

# REGULATORY COMPLIANCE TESTING

## COMPLIANCE CERTIFICATE OF ANALYSIS

Sample ID: CW47309S03

**Batch ID:** 03-21003  
**Batch Des.:** Gummy - ZEN - Hybrid Pineapple 100mg  
**Client Username:** zenca  
**CW Collection ID:** CWC79930002B03  
**Metric UID:** 1A40603000343F40000  
 00003  
**Primary Sample Size:** 13.0 units  
**Date Sampled:** 2021-12-09  
**Date Received:** 2021-12-09  
**Total Batch Weight/Count:** 1293 units  
**Product Weight(s):** 59.37g  
**Servings:** 10  
**Date Reviewed:** December 23, 2021  
**Single Serving Mass:** 5.9 g  
**Sample Type:** Gummies / Candy / Lozenge (Non Inhalable)

Distributor Name: Zen CA  
 Distributor Address: 8131 Capwell Drive  
 Distributor License No. C11-0001377-LIC  
 Manufacturer Name: Zen CA  
 Manufacturer Address: 8131 Capwell Drive Oakland CA 94621  
 Manufacturer License No. CDPH-10004673  
 CW ANALYTICAL LABORATORIES | 510.545.6984 | 851 81st Avenue, Suite D, Oakland, CA 94621 | License No. C8-0000077-LIC

**Overall Batch Status - Pass**



### Profiling by Liquid Chromatography - Pass

HPLC [SOP-2050] | Date Performed: 2021-12-21

Cannabinoid	Percent	mg/g	Total mg <sup>A</sup>	mg/svg <sup>A</sup>	LOQ (mg/g)	LOD (mg/g)	L.C. <sup>A1</sup>	Status
d9-THC	0.159	1.593	94.59	9.459	0.005	0.001	-	Pass
d8-THC	ND <sup>1</sup>	ND <sup>1</sup>	ND <sup>1</sup>	ND <sup>1</sup>	0.005	0.001	-	Pass
THCA	ND <sup>1</sup>	ND <sup>1</sup>	ND <sup>1</sup>	ND <sup>1</sup>	0.005	0.001	-	Pass
THCV	ND <sup>1</sup>	ND <sup>1</sup>	ND <sup>1</sup>	ND <sup>1</sup>	0.005	0.001	-	Pass
THCVA	ND <sup>1</sup>	ND <sup>1</sup>	ND <sup>1</sup>	ND <sup>1</sup>	0.005	0.001	-	Pass
CBC	0.001	0.012	0.70	0.070	0.005	0.001	-	Pass
CBG	0.003	0.034	2.02	0.202	0.005	0.001	-	Pass
CBGA	ND <sup>1</sup>	ND <sup>1</sup>	ND <sup>1</sup>	ND <sup>1</sup>	0.005	0.001	-	Pass
CBN	0.001	0.011	0.64	0.064	0.005	0.001	-	Pass
CBD	0.003	0.034	2.02	0.202	0.005	0.001	-	Pass
CBDV	ND <sup>1</sup>	ND <sup>1</sup>	ND <sup>1</sup>	ND <sup>1</sup>	0.005	0.001	-	Pass
CBDA	ND <sup>1</sup>	ND <sup>1</sup>	ND <sup>1</sup>	ND <sup>1</sup>	0.005	0.001	-	Pass
<b>Total</b>	<b>0.168</b>	<b>1.684</b>	<b>99.98</b>	<b>9.998</b>	<b>NA</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Total THC</b>	<b>0.159</b>	<b>1.593</b>	<b>94.59</b>	<b>9.459</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>Pass</b>
<b>Total CBD</b>	<b>0.003</b>	<b>0.034</b>	<b>2.02</b>	<b>0.202</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>Pass</b>



<sup>1</sup>ND = Not Detected  
<sup>A1</sup>L.C. = Label Claim in mg/g  
<sup>A</sup> Total mg based on 59.37g  
 Total THC = ((THCA\*0.877) + d9-THC) / Total CBD = ((CBDA\*0.877) + CBD)  
 HPLC/DAD results are not moisture normalized. / ~100% Decarboxylated THC

### Microbiological Screening - Pass

Screening for microbiological contamination. [SOP-6010 (Asp), SOP-6060 (Sal), SOP-6070 (STEC) CONTINGENT upon request: SOP-6040 (petrifilm)] | Date Performed: 2021-12-09

