



JOY ORGANICS

CERTIFICATE OF ANALYSIS

PRODUCT NAME: Joy Organics Energy Drink
PRODUCT STRENGTH: 12.5 mg
FILL LOT NUMBER: 2017224
ENERGY DRINK LOT NUMBER*: [JP033020WSP1](#)

Click on the links to view third-party reports

Physical Attributes

Test	Method	Specification	Results
Color	SOP-100	White powder	PASS
Taste	SOP-100	Sweet, berry flavor	PASS
Appearance	SOP-100	in single-serving foil packaging - 5 to a box	PASS
Primary Package Eval.	SOP-132	Container clean and free of filth. Sealed Properly	PASS
Secondary Package Eval.	SOP-132	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	SOP-111	11.8-15.6 mg CBD LOQ**: 10 PPM† (0.001%)	14.7mg	PASS
Potency - D9-THC	SOP-111	None Detected LOQ: 10 PPM (0.001%)	ND	PASS
Compliant Pesticide Panel	SOP-111	WIP-100008 : Product specification for powders, Oregon Action limits apply	BELOW LOQ	PASS
Microbial - Stec E.Coli	SOP-111	Complies with USP 61/62	BELOW LOQ	PASS
Microbial - Salmonella	SOP-111	Complies with USP 61/62	BELOW LOQ	PASS
Microbial - Yeast/Mold	SOP-111	Complies with USP 61/62	BELOW LOQ	PASS
CA Compliant Heavy Metal Panel	SOP-111	Arsenic (As): ≤1.5 PPM Cadmium (Cd): ≤0.5 PPM Mercury (Hg): ≤1.0 PPM Lead (Pb): ≤0.5 PPM	BELOW LOQ	PASS

** Level of Quantitation, † Parts Per Million

Quality Certified by: *Darcie Moran*
Darcie Moran
Manager of Quality Assurance

06/26/2020

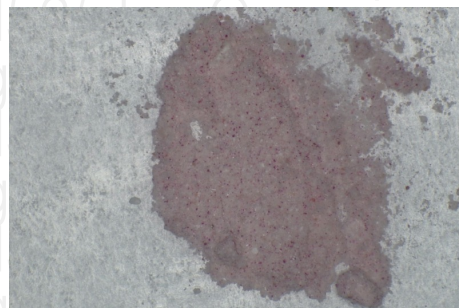
Date

certificate ID
0FH52total
cannabinoids
14.9mgper
3gterpenes NT
THC‡ ND
CBD‡ 14.7mg**This Product
Has Been
Tested and
Complies with
7USC1639o(1)****Stillwater
Laboratories**received **6/9/20 12:00 AM**
test ID
sample ID **0FH52**
order **7527**
sample wgt **3.0 g**
source ID

CAL infused

Description and Inspection

DESCRIPTION: sample (3.00g).



Potency	result	LOD	LOQ	error (95%CI k=2)	Terpenes	result	LOD	LOQ	error (95%CI k=2)
total cannabinoids	14.9mg	0.00	0.00	±0.27mg	total terpenes	NT			
total THC	ND	0.00	0.00	±0.00mg	linalool	NT			
total CBD	14.7mg	0.00	0.00	±0.26mg	β-myrcene	NT			
tetrahydrocannabinolic acid (THCa)	ND	0.00	0.00	±0.00mg	D-limonene	NT			
Δ9-tetrahydrocannabinol (Δ9 THC)	ND	<0.00	0.00	±0.00mg	α-pinene	NT			
Δ8-tetrahydrocannabinol (Δ8 THC)	ND	0.00	0.00	±0.00mg	β-pinene	NT			
tetrahydrocannabivarin (THCv)	ND	0.00	0.00	±0.00mg	ocimene	NT			
cannabidiolic acid (CBDA)	ND	<0.00	0.00	±0.00mg	terpinolene	NT			
cannabidiol (CBD)	14.7mg	0.00	0.00	±0.26mg	α-humulene	NT			
cannabidivarin (CBDv)	0.3mg	0.00	0.00	±0.01mg	β-caryophyllene	NT			
cannabigerolic acid (CBGA)	ND	<0.00	0.00	±0.00mg	α-bisabolol	NT			
cannabigerol (CBG)	ND	0.00	0.00	±0.00mg	camphene	NT			
cannabinol (CBN)	ND	<0.00	0.00	±0.00mg	Δ3-carene	NT			
cannabichromene (CBC)	ND	0.00	0.00	±0.00mg	caryophyllene oxide	NT			
‡ decarbed					para-cymene	NT			
					eucalyptol	NT			
					geraniol	NT			
					guaiaol	NT			
					isopulegol	NT			
					cis-nerolidol	NT			
					trans-nerolidol	NT			
					α-terpinene	NT			
					γ-terpinene	NT			

