

#### **CERTIFICATE OF ANALYSIS**

\* FOR QUALITY ASSURANCE PURPOSES. NOT A MAINE COMPLIANCE CERTIFICATE.

HALF & HALF 080724 (EDIBLE LIQUID) /// PRODUCED: AUG 09, 2024

CLIENT: 1820 BREWING COMPANY // BATCH: PASS



MATRIX: EDIBLE LIQUID 1
DENSITY: .997 g/ml 1
SAMPLE ID: NAL-240807-012
COLLECTED ON: AUG 07, 2024
RECEIVED ON: AUG 07, 2024
SAMPLE SIZE: 355 ML 1

SAMPLED BY: 1820 BREWING COMPANY

RECEIVED BY: DYLAN ARRIGO SERVING SIZE: 355 ML 1

CANNABINOID OVERVIEW

Δ9-THC: 5.03 mg/srv

CBD: 4.81 mg/srv

TOTAL CANNABINOIDS: 9.84 mg/srv

BATCH RESULT: PASS

POTENCY

TESTED

# CAN.1: POTENCY & CANNABINOID PROFILE BY HPLC-UV PREPARATION: AUG 08, 2024 // ANALYSIS: AUG 08, 2024

ANALYTE	LIMIT	AMT	AMT	LOD/LOQ (mg/ml)	PASS/FAIL	ANALYTE	LIMIT	AMT	AMT LOD/LOQ (mg/ml) I	PASS/FAIL
CBC		ND	ND	0.00250/0.00500	N/A	Δ <sup>8</sup> -THCA		ND	ND 0.00500/0.00500	N/A
CBCA		ND	ND	0.00250/0.00500	N/A	Δ9-THC	0.	00142 % 0.01	42 mg/ml0.00250/0.00500	N/A
CBD		0.00136 %	0.0136 mg/ml	0.00250/0.00500	N/A	Δ10-THC		ND	ND 0.00250/0.00500	N/A
CBDA		ND	ND	0.00250/0.00500	N/A	EXO-THC		ND	ND 0.00500/0.00500	N/A
CBDV		ND	ND	0.00250/0.00500	N/A	THCA		ND	ND 0.00500/0.00500	N/A
CBDVA		ND	ND	0.00250/0.00500	N/A	THCV		ND	ND 0.00250/0.00500	N/A
CBG		ND	ND	0.00250/0.00500	N/A	THCVA		ND	ND 0.00250/0.00500	N/A
CBGA		ND	ND	0.00250/0.00500	N/A	TOTAL THC**	0.	00142 %0.01	42 mg/ml	N/A
CBL		ND	ND	0.00500/0.00500	N/A	TOTAL CBD**	0.	00136 %0.01	36 mg/ml	N/A
CBLA		ND	ND	0.00250/0.00500	N/A	CBD/SRV		4.81 mg		N/A
CBN		ND	N D	0.00250/0.00500	N/A	Δ9-THC/SRV		5.03 mg		N/A
CBNA		ND	ND	0.00250/0.00500	N/A	TOTAL THC/SRV*	*	5.03 mg		N/A
Δ <sup>8</sup> -THC		ND	ND	0.00500/0.00500	N/A	TOTAL CBD/SRV*	*	4.81 mg		N/A

\*\* TOTAL CBD = (CBDA X 0.877) + CBD

\*\* TOTAL THC = (THCA X 0.877) + THC

Reported on an as received basis

 $1000 \, \mu g/g = 1 \, mg/g$ 



AUTHORIZED BY: ZACHARY SMITH LABORATORY MANAGER, NOVA ANALYTIC LABS AUG 09, 2024

<sup>1</sup> ENTERED BY LAB



## Certificate of Analysis

**QA SAMPLE - INFORMATIONAL ONLY** 

1 of 3

ICAL ID: 20240809-087 Sample: CA240809-043-120 Half & Half Strain: Half & Half Category: Ingestible Type: Other

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

Batch#: 080724 Batch Size Collected: Total Batch Size:

Collected: 09/19/2024; Received: 09/19/2024 Completed: 09/19/2024

Moisture NT Water Activity Δ9-ΤΗС NT

CBD NT

Lic.#

**Total Cannabinoids** NT

Sum of Cannabinoids NT

**Total Terpenes** NT

Summary Batch Residual Solvents Microbials Mycotoxins Heavy Metals Pesticides

RS-PREP-001 MICRO-PREP-001 PESTMYCO-LC-PREP-001 HM-PREP-001 PESTMYCO-LC-PREP-001/ PEST-GC-PREP-001

SOP Used

**Date Tested** Pass 08/09/2024 Pass 08/12/2024 08/12/2024 Pass Pass Pass 08/13/2024

Scan to see results

Cannabinoid Profile

Analyte

LOQ (mg/g)

LOD (mg/g) %

mg/g Analyte

LOQ (mg/g)

LOD (mg/g)

%

mg/g

Total THC=THCa\*0.877 + d9-THC + d8-THC; Total CBD = CBDa\*0.877 + CBD. Total Cannabinoids = (Acidic Cannabinoids)\*0.877 + Non-acidic Cannabinoids; Sum of Cannabinoids = Acidic Cannabinoids Cannabinoids. 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) %

NR= Not Reported (no analysis was performed), ND= Not Detected (the concentration is less then the Limit of Detection (LODI). Analytical instrumentation used: HS-GC-MS; samples analyzed according to SOP TERP-INST-003.



