



Certificate of Analysis

QA SAMPLE - INFORMATIONAL ONLY

1 of 3

ICAL ID: 20221108-030
Sample: CA221108-013-033
Topical Gel with Arnica
Strain: Topical Gel with Arnica
Category: Topical

Hawaiian Choice
Lic. #
P.O. Box 61242
Honolulu, HI 96839
Lic. #

Batch#: 6651
Batch Size Collected:
Total Batch Size:
Collected: 11/10/2022; Received: 11/10/2022
Completed: 11/10/2022

Moisture NT Water Activity NT	Δ9-THC ND	CBD 425.62 mg/unit	Total Cannabinoids 490.79 mg/unit	Total Terpenes NT
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Summary	SOP Used	Date Tested	
Batch			Pass
Cannabinoids	POT-PREP-005	11/08/2022	Complete
Residual Solvents	RS-PREP-001	11/08/2022	Pass
Microbials	MICRO-PREP-001	11/10/2022	Pass
Mycotoxins	PESTMYCO-LC-PREP-001	11/08/2022	Pass
Heavy Metals	HM-PREP-001	11/09/2022	Pass
Foreign Matter	FM-PREP-001	11/08/2022	Pass
Pesticides	PESTMYCO-LC-PREP-001/ PEST-GC-PREP-001	11/08/2022	Pass



Scan to see results

Cannabinoid Profile

1 Unit = 45mL container, 44.76 g. 1 mL = 0.995 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	0.0481	0.0160	ND	ND	ND	ND	CBDV	0.0414	0.0062	0.062	0.62	0.62	27.89
Δ9-THC	0.0414	0.0122	ND	ND	ND	ND	CBN	0.0414	0.0089	ND	ND	ND	ND
Δ8-THC	0.0414	0.0066	ND	ND	ND	ND	CBGa	0.0414	0.0100	ND	ND	ND	ND
THCV	0.0414	0.0053	ND	ND	ND	ND	CBG	0.0414	0.0056	0.083	0.83	0.83	37.29
CBDa	0.0532	0.0177	ND	ND	ND	ND	CBC	0.0425	0.0142	ND	ND	ND	ND
CBD	0.0414	0.0055	0.951	9.51	9.46	425.62	Total THC			ND	ND	ND	ND
							Total CBD			0.95	9.51	9.46	425.62
							Total			1.10	10.96	10.91	490.79

Total THC=THCa * 0.877 + Δ9-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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Lab Director, Managing Partner
11/10/2022

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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.



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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			
	µg/g	µg/g	µg/g	µg/g		µg/g	µg/g	µg/g	µg/g		µg/g	µg/g	µg/g	µg/g			
1,2-Dichloro-Ethane	ND	0.3	0.1	1	Pass	Acetone	ND	51.246	3.144	5000	Pass	n-Hexane	ND	0.729	0.179	290	Pass
Benzene	ND	0.1	0.0333	1	Pass	Acetonitrile	ND	1.723	0.574	410	Pass	Isopropanol	ND	0.335	0.112	5000	Pass
Chloroform	ND	0.154	0.0514	1	Pass	Butane	ND	8.36	2.787	5000	Pass	Methanol	ND	7.739	2.58	3000	Pass
Ethylene Oxide	ND	0.971	0.324	1	Pass	Ethanol	584.8	5.814	1.938	5000	Pass	Pentane	ND	5.212	1.737	5000	Pass
Methylene-Chloride	ND	2.602	0.867	1	Pass	Ethyl-Acetate	<LOQ	2.288	0.329	5000	Pass	Propane	ND	31.953	10.651	5000	Pass
Trichloroethene	ND	0.2	0.067	1	Pass	Ethyl-Ether	ND	2.869	0.901	5000	Pass	Toluene	ND	0.864	0.069	890	Pass
						Heptane	ND	2.859	0.748	5000	Pass	Xylenes	ND	2.572	0.444	2170	Pass

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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	<LOQ	0.004	0.001	0.5	Pass
Mercury	ND	0.014	0.005	3	Pass

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Microbiological Screening

	Limit	Result	Status
	CFU/g	CFU/g	
Aspergillus flavus		NR	NT
Aspergillus fumigatus		NR	NT
Aspergillus niger		NR	NT
Aspergillus terreus		NR	NT
STEC		Not Detected	Pass
Salmonella SPP		Not Detected	Pass