Mycotoxins

Microbial

FAIL: no failures
PASS: Ochratoxin A, Aflatoxin
B1B2G1G2, Aflatoxin B1, Aflatoxin
B2, Aflatoxin G1, Aflatoxin G2FAIL: no failures
PASS: E coli, Salmonella sp.,
molds

Pesticides

FAIL: no failures
PASS: Abamectin, Acephate, Acequinocyl, Acetamiprid, Aldicarb, Azoxystrobin,
Bifenazate, Bifenthrin, Boscalid, Carbaryl, Carbofuran, Chloanthraniliprole,
Chlorfenapyr, Chloromequat, Chlorpyrifos, Clofentezine, Coumaphos, Cyfluthrin,
Cypermethrin, Daminozide, Dichlorvos, Diazinon, Dimethoate, Ethoprop,
Ethoprop, Etoxazole, Fenoxycarb, Fenpyroximate, Fipronil, Flonicamid,
Fludioxonil, Hexythiazox, Imazalil, Imidacloprid, Malathion, Metalaxyl,
Methiocarb, Methomyl, Methyl parathion, Mevinphos, Myclobutanil, Naled,
Oxamyl, Paclobutrazol, Permethrin, Phosmet, Piperonylbutoxide, Prallethrin,
Propiconazole, Propoxur, Pyrethrin, Pyridaben, Spinetoram, Spinosad,
Spiromesifen, Spiromesifen, Spiromesifen, Spirotetramat, Spiroxamine,
Tebuconazole, Thiacloprid, Thiamethoxam, Trifloxystrobin

Residual Solvents

NOT TESTED

Metals

FAIL: no failures
PASS: Arsenic, Cadmium, Lead,
Mercury

Certified by:

Kyle Larson, MSc (Biology)
Deputy Director**Stillwater Laboratories Inc.**
MT License L0001, L00007
6073 US93N Suite 5
Olney MT 59927
406-881-2019

