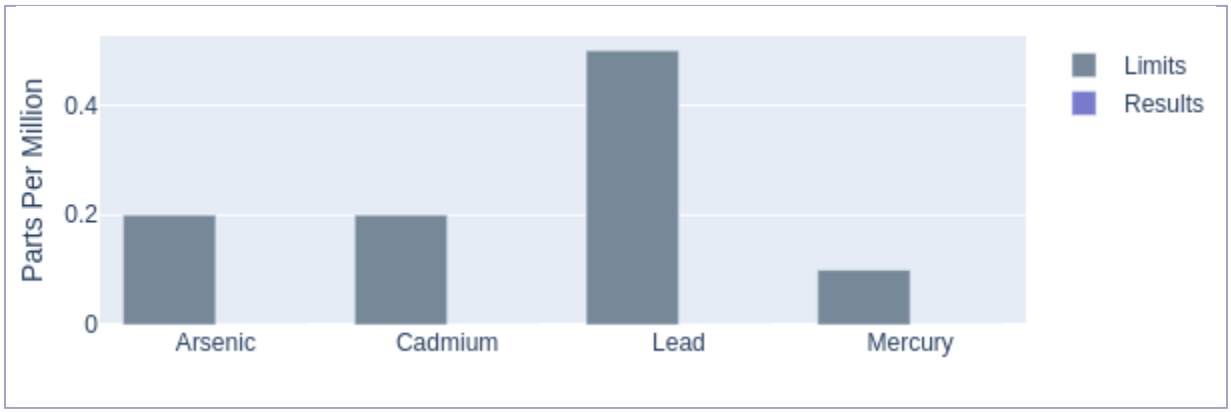
Manifest:	0011267311	**Test Performed:**	Elemental Impurities
METRC ID:	1A4000B0000EE49000004885	**Intended Use:**	Inhaled or Audited Product
Sample Name:	SG25-260514D	**Report No:**	MT-11267311-V1
Sample Type:	Softgels	**Receive Date:**	2025-08-18
		Test Date:	2025-08-19
		Report Date:	2025-08-20
		Sample Condition:	Good
		Method Reference:	GA-OP-17

Executive Summary: Sample 1A4000B0000EE49000004885 has **PASSED** elemental analysis testing.

Scope: Arsenic, Cadmium, Lead and Mercury were determined by an Inductively Coupled Plasma Mass Spectrometer (ICP-MS) using an in-house developed method. This testing was performed for compliance purposes.

Element	Regulatory Limits (ppm)			LOD (ppm)	LOQ (ppm)	Result (ppm)
	Inhaled	Topical	Edible			
Arsenic	0.2	3	1.5	0.036	0.108	<LOD
Cadmium	0.2	3	0.5	0.017	0.050	<LOD
Lead	0.5	10	1	0.008	0.023	<LOQ
Mercury	0.1	1	1.5	0.003	0.010	<LOD

LOD = Limit of detection
LOQ = Limit of quantitation
<LOD = Sample result is below the LOD.
<LOQ = Sample result is above the LOD and below the LOQ.
>HLOQ = Sample result is above Higher LOQ.



Lab Comments:

Derrick Vasquez, Lead Chemistry Analyst

2025-08-20
Date

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PJLA Testing
Accreditation #103051

Gobi Labs
Mycotoxin Analysis Report

Manifest:	0011267311	**Test Performed:**	Mycotoxin
METRC ID:	1A4000B0000EE49000004885	**Report No:**	R-11267311-V1
Sample Name:	SG25-260514D	**Receive Date:**	2025-08-18
Sample Type:	Softgels	**Test Date:**	2025-08-19
		Report Date:	2025-08-20
		Sample Condition:	Good
		Method Reference:	GA-OP-16

Scope: Ochratoxin and Total Aflatoxin were quantified using liquid chromatography coupled to multiple mass spectrometry (LC-MS/MS) equipped with electrospray ionization (ESI) in positive mode after sample extraction. Identification was based on the retention time of each compound and the product mass generated using single reaction monitoring (SRM). Quantitation was determined using external calibration. This testing was performed for compliance purposes.

Mycotoxin	Limits (ppb)			Result (ppb)
	Regulatory	LOD*	LOQ*	
Aflatoxin G2	5	0.46	4.61	<LOD
Aflatoxin G1	5	0.41	4.65	<LOD
Aflatoxin B2	5	0.39	4.63	<LOD
Aflatoxin B1	5	0.34	4.65	<LOD
Ochratoxin A	20	0.91	4.63	<LOD

*LOD = Limit of detection
LOQ = Limit of quantitation
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<LOQ = Sample result is above the LOD and below the LOQ.
>HLOQ = Sample result is above Higher LOQ.



Lab Comments:

Derrick Vasquez, Lead Chemistry Analyst

2025-08-20
Date

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PJLA Testing
Accreditation #103051

Microbiology Analysis

PCR AND PLATING

Analysis conducted by polymerase chain reaction (PCR) and fluorescence detection of microbiological contaminants.

Method: (GLB-TM-25) Bioburden Testing for STEC & Salmonella or (GLB-TM-37) Microbiological Detection of Pathogenic Aspergillus

MICROBIOLOGY TEST RESULTS (PCR) - 05/22/2026 **ND**

COMPOUND	RESULT
Salmonella spp.	ND
Shiga toxin-producing *Escherichia coli*	ND

Analysis conducted by 3M™ Petrifilm™ and plate counts of microbiological contaminants.

Method: (GLB-TM-24) Bioburden Testing for Total Yeast and Mold

MICROBIOLOGY TEST RESULTS (PLATING) - 05/22/2026 **ND**

COMPOUND	RESULT (cfu/g)
Coliforms	ND
Total Aerobic Bacteria	ND
Total Yeast and Mold	ND

NOTES
Sample unit mass provided by client.

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