Analysis	Limit of Detection	Action Limits	Status	
Shiga-Toxin E. Coli	ND	< 1 cfu/g	1 cfu/g	Pass
Salmonella	ND	< 1 cfu/g	1 cfu/g	Pass

ND = Not Detected

### Residual Solvent Analysis - Pass

Analysis of residual solvents. GC-FID [SOP-2060] | Date Performed: 2021-12-17

Solvent	ug/g	Action Limit (ug/g)	LOQ (ug/g)	LOD (ug/g)	Status
Benzene	ND <sup>1</sup>	1.0	1.00	0.33	Pass
Chloroform	ND <sup>1</sup>	1.0	1.00	0.33	Pass
1-2-Dichloroethane	ND <sup>1</sup>	1.0	1.00	0.33	Pass
Ethylene Oxide	ND <sup>1</sup>	1.0	1.00	0.33	Pass
Methylene Chloride	ND <sup>1</sup>	1.0	1.00	0.33	Pass
Trichloroethylene	ND <sup>1</sup>	1.0	1.00	0.33	Pass
Acetone	ND <sup>1</sup>	5000	150.00	10.00	Pass
Acetonitrile	ND <sup>1</sup>	410	6.00	2.30	Pass
Ethanol	ND <sup>1</sup>	5000	250.00	2.00	Pass
Ethyl Acetate	<LOQ	5000	250.00	2.00	Pass
Diethyl ether	ND <sup>1</sup>	5000	250.00	2.00	Pass
Heptane	ND <sup>1</sup>	5000	250.00	2.00	Pass
Hexane	ND <sup>1</sup>	290	6.00	2.00	Pass
Isopropanol	ND <sup>1</sup>	5000	50.00	10.00	Pass
Methanol	ND <sup>1</sup>	3000	50.00	10.00	Pass
N-Butane	ND <sup>1</sup>	5000	160.00	6.50	Pass
Pentane	ND <sup>1</sup>	5000	50.00	1.00	Pass
Propane	ND <sup>1</sup>	5000	200.00	10.00	Pass
Toluene	ND <sup>1</sup>	890	3.00	1.00	Pass
Total Xylenes	ND <sup>1</sup>	2170	12.00	1.00	Pass

<sup>1</sup>ND = Not Detected

CW uses its best efforts to deliver high-quality results and to verify that the data contained therein are based on sound scientific judgment. However, CW makes no warranties or claims to that effect and further shall not be liable for any damage or misrepresentation that may result from the use or misuse of these data in any way. Further, CW makes no claims regarding the representativeness of the analyzed sample to the larger batch from which it was taken. The limit of liability accepted by CW Analytical is limited to the total amount invoiced for services provided. All LQC samples required by § 5730 were performed and met the acceptance criteria required by California Code of Regulations Title 16 Division 42. As part of our strict confidentiality policy, CW can only discuss results with the original client of record. Sample data reflect results at the time of testing. Results may vary with storage conditions over time. Per BCC regulations, cannabis goods that have not been transported to retail within 12 months of the date on this certificate of analysis must be destroyed or retested by the licensed distributor in possession of the cannabis goods. Comments? lab@cwanalytical.com  
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This sample was tested by CW Analytical Laboratories. Results are valid through the expiration date indicated.

*Robert W Martin, PhD*  
 Robert W Martin, PhD

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**Overall Batch Status - Pass**



### Chemical Residue Screening - Pass

Targeted analysis of chemical residues. [SOP-2011 (GC), SOP-2012 (LC)] | Date Performed: 2021-12-10

