



Certificate of Analysis

QA SAMPLE - INFORMATIONAL ONLY

1 of 3

ICAL ID: 20231226-108
Sample: CA231227-008-080
Hop The Wave: Iced Tea & Lemonade
Strain: Hop The Wave: Iced Tea & Lemonade
Category: Ingestible
Type: Beverage

Hop The Wave Brewing
Lic. #
SD
SD, CA 92121
Lic. #

Batch#: 110723
Batch Size Collected:
Total Batch Size:
Collected: 12/29/2023; Received: 12/29/2023
Completed: 12/29/2023

Moisture NT	Δ 9-THC 5.44 mg/unit	CBD 5.16 mg/unit	Total Cannabinoids 10.60 mg/unit	Total Terpenes NT
Water Activity NT				

Summary	SOP Used	Date Tested	
Batch	POT-PREP-002	12/28/2023	Pass
Cannabinoids	RS-PREP-001	12/28/2023	Complete
Residual Solvents	HM-PREP-001	12/27/2023	Pass
Heavy Metals	PESTMICO-LC-PREP-001 /	12/28/2023	Pass
Pesticides	PEST-GC-PREP-001		Pass



Scan to see results

Cannabinoid Profile

1 Unit = can, 365.51 g. 1 mL = 1 g.

Analyte	LOQ (mg/g)	LOD (mg/g)	%	mg/g	mg/mL	mg/unit	Analyte	LOQ (mg/g)	LOD (mg/g)	%	mg/g	mg/mL	mg/unit
THCa	0.0128	0.0043	ND	ND	ND	ND	CBGa	0.0046	0.0015	ND	ND	ND	ND
Δ 9-THC	0.0046	0.0010	0.001	0.01	0.01	5.44	CBG	0.0046	0.0005	ND	ND	ND	ND
Δ 8-THC	0.0046	0.0014	ND	ND	ND	ND	CBN	0.0046	0.0005	ND	ND	ND	ND
THCV	0.0046	0.0006	ND	ND	ND	ND	Total THC			0.00	0.01	0.01	5.44
CBDa	0.0049	0.0016	ND	ND	ND	ND	Total CBD			0.00	0.01	0.01	5.16
CBD	0.0046	0.0008	0.001	0.01	0.01	5.16	Total			0.00	0.03	0.03	10.60
CBDV	0.0046	0.0004	ND	ND	ND	ND							
CBC	0.0076	0.0025	ND	ND	ND	ND							

Total THC=THCa * 0.877 + Δ 9-THC + Δ 8-THC + Δ 8-THC; Total CBD = CBDa * 0.877 + CBD. LOD= Limit of Detection, LOQ= Limit of Quantitation, ND= Not Detected, NR= Not Reported. Potency is reported on a dry weight basis. Instrumentation and analysis SOPs used: Cannabinoids:UHPLC-DAD(POT-INST-005),Moisture:Moisture Analyzer(MOISTURE-001),Water Activity:Water Activity Meter(WA-INST-002), Foreign Material:Microscope(FOREIGN-001). Density measured at 19-24 °C, Water Activity measured at 0-90% RH. All QA submitted by the client, All CA State Compliance sampled using SAMPL-SOP-001.

Terpene Profile

Analyte	LOQ (mg/g)	LOD (mg/g)	%	mg/g	Analyte	LOQ (mg/g)	LOD (mg/g)	%	mg/g
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NR= Not Reported (no analysis was performed), ND= Not Detected (the concentration is less than the Limit of Detection (LOD)). Analytical instrumentation used: HS-GC-MS; samples analyzed according to SOP TERP-INST-003.