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ISO/IEC 17025:2017



Certificate #4961.01

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

Methods	SOP ID	equipment	Comments	Pesticides	result	limit	LOD	LOQ	error	pass/fail
potency	MSP-7.5.1.4	LC-2030C		Abamectin	ND	0.3 ppm	0.005	0.014	±0.014 ppm	P
terpenes	MSP-7.5.1.6	QP2020/HS20		Acephate	ND	5.0 ppm	0.005	0.015	±0.015 ppm	P
solvents	MSP-7.5.1.7	QP2020/HS20		Acequinocyl	ND	4.0 ppm	0.004	0.013	±0.013 ppm	P
pesticides	MSP-7.5.1.8	LCMS8060		Acetamiprid	ND	5.0 ppm	0.001	0.003	±0.003 ppm	P
mycotoxins	MSP-7.5.1.8	LCMS8060		Aldicarb	ND	0.0 ppm	0.001	0.004	±0.004 ppm	P
microbial	MSP-7.5.1.10	Hardy Diag		Azoxystrobin	ND	40.0 ppm	0.001	0.004	±0.004 ppm	P
metals	MSP-7.5.1.11	ICPMS2030		Bifenazate	ND	5.0 ppm	0.001	0.003	±0.003 ppm	P
				Bifenthrin	ND	0.5 ppm	0.001	0.002	±0.002 ppm	P
				Boscalid	ND	10.0 ppm	0.014	0.041	±0.041 ppm	P
Mycotoxins	result	limit	LOD LOQ error pass/fail	Capta	NT	5.0 ppm				NA
Ochratoxin A	ND	20 ppb	0.3 0.8 ±0.8 ppb	Carbaryl	ND	0.5 ppm	0.005	0.016	±0.016 ppm	P
Aflatoxin B1B2G1G2	ND	20 ppb	0.3 0.8 ±0.8 ppb	Carbofuran	ND	0.0 ppm	0.001	0.003	±0.003 ppm	P
Microbial	result	limit	LOD LOQ error pass/fail	Chloanthraniliprole	ND	40.0 ppm	0.013	0.039	±0.039 ppm	P
E coli	ND	0CFU	0.0 0.1 ±0.1CFU	Chlordane	NT	0.0 ppm				NA
Salmonella sp.	ND	0CFU	0.0 0.1 ±0.1CFU	Chlorfenapyr	ND	0.0 ppm	0.003	0.010	±0.010 ppm	P
molds	ND	10000CFU	1.8 5.3 ±5.3CFU	Chlormequat	ND	0.0 ppm	0.005	0.015	±0.015 ppm	P
Metals	result	limit	LOD LOQ error pass/fail	Chlorpyrifos	ND	0.0 ppm	0.027	0.081	±0.081 ppm	P
Arsenic	ND	1500 ppb	0.1 0.3 ±0.3 ppb	Clofentezine	ND	0.5 ppm	0.005	0.015	±0.015 ppm	P
Cadmium	ND	500 ppb	0.1 0.4 ±0.4 ppb	Coumaphos	ND	0.0 ppm	0.003	0.010	±0.010 ppm	P
Lead	ND	500 ppb	0.1 0.2 ±0.2 ppb	Cyfluthrin	ND	1.0 ppm	0.005	0.015	±0.015 ppm	P
Mercury	ND	3000 ppb	0.1 0.4 ±0.4 ppb	Cypermethrin	ND	1.0 ppm	0.003	0.010	±0.010 ppm	P
Residual Solvents	result	limit	LOD LOQ error pass/fail	Daminozide	ND	0.0 ppm	0.018	0.055	±0.055 ppm	P
Dichloroethane	NT	0 ppm		Dichlorvos	ND	0.0 ppm	0.009	0.028	±0.028 ppm	P
Acetone	NT	5000 ppm		Diazinon	ND	0.2 ppm	0.001	0.002	±0.002 ppm	P
Acetonitrile	NT	410 ppm		Dimethoate	ND	0.0 ppm	0.001	0.004	±0.004 ppm	P
Benzene	NT	0 ppm		Dimethomorph	NT	20.0 ppm				NA
Butane	NT	5000 ppm		Ethoprop	ND	0.0 ppm	0.002	0.005	±0.005 ppm	P
Chloroform	NT	0 ppm		Ethoprop	ND	0.0 ppm	0.002	0.005	±0.005 ppm	P
Cyclohexane	NT	0 ppm		Etoxazole	ND	1.5 ppm	0.002	0.007	±0.007 ppm	P
Ethanol	NT	5000 ppm		Fenhexamid	NT	10.0 ppm				NA
Ethyl acetate	NT	5000 ppm		Fenoxycarb	ND	0.0 ppm	0.002	0.007	±0.007 ppm	P
Ethyl ether	NT	5000 ppm		Fenpyroximate	ND	2.0 ppm	0.001	0.002	±0.002 ppm	P
Ethylene oxide	NT	0 ppm		Fipronil	ND	0.0 ppm	0.005	0.015	±0.015 ppm	P
Heptane	NT	5000 ppm		Flonicamid	ND	2.0 ppm	0.065	0.196	±0.196 ppm	P
Hexane	NT	290 ppm		Fludioxonil	ND	30.0 ppm	0.004	0.013	±0.013 ppm	P
