JOY ORGANICS

CERTIFICATE OF ANALYSIS

PRODUCT NAME:	Joy Organics CBD Gummies for Sleep
PRODUCT STRENGTH:	30mg CBD, 5mg CBN, 3mg Melatonin / gummy
BATCH:	261026M
BEST BY DATE: HEMP	9/16/2028
EXTRACT LOT:	19H26002

Physical Atttributes

Test	Method	Specification	Results
Color	Joy Internal	Purple	PASS
Odor	Joy Internal	Sweet, berry	PASS
Appearance	Joy Internal	Purple gummies with sugar coating in child proof container	PASS
Primary Package Eval.	Joy Internal	Container clean and free of filth. Container caps tight and seals intact	PASS
Secondary Package Eval.	Joy Internal	Labeling Compliance Checked, 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 30 mg / gummy	**34mg**	PASS
Potency - D9-THC	HPLC-UV DAD	LOQ: 10 ppm (.001-0.3%)	**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 — 10/29/2026 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: <LOQ

Total THC (Δ^9-THC+0.877*THCa)

TOTAL CBD: 34.348 mg/unit

Total CBD (CBD+0.877*CBDa)

TOTAL CANNABINOIDS: 42.936 mg/unit

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

TOTAL CBG: 3.337 mg/unit

Total CBG (CBG+0.877*CBGa)

TOTAL THCV: ND

Total THCV (THCV+0.877*THCVa)

TOTAL CBC: ND

Total CBC (CBC+0.877*CBCa)

TOTAL CBDV: 0.073 mg/unit

Total CBDV (CBDV+0.877*CBDVa)

CANNABINOID TEST RESULTS - 10/16/2026

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
CBD	*0.004 / 0.011*	*±0.2980*	7.988	0.7988
CBN	*0.001 / 0.007*	*±0.0346*	1.204	0.1204
CBG	*0.002 / 0.006*	*±0.0376*	0.776	0.0776
CBDV	*0.002 / 0.012*	*±0.0007*	0.017	0.0017
Δ^9-THC	*0.002 / 0.014*	*N/A*	<LOQ	<LOQ
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
CBL	*0.003 / 0.010*	*N/A*	ND	ND
CBC	*0.003 / 0.010*	*N/A*	ND	ND
CBCa	*0.001 / 0.015*	*N/A*	ND	ND
SUM OF CANNABINOIDS			9.985 mg/g	0.9985%

Unit Mass: 4.3 grams per Unit / Serving Size: 4.3 grams per Serving

Δ^9-THC per Unit	<LOQ
Δ^9-THC per Serving	<LOQ
Total THC per Unit	<LOQ
Total THC per Serving	<LOQ
CBD per Unit	34.348 mg/unit
CBD per Serving	34.348 mg/serving
Total CBD per Unit	34.348 mg/unit
Total CBD per Serving	34.348 mg/serving
Sum of Cannabinoids per Unit	42.936 mg/unit
Sum of Cannabinoids per Serving	42.936 mg/serving
Total Cannabinoids per Unit	42.936 mg/unit
Total Cannabinoids per Serving	42.936 mg/serving

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Pesticide Analysis

Pesticide and plant growth regulator analysis utilizing high-performance liquid chromatography-mass spectrometry (HPLC-MS) or gas chromatography-mass spectrometry (GC-MS).

*GC-MS utilized where indicated.

Method: QSP 1212 - Analysis of Pesticides and Mycotoxins by LC-MS or QSP 1213 - Analysis of Pesticides by GC-MS

