JOY ORGANICS

CERTIFICATE OF ANALYSIS

PRODUCT NAME:	Beach Buzz Gummies
PRODUCT STRENGTH:	25mg CBD + 5mg THC / gummy
BATCH:	231024A, 231227A, 240109B
BEST BY DATE: HEMP	6/2025
EXTRACT LOT:	JYOR3216441

Physical Atttributes

Test	Method	Specification	Results
Color	Joy Internal	Multicolored	PASS
Odor	Joy Internal	Sweet	PASS
Appearance	Joy Internal	Sugar Coated	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 25mg / gummy	**30mg**	PASS
Potency - D9-THC	HPLC-UV DAD	LOQ: <0.03% (full spectrum) mg/gummy	**6.8mg**	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 Manufacture*
10^2=100 CFU
10^3=1,000 CFU

Quality Certified

11/1/2023

Name
Title

Date

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

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Official Compliance: Colorado

CERTIFICATE OF ANALYSIS

25mg CBD: 5mg THC Gummy - Orange

Batch ID or Lot Number: **01.3.7?* 01.301C* 01.5/7B* 01.603?**	Test: **Potency**	Reported: **16Mar2023**	USDA License: N/A
Matrix: Concentrate	Test ID: T000238519	Started: 16Mar2023	Sampler ID: N/A
	Method(s): TM14 (HPLC-DAD): Potency – Standard Cannabinoid Analysis	Received: 14Mar2023	Status: Active

Cannabinoids

	LOD (%)	**LOQ** (%)	**Result** (%)	**Result** (mg/g)	**Notes**
Cannabichromene (CBC)	0.006	0.020	ND	ND	
Cannabichromenic Acid (CBCA)	0.006	0.018	ND	ND	
Cannabidiol (CBD)	0.019	0.054	0.769	7.69	
Cannabidiolic Acid (CBDA)	0.019	0.055	ND	ND	
Cannabidivarin (CBDV)	0.004	0.013	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.008	0.023	ND	ND	
Cannabigerol (CBG)	0.004	0.011	ND	ND	
Cannabigerolic Acid (CBGA)	0.015	0.048	ND	ND	
Cannabinol (CBN)	0.005	0.015	ND	ND	
Cannabinolic Acid (CBNA)	0.010	0.033	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.018	0.057	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.016	0.052	0.171	1.71	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.014	0.046	ND	ND	
Tetrahydrocannabivarin (THCV)	0.003	0.010	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.013	0.040	ND	ND	
Total Cannabinoids			**0.940**	**9.40**	
Total Potential THC			0.171	1.71	
Total Potential CBD			0.769	7.69	

Final Approval

Sam Smith
16Mar2023
01:17:00 PM MDT
PREPARED BY / DATE

Karen Winternheimer
16Mar2023
01:25:00 PM MDT
APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/858905d5-e976-4944-adc3-a3a22c20a897

Definitions
% = % (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)).

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CERTIFICATE OF ANALYSIS

25mg CBD: 5mgTHC Gummy- Pineapple

Batch ID or Lot Number: **230509A, 230523E, 230719D, 230825A**	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 3 of 5
Reported: **09Mar2023**	Started: 08Mar2023	Received: 08Mar2023	

Cannabinoids - Colorado Compliance

Test ID: T000237852
Methods: TM14 (HPLC-DAD): Potency – Standard

Cannabinoid Analysis	**LOD** (%)	**LOQ** (%)	**Result** (%)	**Result** (mg/g)	**Notes**
Cannabichromene (CBC)	0.008	0.024	ND	ND	
Cannabichromenic Acid (CBCA)	0.007	0.022	ND	ND	
Cannabidiol (CBD)	0.024	0.065	0.751	7.51	
Cannabidiolic Acid (CBDA)	0.025	0.066	ND	ND	
Cannabidivarin (CBDV)	0.006	0.015	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.010	0.028	ND	ND	
Cannabigerol (CBG)	0.005	0.013	ND	ND	
Cannabigerolic Acid (CBGA)	0.019	0.056	ND	ND	
Cannabinol (CBN)	0.006	0.017	ND	ND	
Cannabinolic Acid (CBNA)	0.013	0.038	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.023	0.067	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.021	0.061	0.165	1.65	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.019	0.054	ND	ND	
Tetrahydrocannabivarin (THCV)	0.004	0.012	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.016	0.047	ND	ND	
Total Cannabinoids			**0.916**	**9.16**	
Total Potential THC			0.165	1.65	
Total Potential CBD			0.751	7.51	