	ug/g	LOQ (ug/g)	LOD (ug/g)	Action Limit (ug/g)	Status		ug/g	LOQ (ug/g)	LOD (ug/g)	Action Limit (ug/g)	Status
Abamectin	ND <sup>1</sup>	0.1	0.05	0.30	Pass	Fludioxonil	ND <sup>1</sup>	0.1	0.05	30.00	Pass
Acephate	ND <sup>1</sup>	0.1	0.05	5.00	Pass	Hexythiazox	ND <sup>1</sup>	0.1	0.05	2.00	Pass
Acequinocyl	ND <sup>1</sup>	0.1	0.05	4.00	Pass	Imazalil	ND <sup>1</sup>	0.1	0.05	0.05	Pass
Acetamiprid	ND <sup>1</sup>	0.1	0.05	5.00	Pass	Imidacloprid	ND <sup>1</sup>	0.1	0.05	3.00	Pass
Aldicarb	ND <sup>1</sup>	0.1	0.05	0.05	Pass	Kresoxim-methyl	ND <sup>1</sup>	0.1	0.05	1.00	Pass
Azoxystrobin	ND <sup>1</sup>	0.1	0.05	40.00	Pass	Malathion	ND <sup>1</sup>	0.1	0.05	5.00	Pass
Bifenazate	ND <sup>1</sup>	0.1	0.05	5.00	Pass	Metalaxyl	ND <sup>1</sup>	0.1	0.05	15.00	Pass
Bifenthrin	ND <sup>1</sup>	0.1	0.05	0.50	Pass	Methiocarb	ND <sup>1</sup>	0.1	0.05	0.05	Pass
Boscalid	ND <sup>1</sup>	0.1	0.05	10.00	Pass	Methomyl	ND <sup>1</sup>	0.1	0.05	0.10	Pass
Captan	ND <sup>1</sup>	0.1	0.05	5.00	Pass	Mevinphos	ND <sup>1</sup>	0.1	0.05	0.05	Pass
Carbaryl	ND <sup>1</sup>	0.1	0.05	0.50	Pass	Myclobutanil	ND <sup>1</sup>	0.1	0.05	9.00	Pass
Carbofuran	ND <sup>1</sup>	0.1	0.05	0.05	Pass	Naled	ND <sup>1</sup>	0.1	0.05	0.50	Pass
Chlorantraniliprole	ND <sup>1</sup>	0.1	0.05	40.00	Pass	Oxamyl	ND <sup>1</sup>	0.1	0.05	0.20	Pass
Chlordane	ND <sup>1</sup>	0.1	0.05	0.05	Pass	Paclobutrazol	ND <sup>1</sup>	0.1	0.05	0.05	Pass
Chlorfenapyr	ND <sup>1</sup>	0.1	0.05	0.05	Pass	Parathion methyl	ND <sup>1</sup>	0.1	0.05	0.05	Pass
Chlorpyrifos	ND <sup>1</sup>	0.1	0.05	0.05	Pass	PCNB	ND <sup>1</sup>	0.1	0.05	0.20	Pass
Clofentezine	ND <sup>1</sup>	0.1	0.05	0.50	Pass	Permethrin	ND <sup>1</sup>	0.1	0.05	20.00	Pass
Coumaphos	ND <sup>1</sup>	0.1	0.05	0.05	Pass	Phosmet	ND <sup>1</sup>	0.1	0.05	0.20	Pass
Cyfluthrin	ND <sup>1</sup>	0.1	0.05	1.00	Pass	Piperonyl butoxide	ND <sup>1</sup>	0.1	0.05	8.00	Pass
Cypermethrin	ND <sup>1</sup>	0.1	0.05	1.00	Pass	Prallethrin	ND <sup>1</sup>	0.1	0.05	0.40	Pass
Daminozide	ND <sup>1</sup>	0.1	0.05	0.05	Pass	Propiconazole	ND <sup>1</sup>	0.1	0.05	20.00	Pass
Diazinon	ND <sup>1</sup>	0.1	0.05	0.20	Pass	Propoxur	ND <sup>1</sup>	0.1	0.05	0.05	Pass
Dichlorvos	ND <sup>1</sup>	0.1	0.05	0.05	Pass	Pyrethrin	ND <sup>1</sup>	0.1	0.05	1.00	Pass
Dimethoate	ND <sup>1</sup>	0.1	0.05	0.05	Pass	Pyridaben	ND <sup>1</sup>	0.1	0.05	15.00	Pass
Dimethomorph	ND <sup>1</sup>	0.1	0.05	20.00	Pass	Spinetoram	ND <sup>1</sup>	0.1	0.05	3.00	Pass
Ethoprophos	ND <sup>1</sup>	0.1	0.05	0.05	Pass	Spinosad	ND <sup>1</sup>	0.1	0.05	3.00	Pass
Etofenprox	ND <sup>1</sup>	0.1	0.05	0.05	Pass	Spiromesifen	ND <sup>1</sup>	0.1	0.05	12.00	Pass
Etoxazole	ND <sup>1</sup>	0.1	0.05	1.50	Pass	Spirotetramat	ND <sup>1</sup>	0.1	0.05	13.00	Pass
Fenhexamid	ND <sup>1</sup>	0.1	0.05	10.00	Pass	Spiroxamine	ND <sup>1</sup>	0.1	0.05	0.05	Pass
Fenoxycarb	ND <sup>1</sup>	0.1	0.05	0.05	Pass	Tebuconazole	ND <sup>1</sup>	0.1	0.05	2.00	Pass
Fenpyroximate	ND <sup>1</sup>	0.1	0.05	2.00	Pass	Thiacloprid	ND <sup>1</sup>	0.1	0.05	0.05	Pass
Fipronil	ND <sup>1</sup>	0.1	0.05	0.05	Pass	Thiamethoxam	ND <sup>1</sup>	0.1	0.05	4.50	Pass
Flonicamid	ND <sup>1</sup>	0.1	0.05	0.20	Pass	Trifloxystrobin	ND <sup>1</sup>	0.1	0.05	30.00	Pass