Isopropyl alcohol	NT	5000 ppm		Hexythiazox	ND	2.0 ppm	0.006	0.019	±0.019 ppm	P
Methanol	NT	3000 ppm		Imazalil	ND	0.0 ppm	0.004	0.013	±0.013 ppm	P
Methylene chloride	NT	0 ppm		Imidacloprid	ND	3.0 ppm	0.001	0.002	±0.002 ppm	P
Pentane	NT	5000 ppm		KresoxymMethyl	NT	1.0 ppm				NA
Propane	NT	5000 ppm		Malathion	ND	5.0 ppm	0.003	0.010	±0.010 ppm	P
Toluene	NT	890 ppm		Metalaxyl	ND	15.0 ppm	0.005	0.015	±0.015 ppm	P
Trichloroethylene	NT	0 ppm		Methiocarb	ND	0.0 ppm	0.002	0.007	±0.007 ppm	P
Xylenes	NT	2170 ppm		Methomyl	ND	0.1 ppm	0.004	0.012	±0.012 ppm	P
				Methyl parathion	ND	0.0 ppm	0.001	0.002	±0.002 ppm	P
				Mevinphos	ND	0.0 ppm	0.003	0.010	±0.010 ppm	P
				Myclobutanil	ND	9.0 ppm	0.001	0.002	±0.002 ppm	P
				Naled	ND	0.5 ppm	0.003	0.010	±0.010 ppm	P
				Oxamyl	ND	0.2 ppm	0.001	0.004	±0.004 ppm	P
				Paclobutrazol	ND	0.0 ppm	0.002	0.005	±0.005 ppm	P
				PCNB	NT	0.2 ppm				NA
				Permethrin	ND	20.0 ppm	0.007	0.020	±0.020 ppm	P
				Phosmet	ND	0.2 ppm	0.002	0.006	±0.006 ppm	P
				Piperonylbutoxide	ND	8.0 ppm	0.007	0.020	±0.020 ppm	P
				Prallethrin	ND	0.4 ppm	0.002	0.007	±0.007 ppm	P
				Propiconazole	ND	20.0 ppm	0.002	0.007	±0.007 ppm	P
				Propoxur	ND	0.0 ppm	0.004	0.011	±0.011 ppm	P
				Pyrethrin	ND	1.0 ppm	0.002	0.005	±0.005 ppm	P
				Pyridaben	ND	3.0 ppm	0.001	0.002	±0.002 ppm	P
				Spinetoram	ND	3.0 ppm	0.002	0.007	±0.007 ppm	P
				Spinosad	ND	3.0 ppm	0.004	0.013	±0.013 ppm	P
				Spiromesifen	ND	12.0 ppm	0.002	0.006	±0.006 ppm	P
				Spiromesifen	ND	12.0 ppm	0.002	0.006	±0.006 ppm	P
				Spiromesifen	ND	12.0 ppm	0.002	0.006	±0.006 ppm	P
				Spirotetramat	ND	13.0 ppm	0.002	0.005	±0.005 ppm	P
				Spiroxamine	ND	0.0 ppm	0.001	0.002	±0.002 ppm	P
				Tebuconazole	ND	2.0 ppm	0.003	0.010	±0.010 ppm	P
				Thiacloprid	ND	0.1 ppm	0.001	0.002	±0.002 ppm	P
				Thiamethoxam	ND	4.5 ppm	0.002	0.006	±0.006 ppm	P
				Trifloxystrobin	ND	30.0 ppm	0.001	0.004	±0.004 ppm	P

• All testing was completed onsite at 6073 US93N, Olney MT ** Potency (cannabinoid concentration) is calculated from the equation: [cannabinoid] = [cannabinoid]_{HPLC} x volume_{dilution}/m_{dry}. Terpene concentration is calculated from the equation: [terpene] = (terpene mass)_{GCMS} / m_{dry}. *** Decarboxyted cannabinoid concentration is calculated from the equation XXX_{total} = 0.877 x XXX_a + XXX **** 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 $s_g^2 = \sum (\partial f / \partial i)^2 s_i^2$ where i is the contributor to error. The 95% confidence range is calculated from the equation: (concentration) ± t_{CL90} x s_g. Sampling error is not considered in error calculations. ND = not detected (< LOD), NT = not tested, P = pass, F = fail, NL = no limit, NA = not applicable.

Certified by:



Kyle Larson, MSc (Biology)

Deputy Director

Stillwater Laboratories Inc.
MT License L0001, L0007
6073 US93N Suite 5
Olney MT 59927
406-881-2019

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