PESTICIDE TEST RESULTS - 10/17/2026 **ND**

COMPOUND	LOD/LOQ (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)
Abamectin	*0.032 / 0.097*	*N/A*	ND
Acephate	*0.006 / 0.018*	*N/A*	ND
Acequinocyl	*0.009 / 0.027*	*N/A*	ND
Acetamiprid	*0.016 / 0.049*	*N/A*	ND
Aldicarb	*0.030 / 0.090*	*N/A*	ND
Allethrin	*0.030 / 0.092*	*N/A*	ND
Atrazine	*0.006 / 0.019*	*N/A*	ND
Azadirachtin	*0.082 / 0.248*	*N/A*	ND
Azoxystrobin	*0.003 / 0.009*	*N/A*	ND
Benzovindiflupyr	*0.003 / 0.009*	*N/A*	ND
Bifenazate	*0.003 / 0.009*	*N/A*	ND
Bifenthrin	*0.021 / 0.064*	*N/A*	ND
Boscalid	*0.003 / 0.009*	*N/A*	ND
Buprofezin‡	*0.006 / 0.019*	*N/A*	ND
Carbaryl	*0.007 / 0.020*	*N/A*	ND
Carbofuran	*0.003 / 0.008*	*N/A*	ND
Chlorantraniliprole	*0.006 / 0.018*	*N/A*	ND
Chlorfenapyr*	*0.005 / 0.015*	*N/A*	ND
Chlorpyrifos	*0.013 / 0.039*	*N/A*	ND
Clofentezine	*0.003 / 0.009*	*N/A*	ND
Clothianidin	*0.008 / 0.025*	*N/A*	ND
Coumaphos	*0.003 / 0.010*	*N/A*	ND
Cyantraniliprole	*0.003 / 0.010*	*N/A*	ND
Cyfluthrin	*0.052 / 0.159*	*N/A*	ND
Cypermethrin	*0.051 / 0.153*	*N/A*	ND
Cyprodinil‡	*0.003 / 0.008*	*N/A*	ND
Daminozide	*0.026 / 0.077*	*N/A*	ND
Deltamethrin	*0.059 / 0.180*	*N/A*	ND
Diazinon	*0.006 / 0.017*	*N/A*	ND
Dichlorvos (DDVP)	*0.012 / 0.038*	*N/A*	ND
Dimethoate	*0.003 / 0.009*	*N/A*	ND
Dimethomorph	*0.016 / 0.050*	*N/A*	ND
Dinotefuran	*0.010 / 0.030*	*N/A*	ND
Diuron	*0.013 / 0.040*	*N/A*	ND
Dodemorph	*0.012 / 0.035*	*N/A*	ND
Endosulfan sulfate	*0.016 / 0.048*	*N/A*	ND
Endosulfan-α*	*0.004 / 0.014*	*N/A*	ND
Endosulfan-β*	*0.006 / 0.019*	*N/A*	ND
Ethoprophos	*0.003 / 0.009*	*N/A*	ND
Etofenprox	*0.014 / 0.042*	*N/A*	ND
Etoxazole	*0.007 / 0.020*	*N/A*	ND

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Pesticide Analysis *Continued*

PESTICIDE TEST RESULTS - 10/17/2026 *continued* **ND**

COMPOUND	LOD/LOQ (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)
Etridiazole*	*0.002 / 0.005*	*N/A*	ND
Fenhexamid	*0.003 / 0.008*	*N/A*	ND
Fenoxycarb	*0.003 / 0.010*	*N/A*	ND
Fenpyroximate	*0.007 / 0.020*	*N/A*	ND
Fensulfothion	*0.003 / 0.010*	*N/A*	ND
Fenthion	*0.003 / 0.010*	*N/A*	ND
Fenvalerate‡	*0.033 / 0.099*	*N/A*	ND
Fipronil	*0.003 / 0.010*	*N/A*	ND
Flonicamid	*0.007 / 0.022*	*N/A*	ND
Fludioxonil	*0.003 / 0.010*	*N/A*	ND
Fluopyram‡	*0.003 / 0.009*	*N/A*	ND
Hexythiazox	*0.003 / 0.010*	*N/A*	ND
Imazalil	*0.003 / 0.009*	*N/A*	ND
Imidacloprid	*0.003 / 0.010*	*N/A*	ND
Iprodione	*0.077 / 0.233*	*N/A*	ND
Kinoprene	*0.077 / 0.233*	*N/A*	ND
Kresoxim-methyl	*0.006 / 0.019*	*N/A*	ND
λ-Cyhalothrin	*0.068 / 0.206*	*N/A*	ND
Malathion	*0.003 / 0.009*	*N/A*	ND
Metalaxyl	*0.003 / 0.010*	*N/A*	ND
Methiocarb	*0.003 / 0.008*	*N/A*	ND
Methomyl	*0.008 / 0.025*	*N/A*	ND
Methoprene	*0.172 / 0.521*	*N/A*	ND
Mevinphos	*0.008 / 0.024*	*N/A*	ND
MGK-264	*0.015 / 0.047*	*N/A*	ND
Myclobutanil	*0.003 / 0.009*	*N/A*	ND
Naled	*0.021 / 0.064*	*N/A*	ND
Novaluron	*0.002 / 0.005*	*N/A*	ND
Oxamyl	*0.017 / 0.051*	*N/A*	ND
Paclobutrazol	*0.003 / 0.010*	*N/A*	ND
Parathion-methyl	*0.016 / 0.050*	*N/A*	ND
Pentachloronitro-benzene (Quintozene)*	*0.004 / 0.012*	*N/A*	ND
Permethrin	*0.056 / 0.168*	*N/A*	ND
Phenothrin	*0.016 / 0.047*	*N/A*	ND
Phosmet	*0.007 / 0.020*	*N/A*	ND
Piperonyl Butoxide	*0.010 / 0.029*	*N/A*	ND
Pirimicarb	*0.003 / 0.009*	*N/A*	ND
Prallethrin	*0.015 / 0.046*	*N/A*	ND
Propiconazole	*0.027 / 0.080*	*N/A*	ND
Propoxur	*0.003 / 0.008*	*N/A*	ND
Pyraclostrobin	*0.003 / 0.010*	*N/A*	ND

