# JOYORGANICS

# **CERTIFICATE OF ANALYSIS**

PRODUCT NAME:
PRODUCT STRENGTH:
BATCH:
BEST BY DATE:
EXTRACT LOT:

Joy Organics Strawberry Lemonade Gummies - Organic + Koshe	r Certified
25mg CBD / gummy	
220802A	
5/03/2024 & 6/16/2024	
637	

#### Physical Atttributes

Test	Method	Specification	Results
Color	Joy Internal	Medium Pink	PASS
Odor	Joy Internal	Sweet, strawberry, lemon	PASS
Appearance	Joy Internal	Medium pink 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 10 mg / gummy	28.809mg	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
<b>Microbial</b> Escherichia coli (STEC)	PCR	Complies with CDPHE 6 CCR 1010-21 - LOQ 1 CFU/25 gram	Absent	PASS
<b>Microbial</b> Salmonella	PCR	Complies with CDPHE 6 CCR 1010-21 - LOQ 1 CFU/25 gram	Absent	PASS
<b>Microbial</b> Yeast and Mold	Culture Plating	Complies with CDPHE 6 CCR 1010-21 - LOQ 10^2 CFU/gram	Below LOQ	PASS
<b>Microbial</b> 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
<b>Residual Solvents</b>	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

2nd ( 6

Quality Certified

Name

9/30/2022

Date



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# **Cannabinoids - Colorado**

#### Compliance

Test ID: T000204001 Methods: TM14 (HPLC-DAD): Potency - Standard

Cannabinoid Analysis	LOD (%)	LOQ (%)	Result (%)	<b>Result</b> (mg/g)	Notes
Cannabichromene (CBC)	0.007	0.022	ND	ND	Amendment to
Cannabichromenic Acid (CBCA)	0.007	0.020	ND	ND	T000204001 issued
Cannabidiol (CBD)	0.017	0.056	0.873	8.73	05May2022 to
Cannabidiolic Acid (CBDA)	0.017	0.057	ND	ND	correct batch ID.
Cannabidivarin (CBDV)	0.004	0.013	<loq< td=""><td>0.04</td><td></td></loq<>	0.04	
Cannabidivarinic Acid (CBDVA)	0.007	0.024	ND	ND	
Cannabigerol (CBG)	0.004	0.012	0.095	0.95	
Cannabigerolic Acid (CBGA)	0.017	0.052	ND	ND	
Cannabinol (CBN)	0.005	0.016	ND	ND	
Cannabinolic Acid (CBNA)	0.012	0.035	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.020	0.062	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.018	0.056	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.016	0.050	ND	ND	
Tetrahydrocannabivarin (THCV)	0.004	0.011	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.014	0.044	ND	ND	
Total Cannabinoids			0.972	9.72	
Total Potential THC			ND	ND	
Total Potential CBD			0.873	8.73	

#### **Final Approval**

Somenthe Smoll 19May2022 02:25:00 PM MDT PREPARED BY / DATE

Sam Smith

Ryan Weems 19May2022 02:28:00 PM MDT



# CERTIFICATE OF ANALYSIS

## 25mg BS Strawberry Lemonade (organic)

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#### **Pesticides**

Methods: TM17

Test ID: T000204002

(LC-QQ LC MS/MS)	<b>Dynamic Range</b> (ppb)	Result (ppb)		<b>Dynamic Range</b> (ppb)	<b>Result</b> (ppb
Abamectin	262 - 2803	ND	Malathion	295 - 2716	ND
Acephate	40 - 2774	ND	Metalaxyl	44 - 2747	ND
Acetamiprid	40 - 2750	ND	Methiocarb	42 - 2784	ND
Azoxystrobin	46 - 2733	ND	Methomyl	40 - 2754	ND
Bifenazate	44 - 2768	ND	MGK 264 1	172 - 1642	ND
Boscalid	49 - 2825	ND	MGK 264 2	116 - 1125	ND
Carbaryl	42 - 2730	ND	Myclobutanil	48 - 2839	ND
Carbofuran	44 - 2708	ND	Naled	49 - 2767	ND
Chlorantraniliprole	50 - 2794	ND	Oxamyl	40 - 2763	ND
Chlorpyrifos	42 - 2806	ND	Paclobutrazol	42 - 2729	ND
Clofentezine	280 - 2751	ND	Permethrin	289 - 2752	ND
Diazinon	295 - 2773	ND	Phosmet	46 - 2774	ND
Dichlorvos	280 - 2747	ND	Prophos	288 - 2780	ND
Dimethoate	42 - 2738	ND	Propoxur	44 - 2720	ND
E-Fenpyroximate	290 - 2748	ND	Pyridaben	275 - 2783	ND
Etofenprox	43 - 2756	ND	Spinosad A	36 - 2251	ND
Etoxazole	288 - 2744	ND	Spinosad D	48 - 510	ND
Fenoxycarb	43 - 2750	ND	Spiromesifen	267 - 2787	ND
Fipronil	39 - 2701	ND	Spirotetramat	292 - 2679	ND
Flonicamid	49 - 2737	ND	Spiroxamine 1	19 - 1198	ND
Fludioxonil	294 - 2770	ND	Spiroxamine 2	24 - 1555	ND
Hexythiazox	45 - 2754	ND	Tebuconazole	291 - 2779	ND
Imazalil	289 - 2784	ND	Thiacloprid	41 - 2746	ND
Imidacloprid	44 - 2763	ND	Thiamethoxam	42 - 2757	ND
Kresoxim-methyl	56 - 2820	ND	Trifloxystrobin	44 - 2738	ND