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		µg/kg	µg/kg	µg/kg			
Aldicarb	ND	0.030	0.010	Pass	B1	ND	5.88	1.94	Tested	
Carbofuran	ND	0.030	0.004	Pass	B2	ND	8.04	2.65	Tested	
Chlordane	ND	0.075	0.025	Pass	G1	ND	11.85	3.91	Tested	
Chlorfenapyr	ND	0.075	0.025	Pass	G2	ND	5	1.54	Tested	
Chlorpyrifos	ND	0.033	0.011	Pass	Ochratoxin A	ND	14.49	4.78	20	Pass
Coumaphos	ND	0.030	0.007	Pass	Total Aflatoxins	ND		20	Pass	
Daminozide	ND	0.058	0.019	Pass						
Dichlorvos	ND	0.051	0.017	Pass						
Dimethoate	ND	0.030	0.009	Pass						
Ethoprophos	ND	0.030	0.006	Pass						
Etofenprox	ND	0.030	0.006	Pass						
Fenoxycarb	ND	0.034	0.011	Pass						
Fipronil	ND	0.030	0.006	Pass						
Imazalil	ND	0.030	0.009	Pass						
Methiocarb	ND	0.030	0.010	Pass						
Mevinphos	ND	0.040	0.013	Pass						
Paclbutrazol	ND	0.034	0.011	Pass						
Parathion Methyl	ND	0.024	0.008	Pass						
Propoxur	ND	0.030	0.007	Pass						
Spiroxamine	ND	0.030	0.004	Pass						
Thiacloprid	ND	0.030	0.003	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	0.044	0.014	0.3	Pass	Kresoxim Methyl	ND	0.030	0.010	1	Pass
Acephate	ND	0.030	0.006	5	Pass	Malathion	ND	0.030	0.007	5	Pass
Acequinocyl	ND	0.085	0.028	4	Pass	Metalaxyl	ND	0.030	0.005	15	Pass
Acetamiprid	ND	0.030	0.007	5	Pass	Methomyl	ND	0.032	0.010	0.1	Pass
Azoxystrobin	ND	0.030	0.004	40	Pass	Myclobutanil	ND	0.030	0.010	9	Pass
Bifenazate	ND	0.030	0.008	5	Pass	Naled	ND	0.035	0.012	0.5	Pass
Bifenthrin	ND	0.049	0.016	0.5	Pass	Oxamyl	ND	0.031	0.010	0.3	Pass
Boscalid	ND	0.032	0.011	10	Pass	Pentachloronitrobenzene	ND	0.054	0.018	0.2	Pass
Captan	ND	0.358	0.120	5	Pass	Permethrin	ND	0.030	0.004	20	Pass
Carbaryl	ND	0.030	0.006	0.5	Pass	Phosmet	ND	0.030	0.008	0.2	Pass
Chlorantraniliprole	ND	0.030	0.007	40	Pass	Piperonyl Butoxide	ND	0.030	0.009	8	Pass
Clofentezine	ND	0.030	0.006	0.5	Pass	Prallethrin	ND	0.062	0.020	0.4	Pass
Cyfluthrin	ND	0.056	0.019	1	Pass	Propiconazole	ND	0.064	0.021	20	Pass
Cypermethrin	ND	0.044	0.015	1	Pass	Pyrethrins	ND	0.030	0.004	1	Pass
Diazinon	ND	0.082	0.027	0.2	Pass	Pyridaben	ND	0.030	0.008	3	Pass
Dimethomorph	ND	0.031	0.010	20	Pass	Spinetoram	ND	0.030	0.003	3	Pass
Etoxazole	ND	0.030	0.005	1.5	Pass	Spinosad	ND	0.030	0.003	3	Pass
Fenhexamid	ND	0.044	0.015	10	Pass	Spiromesifen	ND	0.031	0.010	12	Pass
Fenpyroximate	ND	0.030	0.010	2	Pass	Spirotetramat	ND	0.030	0.010	13	Pass
Flonicamid	ND	0.055	0.018	2	Pass	Tebuconazole	ND	0.065	0.021	2	Pass
Fludioxonil	ND	0.058	0.019	30	Pass	Thiamethoxam	ND	0.030	0.009	4.5	Pass
Hexythiazox	ND	0.066	0.022	2	Pass	Trifloxystrobin	ND	0.030	0.004	30	Pass
Imidacloprid	ND	0.070	0.023	3	Pass						

Other Analyte(s):

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