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Pesticide Analysis *Continued*

PESTICIDE TEST RESULTS - 10/17/2026 *continued* **ND**

COMPOUND	LOD/LOQ (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)
Pyrethrins	*0.016 / 0.049*	*N/A*	ND
Pyridaben	*0.005 / 0.017*	*N/A*	ND
Pyriproxyfen	*0.003 / 0.009*	*N/A*	ND
Resmethrin	*0.013 / 0.039*	*N/A*	ND
Spinetoram	*0.003 / 0.010*	*N/A*	ND
Spinosad	*0.003 / 0.010*	*N/A*	ND
Spirodiclofen	*0.031 / 0.093*	*N/A*	ND
Spiromesifen	*0.016 / 0.050*	*N/A*	ND
Spirotetramat	*0.003 / 0.010*	*N/A*	ND
Spiroxamine	*0.020 / 0.062*	*N/A*	ND
Tebuconazole	*0.003 / 0.010*	*N/A*	ND
Tebufenozide	*0.003 / 0.008*	*N/A*	ND
Teflubenzuron	*0.007 / 0.022*	*N/A*	ND
Tetrachlorvinphos	*0.003 / 0.008*	*N/A*	ND
Tetramethrin	*0.021 / 0.063*	*N/A*	ND
Thiabendazole	*0.006 / 0.020*	*N/A*	ND
Thiacloprid	*0.003 / 0.009*	*N/A*	ND
Thiamethoxam	*0.003 / 0.010*	*N/A*	ND
Thiophanate-methyl	*0.013 / 0.040*	*N/A*	ND
Trifloxystrobin	*0.003 / 0.009*	*N/A*	ND

Mycotoxin Analysis

Mycotoxin analysis utilizing high-performance liquid chromatography-mass spectrometry (HPLC-MS).

Method: QSP 1212 - Analysis of Pesticides and Mycotoxins by LC-MS

MYCOTOXIN TEST RESULTS - 10/17/2026 PASS

COMPOUND	LOD/LOQ (µg/kg)	ACTION LIMIT (µg/kg)	MEASUREMENT UNCERTAINTY (µg/kg)	RESULT (µg/kg)	RESULT
Aflatoxin B1	*1.6 / 5.0*	*5*	*N/A*	ND	PASS
Aflatoxin B2	*1.4 / 4.1*		*N/A*	ND	
Aflatoxin G1	*1.6 / 4.9*		*N/A*	ND	
Aflatoxin G2	*1.6 / 5.0*		*N/A*	ND	
Ochratoxin A	*1.6 / 5.0*	*5*	*N/A*	ND	PASS
Total Aflatoxin		*20*		ND	PASS

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Residual Solvents Analysis

Residual Solvent analysis utilizing gas chromatography-mass spectrometry (GC-MS).

