



Steep Hill Hawaii™

1150 S. KING STREET, HONOLULU, HI 96814 LICENSE #: 92630

CERTIFICATE OF ANALYSIS

Sample Name: Infusion
 Steep Hill ID: HI87827
 Batch ID: 1000010
 State ID:
 Sample Type: Tincture
 Date Received: 7/7/2020
 Date Reported: 7/16/2020
 Density: 0.930 g/mL

Customer: Hawaii Nexus

OVERALL BATCH SUMMARY: **PASS**

Residual Pesticides	Microbial Impurities	Mycotoxins	Heavy Metals	Foreign Material	Residual Solvents
Pass	Pass	Pass	Pass	NT	NT



Total THC
 0.263 %
 2.63 mg/g
 2.45 mg/mL

Total CBD
 5.74 %
 57.4 mg/g
 53.4 mg/mL

Total Cannabinoids
 6.45 %
 64.5 mg/g
 60.0 mg/mL

Total THC = [THCA x 0.877] + [THC]
 Total CBD = [CBDA x 0.877] + [CBD]

Nelson Lazaga, Ph.D
 Laboratory Director
 Date: 7/16/2020

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CERTIFICATE OF ANALYSIS

Terpenoid Results

NT

Standard terpene analysis utilizing Liquid Chromatography – Mass Spectrometry (LC-MS; HI-SOP-024)

Analyte	%	mg/g	mg/mL	LOD mg/g	LOQ mg/g
α-Bisabolol	NT	NT	NT	NT	NT
Camphene	NT	NT	NT	NT	NT
3-Carene	NT	NT	NT	NT	NT
Caryophyllene Oxide	NT	NT	NT	NT	NT
β-Caryophyllene	NT	NT	NT	NT	NT
Citronellol	NT	NT	NT	NT	NT
Eucalyptol	NT	NT	NT	NT	NT
Geraniol	NT	NT	NT	NT	NT
Guaiol	NT	NT	NT	NT	NT
Humulene	NT	NT	NT	NT	NT
p-Isopropyltoluene	NT	NT	NT	NT	NT
Isopulegol	NT	NT	NT	NT	NT
Limonene	NT	NT	NT	NT	NT
Linalool	NT	NT	NT	NT	NT
β-Myrcene	NT	NT	NT	NT	NT
Nerolidol	NT	NT	NT	NT	NT
Ocimene	NT	NT	NT	NT	NT
α-Pinene	NT	NT	NT	NT	NT
β-Pinene	NT	NT	NT	NT	NT
α-Terpinene	NT	NT	NT	NT	NT
γ-Terpinene	NT	NT	NT	NT	NT
Terpinolene	NT	NT	NT	NT	NT
Total	NT	NT	NT	NT	NT

Microbial Impurities Results

Pass

7/10/2020

Microbiological screening utilizing PathogenDx and TEMPO (HI-SOP-008 + HI-SOP-007) - Limit units: CFU/g

Analyte	Pass/Fail	Result	Limit	LOQ
Aspergillus flavus	Pass	ND	ND	Not Detected in 1 gram
Aspergillus fumigatus	Pass	ND	ND	Not Detected in 1 gram
Aspergillus niger	Pass	ND	ND	Not Detected in 1 gram
Salmonella	Pass	ND	ND	Not Detected in 1 gram
Aerobic	Pass	<100	10000	1 CFU/g
Coliform	Pass	<100	100	1 CFU/g
Enterobacteria	Pass	<100	100	1 CFU/g
General E. coli	Pass	<1	ND	1 CFU/g
Yeast & Mold	Pass	<100	1000	1 CFU/g

Moisture Results

NT

Moisture content analysis utilizing Moisture Balance (MB; HI-SOP-033) - Limit units: %

Analyte	Pass/Fail	%	Limit
Moisture	NT	NT	

Foreign Material Results

NT

Foreign material analysis utilizing visual inspection with 10x magnification (HI-SOP-016)

Analyte	Pass/Fail
Visual Inspection	NT

Cannabinoid Results

7/15/2020

Standard potency analysis utilizing Ultra High Performance Liquid Chromatography (UHPLC; HI-SOP-024)