#### **Final Approval**

Ryan Weems 19May2022 02:12:00 PM MDT Sam Smith

Samantha Smith 19May2022 02:25:00 PM MDT

PREPARED BY / DATE



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### Microbial Contaminants -Colorado Compliance

Test ID: T000204003

Methods: TM25 (qPCR) TM24, TM26,

TM27 (Culture Plating): Microbial (Colorado Panel)	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10 <sup>0</sup> CFU/25g	NA	Absent	Free from visual mold, mildew, and foreign matter Amendment to
Salmonella	TM25: PCR	10 <sup>0</sup> CFU/25g	NA	Absent	report T000204003 for batch ID
Total Yeast and Mold*	TM24: Culture Plating	10 <sup>1</sup> CFU/g	1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup>	None Detected	correction. SCH 19May2022
Total Aerobic Count*	TM26: Culture Plating	10 <sup>2</sup> CFU/g	1.0x10 <sup>3</sup> - 1.5x10 <sup>5</sup>	None Detected	•
Total Coliforms*	TM27: Culture Plating	10 <sup>1</sup> CFU/g	1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup>	None Detected	•

#### **Final Approval**

Breeffing PREPARED BY / DATE

Sarah Henning 19May2022 03:24:00 PM MDT

Carly Baden

APPROVED BY / DATE

Carly Bader 19May2022 03:51:00 PM MDT



Definitions

https://results.botanacor.com/api/v1/coas/uuid/50c6d8c0-075c-469c-8b29-630d51dd8ca5

LOD = Limit of Detection, ULOQ = Upper Limit of Quantitation, LLOQ = Lower Limit of Quantitation, PPB = Parts per Billion, % = % (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)). Fail equates to a concentration level of Delta 9-THC, on a dry weight basis, higher than 0.3 percent + or – the measurement uncertainty. Total Potential THC is calculated by dynamic range of the method) during decarboxylation step. Total THC = THC + (THCa \*(0.877)). ALOQ = Above Limit of Quantitation (defined by dynamic range of the method), CFU/g = Colony Forming Units per Gram. 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 CFU, 10^3 = 1,000 CFU, 10^4 = 10,000 CFU.

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. Some tests listed on this COA may not be within our scope of A2LA accreditation. Please visit A2LA for more details.



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### Heavy Metals -Colorado Compliance

Test ID: T000204004 Methods: TM19 (ICP-MS): Heavy		<b>5</b>	
Metals	<b>Dynamic Range</b> (ppm)	<b>Result</b> (ppm)	Notes
Arsenic	0.05 - 4.67	ND	Amendment to certificate
Cadmium	0.05 - 4.82	ND	T000204004 issued on 09May2022, batch ID udpated.
Mercury	0.05 - 4.54	ND	
Lead	0.03 - 3.04	ND	

#### **Final Approval**



Ryan Weems 19May2022 01:54:00 PM MDT

Samanthe Smil	Sam Smith 19May2022 02:17:00 PM MDT
APPROVED BY / DATE	

PREPARED BY / DATE



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# Mycotoxins - Colorado

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Test ID	· TO	າດວຸດ	4006

Methods: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins	<b>Dynamic Range</b> (ppb)	<b>Result</b> (ppb)	Notes
Ochratoxin A	3.25 - 127.17	ND	Amendment to T000204006 issued
	5.25 127.17		11May2022 to correct batch ID.
Aflatoxin B1	1.36 - 32.94	ND	N/A
Aflatoxin B2	1.49 - 32.94	ND	
Aflatoxin G1	1.46 - 32.55	ND	
Aflatoxin G2	1.59 - 32.61	ND	
Total Aflatoxins (B1, B2, G1, ar	nd G2)	ND	

#### **Final Approval**

Sam Smith Somenthe Smith 19May2022 11:27:00 AM MDT

Ryan Weems 19May2022 11:42:00 AM MDT

PREPARED BY / DATE



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#### Residual Solvents -Colorado Compliance

Test ID: T000204005			
Methods: TM04 (GC-MS): Residual Solvents	Dynamic Range (ppm)	<b>Result</b> (ppm)	Notes
Propane	92 - 1841	ND	Amendment to certificate
Butanes (lsobutane, n-Butane)	139 - 2778	ND	T000204005 issued on 09May2022, batch ID updated.
Methanol	57 - 1143	ND	
Pentane	79 - 1579	ND	
Ethanol	80 - 1603	>1603	
Acetone	89 - 1785	ND	
lsopropyl Alcohol	93 - 1860	ND	
Hexane	5 - 110	ND	
Ethyl Acetate	92 - 1848	ND	
Benzene	0.2 - 3.8	ND	
Heptanes	93 - 1855	ND	
Toluene	18 - 358	ND	
Xylenes (m,p,o-Xylenes)	121 - 2414	ND	

#### **Final Approval**



Ryan Weems 19May2022 01:30:00 PM MDT Sam Smith 19May2022 02:29:00 PM MDT

PREPARED BY / DATE