Method: QSP 1204 - Analysis of Residual Solvents by GC-MS

Total Butanes = n-Butane + 2-Methylpropane (Isobutane)
Total Heptanes = 2,2-Dimethylpentane (Neoheptane) + 2,3-Dimethylpentane + 2,4-Dimethylpentane + 3,3-Dimethylpentane + 2,2,3-Trimethylbutane (Triptane) + 2-Methylhexane (Isoheptane) + 3-Methylhexane + 3-Ethylpentane + n-Heptane
Total Xylenes = 1,2-Dimethylbenzene (o-Xylene) + 1,3-Dimethylbenzene (m-Xylene) / 1,4-Dimethylbenzene (p-Xylene)

RESIDUAL SOLVENTS TEST RESULTS - 10/19/2026 **ND**

COMPOUND	LOD/LOQ (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)
Propane	*0.234 / 0.781*	*N/A*	ND
2-Methylpropane (Isobutane)	*0.052 / 0.173*	*N/A*	ND
n-Butane	*0.019 / 0.063*	*N/A*	ND
Total Butanes			ND
n-Pentane	*0.310 / 1.033*	*N/A*	ND
n-Hexane	*0.110 / 0.366*	*N/A*	ND
2,2-Dimethylpentane (Neoheptane)	*0.493 / 1.642*	*N/A*	ND
2,3-Dimethylpentane	*1.009 / 3.365*	*N/A*	ND
2,4-Dimethylpentane	*0.737 / 2.458*	*N/A*	ND
3,3-Dimethylpentane	*0.198 / 0.660*	*N/A*	ND
2,2,3-Trimethylbutane (Triptane)	*0.521 / 1.738*	*N/A*	ND
2-Methylhexane (Isoheptane)	*0.610 / 2.034*	*N/A*	ND
3-Methylhexane	*0.235 / 0.785*	*N/A*	ND
3-Ethylpentane	*0.304 / 1.012*	*N/A*	ND
n-Heptane	*13.12 / 43.72*	*N/A*	ND
Total Heptanes			ND
Benzene	*0.089 / 0.295*	*N/A*	ND
Toluene	*0.115 / 0.382*	*N/A*	ND
1,3-Dimethylbenzene (m-Xylene) / 1,4-Dimethylbenzene (p-Xylene)	*0.451 / 1.502*	*N/A*	ND
1,2-Dimethylbenzene (o-Xylene)	*0.387 / 1.289*	*N/A*	ND
Total Xylenes			ND
Methanol	*53.92 / 163.4*	*N/A*	ND
Ethanol	*8.984 / 27.23*	*N/A*	ND
2-Propanol (Isopropyl Alcohol)	*8.421 / 25.52*	*N/A*	ND
Acetone	*10.59 / 32.08*	*N/A*	ND
Ethyl Acetate	*1.123 / 3.745*	*N/A*	ND

Heavy Metals Analysis

Heavy metal analysis utilizing inductively coupled plasma-mass spectrometry (ICP-MS).

Method: QSP 1160 - Analysis of Heavy Metals by ICP-MS

HEAVY METALS TEST RESULTS - 10/15/2026 PASS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)	RESULT
Arsenic	*0.02 / 0.1*	*1.5*	*N/A*	ND	PASS
Cadmium	*0.02 / 0.05*	*0.5*	*N/A*	ND	PASS
Lead	*0.04 / 0.1*	*0.5*	*N/A*	ND	PASS
Mercury	*0.002 / 0.01*	*1.5*	*N/A*	ND	PASS

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Microbiology Analysis

PCR AND PLATING

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

Method: QSP 61517 - Analysis of Microbiological Contaminants

MICROBIOLOGY TEST RESULTS (PCR) - 10/19/2026 PASS

COMPOUND	ACTION LIMIT	RESULT	RESULT
***Salmonella* spp.**	*Not Detected in 25g*	**ND**	**PASS**
Shiga toxin-producing *Escherichia coli*	*Not Detected in 25g*	**ND**	**PASS**

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

Method: QSP 6794 - Plating with 3M™ Petrifilm™

MICROBIOLOGY TEST RESULTS (PLATING) - 10/19/2026 PASS

COMPOUND	ACTION LIMIT (cfu/g)	RESULT (cfu/g)	RESULT
Coliforms	*100*	**ND**	**PASS**
Total Aerobic Bacteria	*10000*	**ND**	**PASS**
Total Yeast and Mold	*1000*	**ND**	**PASS**

NOTES

Sample serving mass provided by client. Sample unit mass provided by client.

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