<sup>1</sup>ND = Not Detected

### Heavy Metals Profiling - Pass

Analysis of Heavy Metals. ICP-MS [SOP-2020] | Date Performed: 2021-12-15

	ug/g	LOQ (ug/g)	LOD (ug/g)	Action Limit (ug/g)	Status
Cadmium	ND <sup>1</sup>	0.04	0.01	0.5	Pass
Lead	ND <sup>1</sup>	0.04	0.01	0.5	Pass
Arsenic	ND <sup>1</sup>	0.07	0.02	1.5	Pass
Mercury	ND <sup>1</sup>	0.05	0.02	3.0	Pass

<sup>1</sup>ND = Not Detected

### Water Activity - Pass

Analysis to determine water activity Water Activity Meter [SOP-4070] | Date Performed: 2021-12-02

Aw	Action Limit (Aw)	Status
0.69	0.85	Pass

### Foreign Material Analysis - Pass

Analysis to determine whether foreign material is present [SOP-2020] | Date Performed: 2021-12-09

Product within acceptable limits for all foreign material criteria.	Status
Pass	Pass

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**Overall Batch Status - Pass**



### Mycotoxin Screening - Pass

Analysis of Mycotoxins. LC-MS/MS [SOP-2012] | Date Performed: 2021-12-10

	ug/kg	LOQ (ug/kg)	LOD (ug/kg)	Action Limit (ug/kg)	Status
Aflatoxin B1	ND <sup>1</sup>	20	10	20	Pass
aflatoxin B2	ND <sup>1</sup>	20	10	20	Pass
Aflatoxin G1	ND <sup>1</sup>	20	10	20	Pass
Aflatoxin G2	ND <sup>1</sup>	20	10	20	Pass
Ochratoxin A	ND <sup>1</sup>	20	10	20	Pass
<b>Aflatoxin sum<sup>2</sup></b>	0.000	NA	NA	20	

<sup>1</sup>ND = Not Detected  
<sup>2</sup>Sum of Aflatoxin B1, B2, G1, G2

### Terpene Profiling -

Analysis of terpenes. [SOP-2070] | Date Performed:

	PPM	mg/g	LOQ(mg/g)	LOD(mg/g)	L.C. <sup>2</sup>	Status		PPM	mg/g	LOQ(mg/g)	LOD(mg/g)	L.C. <sup>2</sup>	Status
a-Pinene	NT						Terpinolene	NT					
Camphene	NT						Linalool	NT					
b-Myrcene	NT						Isopulegol	NT					
b-Pinene	NT						Geraniol	NT					
d3-Carene	NT						b-Caryophyllene	NT					
a-Terpinene	NT						a-Humulene	NT					
a-Ocimene	NT						cis-Nerolidol	NT					
d-Limonene	NT						trans-Nerolidol	NT					
p-Cymene	NT						guaiol	NT					
b-Ocimene	NT						a-Bisabolol	NT					
g-Terpinene	NT												
<b>Total Terpenes</b>		<b>0.0 PPM</b>											

<sup>2</sup>L.C. = Label Claim



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