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Josh M Swider

Josh Swider
Lab Director, Managing Partner
12/29/2023

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Residual Solvent Analysis

Category 1	LOQ	LOD	Limit	Status	Category 2	LOQ	LOD	Limit	Status	Category 2	LOQ	LOD	Limit	Status
1,2-Dichloro-Ethane	µg/g	µg/g	µg/g	µg/g	Acetone	µg/g	µg/g	µg/g	µg/g	n-Hexane	µg/g	µg/g	µg/g	µg/g
Benzene	ND	0.264	0.088	1	Acetonitrile	ND	51.246	0.716	5000	Isopropanol	ND	0.281	0.027	290
Chloroform	ND	0.052	0.017	1	Butane	ND	0.42	0.14	410	Methanol	ND	2.86	0.614	5000
Ethylene Oxide	ND	0.076	0.025	1	Ethanol	241.1	4.849	0.748	5000	Pentane	ND	2.602	0.867	3000
Methylene-Chloride	ND	0.579	0.179	1	Ethyl-Acetate	ND	7.575	2.525	5000	Propane	ND	5.075	1.692	5000
Trichloroethene	ND	0.729	0.08	1	Ethyl-Ether	ND	2.288	0.175	5000	Toluene	ND	9.709	3.236	5000
	ND	0.145	0.028	1	Heptane	ND	2.869	0.389	5000	Xylenes	ND	0.864	0.067	890
							2.859	0.496	5000		ND	2.572	0.326	2170

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Heavy Metal Screening

	µg/g	LOQ	LOD	Limit	Status
Arsenic	ND	0.009	0.003	1.5	Pass
Cadmium	ND	0.002	0.001	0.5	Pass
Lead	ND	0.004	0.001	0.5	Pass
Mercury	ND	0.014	0.005	1.5	Pass

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Microbiological Screening

	Limit	Result	Status

ND= Not Detected. Analytical instrumentation used: qPCR; samples analyzed according to SOP MICRO-INST-001.



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Chemical Residue Screening

Category 1	LOQ	LOD	Status	Mycotoxins	LOQ	LOD	Limit	Status
	µg/g	µg/g	µg/g					
Aldicarb	ND	0.065	0.022	Pass				
Carbofuran	ND	0.030	0.009	Pass				
Chlordane	ND	0.075	0.025	Pass				
Chlorfenapyr	ND	0.075	0.025	Pass				
Chlorpyrifos	ND	0.053	0.018	Pass				
Coumaphos	ND	0.056	0.018	Pass				
Daminozide	ND	0.079	0.026	Pass				
Dichlorvos	ND	0.067	0.022	Pass				
Dimethoate	ND	0.036	0.012	Pass				
Ethoprophos	ND	0.053	0.017	Pass				
Etofenprox	ND	0.030	0.008	Pass				
Fenoxycarb	ND	0.043	0.014	Pass				
Fipronil	ND	0.045	0.015	Pass				
Imazalil	ND	0.047	0.016	Pass				
Methiocarb	ND	0.047	0.016	Pass				
Mevinphos	ND	0.042	0.014	Pass				
Paclobutrazol	ND	0.040	0.013	Pass				
Parathion Methyl	ND	0.024	0.008	Pass				
Propoxur	ND	0.047	0.016	Pass				
Spiroxamine	ND	0.032	0.011	Pass				
Thiacloprid	ND	0.042	0.014	Pass				