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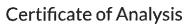
Lab Director, Managing Partner 09/19/2024

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This product has been tested by Infinite Chemical Analysis, LLC using valid testing methodologies and a quality system as required by state law. All LQC samples were performed and met the prescribed acceptance criteria in 16 CCR section 15730, pursuant to 16 CCR section 15726(e)(13). Values reported relate only to the product tested. Infinite Chemical Analysis, LLC makes no claims as to the efficacy, safety or other risks associated with any detected or non-detected levels of any compounds reported herein. This Certificate shall not be reproduced except in full, without the written approval of Infinite Chemical Analysis, LLC.



**QA SAMPLE - INFORMATIONAL ONLY** 

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ICAL ID: 20240809-087 Sample: CA240809-043-120 Half & Half Strain: Half & Half Category: Ingestible Type: Other Hop The Wave Brewing Lic. # SD SD, CA 92121

Lic.#

Batch#: 080724 Batch Size Collected: Total Batch Size: Collected: 09/19/2024; Received: 09/19/2024 Completed: 09/19/2024

#### **Residual Solvent Analysis**

Category 1	LOQ LOD I	_imit	Status	Category 2		LOQ	LOD	Limit	Status	Category 2		LOQ	LOD	Limit	Status
	ha/a ha/a ha/a	µg/g		(2 - 5x 1 - 5x	µg/g	µg/g	ha/a	μg/g			µg/g	µg/g	μg/g	µg/g	
1,2-Dichloro-Ethane	ND 0.264 0.088	1	Pass	Acetone	ND	51.246	0.716	5000	Pass	n-Hexane	ND	0.281	0.027	290	Pass
Benzene	ND 0.052 0.017	1	Pass	Acetonitrile	ND	0.42	0.14	410	Pass	Isopropanol	ND	2.86	0.614	5000	Pass
Chloroform	ND 0.076 0.025	1	Pass	Butane	ND	4.849	0.748	5000	Pass	Methanol	ND	2.602	0.867	3000	Pass
Ethylene Oxide	ND 0.579 0.179	1	Pass	Ethanol	336.9	7.575	2.525	5000	Pass	Pentane	ND	5.075	1.692	5000	Pass
Methylene-Chloride	ND 0.729 0.08	1	Pass	Ethyl-Acetate	ND	2.288	0.175	5000	Pass	Propane	ND	9.709	3.236	5000	Pass
Trichloroethene	ND 0.145 0.028	1	Pass	Ethyl-Ether	ND	2.869	0.389	5000	Pass	Toluene	ND	0.864	0.067	890	Pass
			-	Heptane	ND	2.859	0.496	5000	Pass	Xylenes	ND	2.572	0.326	2170	Pass

NR= Not Reported (no analysis was performed), ND= Not Detected (the concentration is less then the Limit of Detection (LOD)). Analytical instrumentation used: HS-GC-MS; samples analyzed according to SOP RS-INST-003.

#### **Heavy Metal Screening**

		LOQ	LOD	Limit	Status
	µg/g	µg/g	µg/g	µg/g	
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	3	Pass

NR= Not Reported (no analysis was performed), ND= Not Detected (the concentration is less then the Limit of Detection (LOD)). Analytical instrumentation used: ICP-MS; samples analyzed according to SOP HM-INST-003.

### Microbiological Screening

	Limit	Result	Status
	CFU/g	CFU/g	
Total Aerobic Plate Count	10000	ND	Pass
Aspergillus flavus		Not Detected	Pass
Aspergillus fumigatus		Not Detected	Pass
Aspergillus niger		Not Detected	Pass
Aspergillus terreus		Not Detected	Pass
Total Coliforms	100	ND	Pass
STEC		Not Detected	Pass
Enterobacteriaceae		NR	NT
Listeria		ND	Tested
Pseudomonas aeruginosa		Not Detected	Pass
Salmonella SPP		Not Detected	Pass
Total E. coli		NR	NT
Staphylococcus aureus		Not Detected	Pass
Total Yeast and Mold	1000	ND	Pass

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



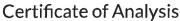
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Josh Swider Lab Director, Managing Partner 09/19/2024 Confident LIMS All Rights Reserved coa.support@confidentlims.com (866) 506-5866

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**QA SAMPLE - INFORMATIONAL ONLY** 

3 of 3

ICAL ID: 20240809-087 Sample: CA240809-043-120 Half & Half Strain: Half & Half Category: Ingestible

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

Lic.#

Batch#: 080724 Batch Size Collected: Total Batch Size: Collected: 09/19/2024; Received: 09/19/2024

Completed: 09/19/2024

#### **Chemical Residue Screening**

Type: Other

Category 1		LOQ	LOD	Status	Mycotoxins		LOQ	LOD	Limit	Status
	µg/g	µg/g	µg/g		-4-	μg/kg	μg/kg	μg/kg	μg/kg	
Aldicarb	ND	0.065	0.022	Pass	B1	ND	7.88	2.6		Tested
Carbofuran	ND	0.030	0.009	Pass	B2	ND	6.18	2.04		Tested
Chlordane	ND	0.075	0.025	Pass	G1	ND	8.99	2.97		Tested
Chlorfenapyr	ND	0.075	0.025	Pass	G2	ND	5.72	1.89		Tested
Chlorpyrifos	ND	0.053	0.018	Pass	Ochratoxin A	ND	11.72	3.87	20	Pass
Coumaphos	ND	0.056	0.018	Pass	Total Aflatoxins	ND			20	Pass
Daminozide	ND	0.079	0.026	Pass						
Dichloryos	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	0.043	0.015	Pass						
Methiocarb	ND	0.047	0.016	Pass						
	ND	0.047	0.018	Pass						
Mevinphos										
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		2 3 2 2	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 then 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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Josh Swider

Lab Director, Managing Partner 09/19/2024

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