Final Approval

Samantha Smith
Sam Smith
13Mar2023
01:26:00 PM MDT
PREPARED BY / DATE

K Winternheimer
Karen Winternheimer
13Mar2023
01:30:00 PM MDT
APPROVED BY / DATE

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CERTIFICATE OF ANALYSIS

25mg CBD: 5mgTHC Gummy- Blueberry Lemonade

Batch ID or Lot Number: **230509A, 230523E, 230719D, 230825A**	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 2 of 5
Reported: **17Mar2023**	Started: 15Mar2023	Received: 15Mar2023	

Cannabinoids - Colorado Compliance

Test ID: T000238052
Methods: TM14 (HPLC-DAD): Potency – Standard

Cannabinoid Analysis	**LOD** (%)	**LOQ** (%)	**Result** (%)	**Result** (mg/g)	**Notes**
Cannabichromene (CBC)	0.007	0.022	ND	ND	
Cannabichromenic Acid (CBCA)	0.006	0.020	ND	ND	
Cannabidiol (CBD)	0.020	0.058	0.810	8.10	
Cannabidiolic Acid (CBDA)	0.021	0.060	ND	ND	
Cannabidivarin (CBDV)	0.005	0.014	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.009	0.025	ND	ND	
Cannabigerol (CBG)	0.004	0.012	ND	ND	
Cannabigerolic Acid (CBGA)	0.016	0.052	ND	ND	
Cannabinol (CBN)	0.005	0.016	ND	ND	
Cannabinolic Acid (CBNA)	0.011	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	0.174	1.74	
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			**0.984**	**9.84**	
Total Potential THC			0.174	1.74	
Total Potential CBD			0.810	8.10	

Final Approval

Karen Winternheimer
17Mar2023
12:00:00 PM MDT
PREPARED BY / DATE

Sam Smith
17Mar2023
12:02:00 PM MDT
APPROVED BY / DATE

Heavy Metals - Colorado Compliance

Test ID: T000238055
Methods: TM19 (ICP-MS): Heavy

Metals	**Dynamic Range** (ppm)	**Result** (ppm)	**Notes**
Arsenic	0.04 - 4.42	ND	
Cadmium	0.04 - 4.40	ND	
Mercury	0.04 - 4.47	ND	
Lead	0.04 - 4.39	ND	

Final Approval

Sam Smith
20Mar2023
07:29:00 AM MDT
PREPARED BY / DATE

Karen Winternheimer
20Mar2023
07:36:00 AM MDT
APPROVED BY / DATE

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CERTIFICATE OF ANALYSIS

25mg CBD: 5mg THC Gummy

Batch ID or Lot Number: **230509A, 230523E, 230719D, 230825A**	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 1 of 5
Reported: **17Mar2023**	Started: 15Mar2023	Received: 15Mar2023	

