

PRODUCT NAME: Joy Organics Strawberry Lemonade Gummies - Organic + Kosher Certified

PRODUCT STRENGTH: 25mg CBD / gummy

BATCH: 220517A **BEST BY DATE:** 5/17/2024 **EXTRACT LOT:** 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
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

Kristen Me Quality Certified -

5/20/2022

Date



25mg BS Strawberry Lemonade (organic)

Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	Page 5 of 6
637	Various	Concentrate	
Reported:	Started:	Received:	
19May2022	10May2022	05May2022	

Cannabinoids - Colorado Compliance

Test ID: T000204001

Methods: TM14 (HPLC-DAD): Potency - Standard

Cannabinoid Analysis	LOD (%)	LOQ (%)	Result (%)	Result (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

Sam Smith Sawantha Smol 19May2022 02:25:00 PM MDT

PREPARED BY / DATE

APPROVED BY / DATE

Ryan Weems 19May2022 02:28:00 PM MDT



25mg BS Strawberry Lemonade (organic)

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Pesticides

Test ID: T000204002 Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)
Abamectin	262 - 2803	ND
Acephate	40 - 2774	ND
Acetamiprid	40 - 2750	ND
Azoxystrobin	46 - 2733	ND
Bifenazate	44 - 2768	ND
Boscalid	49 - 2825	ND
Carbaryl	42 - 2730	ND
Carbofuran	44 - 2708	ND
Chlorantraniliprole	50 - 2794	ND
Chlorpyrifos	42 - 2806	ND
Clofentezine	280 - 2751	ND
Diazinon	295 - 2773	ND
Dichlorvos	280 - 2747	ND
Dimethoate	42 - 2738	ND
E-Fenpyroximate	290 - 2748	ND
Etofenprox	43 - 2756	ND
Etoxazole	288 - 2744	ND
Fenoxycarb	43 - 2750	ND
Fipronil	39 - 2701	ND
Flonicamid	49 - 2737	ND
Fludioxonil	294 - 2770	ND
Hexythiazox	45 - 2754	ND
Imazalil	289 - 2784	ND
Imidacloprid	44 - 2763	ND
Kresoxim-methyl	56 - 2820	ND

	Dynamic Range (ppb)	Result (ppb)
Malathion	295 - 2716	ND
Metalaxyl	44 - 2747	ND
Methiocarb	42 - 2784	ND
Methomyl	40 - 2754	ND
MGK 264 1	172 - 1642	ND
MGK 264 2	116 - 1125	ND
Myclobutanil	48 - 2839	ND
Naled	49 - 2767	ND
Oxamyl	40 - 2763	ND
Paclobutrazol	42 - 2729	ND
Permethrin	289 - 2752	ND
Phosmet	46 - 2774	ND
Prophos	288 - 2780	ND
Propoxur	44 - 2720	ND
Pyridaben	275 - 2783	ND
Spinosad A	36 - 2251	ND
Spinosad D	48 - 510	ND
Spiromesifen	267 - 2787	ND
Spirotetramat	292 - 2679	ND
Spiroxamine 1	19 - 1198	ND
Spiroxamine 2	24 - 1555	ND
Tebuconazole	291 - 2779	ND
Thiacloprid	41 - 2746	ND
Thiamethoxam	42 - 2757	ND
Trifloxystrobin	44 - 2738	ND

Final Approval

PREPARED BY / DATE

Ryan Weems 19May2022 02:12:00 PM MDT

Samantha Smid 19May2022 02:25:00 PM MDT

Sam Smith

APPROVED BY / DATE



25mg BS Strawberry Lemonade (organic)

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Microbial Contaminants -Colorado Compliance

Test ID: T000204003

Methods: TM25 (qPCR) TM24, TM26,

TM27 (Culture Plating): Microbial			Quantitation	
(Colorado Panel)	Method	LOD	Range	Result
STEC	TM25: PCR	10 ⁰ CFU/25g	NA	Absent
Salmonella	TM25: PCR	10 ⁰ CFU/25g	NA	Absent
Total Yeast and Mold*	TM24: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	None Detected
Total Aerobic Count*	TM26: Culture Plating	10 ² CFU/g	1.0x10 ³ - 1.5x10 ⁵	None Detected
Total Coliforms*	TM27: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	None Detected

Notes

Free from visual mold, mildew, and foreign matter Amendment to report T000204003 for batch ID correction. SCH 19May2022

Final Approval

Grestino

Sarah Henning 19May2022 03:24:00 PM MDT

CarlyBade

19May2022 03:51:00 PM MDT

APPROVED BY / DATE

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

Definitions

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 using the following formulas to take into account the loss of a carboxyl group 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, 10^5 = 100,000 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

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 4.67	ND	Amendment t
Cadmium	0.05 - 4.82	ND	T000204004 is batch ID udpa
Mercury	0.05 - 4.54	ND	
Lead	0.03 - 3.04	ND	

to certificate issued on 09May2022, ated.

Final Approval

Ryan Weems 19May2022 01:54:00 PM MDT

Sam Smith Samantha Smot 19May2022 02:17:00 PM MDT



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637	Various	Concentrate	
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Mycotoxins - Colorado Compliance

Test ID: T000204006

Methods: TM18 (UHPLC-QQQ

LCMS/MS): Mycotoxins	Dynamic Range (ppb)	Result (ppb)	1
Ochratoxin A	3.25 - 127.17	ND	,
Aflatoxin B1	1.36 - 32.94	ND	
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, and G2)		ND	

Notes Amendment to T000204006 issued 11May2022 to correct batch ID.

N/A

Final Approval

Samantha Small 19May2022 11:27:00 AM MDT

Sam Smith

PREPARED BY / DATE

19May2022 11:42:00 AM MDT



25mg BS Strawberry Lemonade (organic)

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637	Various	Concentrate	
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Residual Solvents -Colorado Compliance

Test ID: T000204005

Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	92 - 1841	ND	Amendment to certificate
Butanes (Isobutane, 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	
Isopropyl 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

PREPARED BY / DATE

Ryan Weems 19May2022

APPROVED BY / DATE

Sam Smith
19May2022
02:29:00 PM MDT