Category 2	LOQ	LOD	Limit	Status	Category 2	LOQ	LOD	Limit	Status		
	µg/g	µg/g	µg/g	µg/g		µg/g	µg/g	µg/g	µg/g		
Abamectin	ND	0.030	0.010	0.3	Pass	Kresoxim Methyl	ND	0.038	0.012	1	Pass
Acephate	ND	0.050	0.016	5	Pass	Malathion	ND	0.035	0.012	5	Pass
Acequinocyl	ND	0.059	0.019	4	Pass	Metalaxyl	ND	0.031	0.010	15	Pass
Acetamiprid	ND	0.044	0.015	5	Pass	Methomyl	ND	0.048	0.016	0.1	Pass
Azoxystrobin	ND	0.029	0.010	40	Pass	Myclobutanil	ND	0.055	0.018	9	Pass
Bifenazate	ND	0.035	0.012	5	Pass	Naled	ND	0.051	0.017	0.5	Pass
Bifenthrin	ND	0.040	0.013	0.5	Pass	Oxamyl	ND	0.046	0.015	0.3	Pass
Boscalid	ND	0.060	0.020	10	Pass	Pentachloronitrobenzene	ND	0.054	0.018	0.2	Pass
Captan	ND	0.358	0.120	5	Pass	Permethrin	ND	0.030	0.008	20	Pass
Carbaryl	ND	0.049	0.016	0.5	Pass	Phosmet	ND	0.038	0.012	0.2	Pass
Chlorantraniliprole	ND	0.063	0.021	40	Pass	Piperonyl Butoxide	ND	0.030	0.008	8	Pass
Clofentezine	ND	0.039	0.013	0.5	Pass	Prallethrin	ND	0.068	0.023	0.4	Pass
Cyfluthrin	ND	0.056	0.019	1	Pass	Propiconazole	ND	0.059	0.019	20	Pass
Cypermethrin	ND	0.044	0.015	1	Pass	Pyrethrins	ND	0.030	0.004	1	Pass
Diazinon	ND	0.030	0.006	0.2	Pass	Pyridaben	ND	0.035	0.012	3	Pass
Dimethomorph	ND	0.042	0.014	20	Pass	Spinetoram	ND	0.030	0.006	3	Pass
Etoxazole	ND	0.030	0.008	1.5	Pass	Spinosad	ND	0.030	0.004	3	Pass
Fenhexamid	ND	0.039	0.013	10	Pass	Spiromesifen	ND	0.042	0.014	12	Pass
Fenpyroximate	ND	0.030	0.010	2	Pass	Spirotetramat	ND	0.041	0.013	13	Pass
Flonicamid	ND	0.081	0.027	2	Pass	Tebuconazole	ND	0.044	0.014	2	Pass
Fludioxonil	ND	0.046	0.015	30	Pass	Thiamethoxam	ND	0.055	0.018	4.5	Pass
Hexythiazox	ND	0.078	0.026	2	Pass	Trifloxystrobin	ND	0.031	0.010	30	Pass
Imidacloprid	ND	0.071	0.023	3	Pass						

Other Analyte(s):

NR= Not Reported (no analysis was performed), ND= Not Detected (the concentration is less than the Limit of Detection (LOD)). Analytical instrumentation used: LC-MS-MS & GC-MS-MS; samples analyzed according to SOPs PESTMYCO-LC-INST-004 and PEST-GC-INST-003.



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Report of Analytical Results

Client: D.L. Geary's Brewing Co.
Address: 38 Evergreen Drive
 Portland, ME 04103

Lab ID SQ6211-4
SDG: SQ6211
Project Gyle 110623, 110723-1, 110723-
Client PO:
Report Date 14-NOV-23

Client ID: 110723-3 HTW H&H THC **Collected Date:** 08-NOV-23 14:00:00 **Received Date:** 09-NOV-23

Sample Description: THC

Sample Comments:

Compound	Result	Prep. Date	Analysis Date	Prep. By	Analyst	Analysis Method
Coliforms	<10 CFUs/g	09-NOV-23 14:37:00	11-NOV-23 13:50:00	CA	CA	AOAC 991.14
E. Coli	<10 CFUs/g	09-NOV-23 14:37:00	11-NOV-23 13:50:00	CA	CA	AOAC 991.14
Lactobacillus	<10 CFUs/g	09-NOV-23 14:37:00	11-NOV-23 13:50:00	CA	CA	AOAC 997.02
Listeria Species	Negative /25g	09-NOV-23 13:06:00	10-NOV-23 16:32:00	CA	CA	AOAC 2013.10
Mold	<10 CFUs/g	09-NOV-23 14:37:00	14-NOV-23 08:40:00	CA	CA	AOAC 997.02
Salmonella	Negative /25g	09-NOV-23 14:01:00	10-NOV-23 09:55:00	KM/CA	CA	AOAC 2013.01
Staphylococcus	<10 CFUs/g	09-NOV-23 14:37:00	10-NOV-23 13:16:00	CA	KM	AOAC 2003.07
Yeast	<10 CFUs/g	09-NOV-23 14:37:00	14-NOV-23 08:40:00	CA	CA	AOAC 997.02
pH(Product)	3.34 pH	09-NOV-23 13:58:00	09-NOV-23 14:09:00	CA	CA	AOAC 994.18

This report has been electronically signed:
 Leslie Dimond
 Quality Assurance Officer