Pesticides

Test ID: T000238053
Methods: TM17

(LC-QQ LC MS/MS)	**Dynamic Range** (ppb)	**Result** (ppb)		**Dynamic Range** (ppb)	**Result** (ppb)
Abamectin	346 - 2771	ND	Malathion	302 - 2721	ND
Acephate	43 - 2762	ND	Metalaxyl	47 - 2729	ND
Acetamiprid	42 - 2731	ND	Methiocarb	44 - 2780	ND
Azoxystrobin	45 - 2755	ND	Methomyl	41 - 2736	ND
Bifenazate	47 - 2752	ND	MGK 264 1	168 - 1665	ND
Boscalid	40 - 2797	ND	MGK 264 2	119 - 1123	ND
Carbaryl	43 - 2752	ND	Myclobutanil	51 - 2791	ND
Carbofuran	43 - 2748	ND	Naled	48 - 2751	ND
Chlorantraniliprole	44 - 2821	ND	Oxamyl	42 - 2737	ND
Chlorpyrifos	46 - 2751	ND	Paclobutrazol	43 - 2747	ND
Clofentezine	279 - 2777	ND	Permethrin	273 - 2805	ND
Diazinon	280 - 2744	ND	Phosmet	41 - 2737	ND
Dichlorvos	242 - 2766	ND	Prophos	306 - 2757	ND
Dimethoate	43 - 2719	ND	Propoxur	44 - 2744	ND
E-Fenpyroximate	285 - 2726	ND	Pyridaben	298 - 2741	ND
Etofenprox	45 - 2804	ND	Spinosad A	34 - 2266	ND
Etoxazole	296 - 2715	ND	Spinosad D	51 - 495	ND
Fenoxycarb	44 - 2760	ND	Spiromesifen	287 - 2712	ND
Fipronil	50 - 2786	ND	Spirotetramat	273 - 2768	ND
Flonicamid	54 - 2797	ND	Spiroxamine 1	18 - 1190	ND
Fludioxonil	321 - 2737	ND	Spiroxamine 2	25 - 1568	ND
Hexythiazox	42 - 2718	ND	Tebuconazole	295 - 2754	ND
Imazalil	293 - 2758	ND	Thiacloprid	42 - 2730	ND
Imidacloprid	47 - 2711	ND	Thiamethoxam	43 - 2729	ND
Kresoxim-methyl	23 - 2792	ND	Trifloxystrobin	44 - 2761	ND

Final Approval

Karen Winternheimer
17Mar2023
07:43:00 AM MDT
PREPARED BY / DATE

Sam Smith
17Mar2023
07:45:00 AM MDT
APPROVED BY / DATE

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CERTIFICATE OF ANALYSIS

25mg CBD: 5mgTHC Gummy

Batch ID or Lot Number: **230509A, 230523E, 230719D, 230825A**	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 3 of 5
Reported: **17Mar2023**	Started: 15Mar2023	Received: 15Mar2023	

Residual Solvents - Colorado Compliance

Test ID: T000238056
Methods: TM04 (GC-MS): Residual Solvents

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Propane	92 - 1838	ND	
Butanes (Isobutane, n-Butane)	191 - 3811	ND	
Methanol	57 - 1137	ND	
Pentane	94 - 1884	ND	
Ethanol	98 - 1954	ND	
Acetone	92 - 1845	ND	
Isopropyl Alcohol	96 - 1910	ND	
Hexane	6 - 115	ND	
Ethyl Acetate	94 - 1880	ND	
Benzene	0.2 - 4.0	ND	
Heptanes	99 - 1974	ND	
Toluene	17 - 343	ND	
Xylenes (m,p,o-Xylenes)	124 - 2476	ND	

Final Approval

Samantha Smith
20Mar2023
01:16:00 PM MDT
PREPARED BY / DATE

K Winternheimer
Karen Winternheimer
20Mar2023
01:19:00 PM MDT
APPROVED BY / DATE

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Official Compliance: Colorado

CERTIFICATE OF ANALYSIS

03ke A@B8 3ke RFA Eskkw

Batch ID or Lot Number:	Test:	Reported:	USDA License:
231024A	**Microbial Contaminants**	**30Oct2023**	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Finished Product	T000260255	27Oct2023	N/A
	Method(s): TM25 (qPCR) TM24, TM26, TM27 (Culture Plating): Microbial (Colorado Panel)	Received: 27Oct2023	Status: Active

Microbial Contaminants

	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10^0 CFU/25g	NA	Absent	Free from visual mold, mildew, and foreign matter
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	

Final Approval

Eden Thompson-Wright
30Oct2023
01:37:00 PM MDT

PREPARED BY / DATE

Brianne Maillot
30Oct2023
01:54:00 PM MDT

APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/fe6d55fd-b48f-41e0-8380-7f8b9643d23d

Definitions
* 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
CFU/g = Colony Forming Units per Gram, LOD = Limit of Detection
ULOQ = Upper Limit of Quantitation, LLOQ = Lower Limit of Quantitation
STEC = Shiga Toxin-Producing E. coli

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