Analyte	%	mg/g	mg/mL	LOD mg/g	LOQ mg/g
CBC	NT	NT	NT	NT	NT
CBD	3.07	30.7	28.5	0.00923	0.00969
CBDA	3.05	30.5	28.3	0.00923	0.0166
CBDV	NT	NT	NT	NT	NT
CBDVA	NT	NT	NT	NT	NT
CBG	0.0735	0.735	0.684	0.00923	0.0106
CBGA	NT	NT	NT	NT	NT
CBN	ND	ND	ND	0.00923	0.00923
THC	0.249	2.49	2.31	0.00923	0.00923
delta-8-THC	NT	NT	NT	NT	NT
THCA	0.0168	0.168	0.156	0.00923	0.0212
THCV	NT	NT	NT	NT	NT
THCVA	NT	NT	NT	NT	NT
Total	6.45	64.5	60.0		

LOD: Limit of Detection
 LOQ: Limit of Quantitation
 NT: Not Tested
 ND: Not Detected

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CERTIFICATE OF ANALYSIS

Residual Pesticides Results

Pass

7/14/2020

Residual pesticide analysis utilizing Liquid Chromatography – Mass Spectrometry (LC-MSMS; HI-SOP-025) - Limit units: ug/g = ppm

Analyte	Pass/Fail	µg/g	Limit	LOD µg/g	LOQ µg/g	Analyte	Pass/Fail	µg/g	Limit	LOD µg/g	LOQ µg/g
Abamectin B1a	Pass	ND	1	0.234	0.710	Imazalil	Pass	ND	1	0.0458	0.139
Acephate	Pass	ND	1	0.0669	0.203	Imidacloprid	Pass	ND	1	0.0664	0.201
Acequinocyl	Pass	ND	1	0.00341	0.923	Kresoxim-methyl	Pass	ND	1	0.0628	0.190
Acetamiprid	Pass	ND	1	0.111	0.336	Malathion	Pass	ND	1	0.0574	0.174
Aldicarb	Pass	ND	1	0.0368	0.112	Metalaxyl	Pass	ND	1	0.0550	0.167
Azoxystrobin	Pass	ND	1	0.0853	0.258	Methiocarb	Pass	ND	1	0.0936	0.284
Bifenazate	Pass	ND	1	0.0985	0.298	Methomyl	Pass	ND	1	0.0365	0.110
Bifenthrin	Pass	ND	1	0.193	0.585	Methyl Parathion	Pass	ND	1	0.139	0.422
Boscalid	Pass	ND	1	0.201	0.610	MGK-264	Pass	ND	1	0.182	0.552
Carbaryl	Pass	ND	1	0.0390	0.118	Myclobutanil	Pass	ND	1	0.0564	0.171
Carbofuran	Pass	ND	1	0.0273	0.0828	Naled	Pass	ND	1	0.0520	0.158
Chlorantraniliprole	Pass	ND	1	0.0838	0.254	Oxamyl	Pass	ND	1	0.0362	0.110
Chlorfenapyr	Pass	ND	1	0.0360	0.109	Paclobutrazol	Pass	ND	1	0.0367	0.111
Chlorpyrifos	Pass	ND	1	0.0823	0.249	Permethrin	Pass	ND	1	0.250	0.758
Clofentezine	Pass	ND	1	0.155	0.471	Phosmet	Pass	ND	1	0.130	0.393
Cyfluthrin	Pass	ND	1	0.387	0.923	Piperonyl Butoxide	Pass	ND	1	0.0424	0.129
Cypermethrin	Pass	ND	1	0.247	0.747	Prallethrin	Pass	ND	1	0.0770	0.233
Diazinon	Pass	ND	1	0.0326	0.0987	Propiconazole	Pass	ND	1	0.0785	0.238
Dichlorvos	Pass	ND	1	0.165	0.501	Propoxur	Pass	ND	1	0.0287	0.0870
Dimethoate	Pass	ND	1	0.0458	0.139	Pyrethrins	Pass	ND	1	0.0368	0.111
Ethoprophos	Pass	ND	1	0.0869	0.263	Pyridaben	Pass	ND	1	0.195	0.592
Etofenprox	Pass	ND	1	0.225	0.682	Spinosad	Pass	ND	1	0.0307	0.0931
Etoxazole	Pass	ND	1	0.0463	0.140	Spiromesifen	Pass	ND	1	0.0581	0.176
Fenpyroximate	Pass	ND	1	0.00137	0.00415	Spirotetramat	Pass	ND	1	0.0493	0.149
Fipronil	Pass	ND	1	0.105	0.317	Tebuconazole	Pass	ND	1	0.0750	0.227
Fonicamid	Pass	ND	1	0.0894	0.271	Thiacloprid	Pass	ND	1	0.0573	0.174
Fludioxonil	Pass	ND	1	0.0576	0.175	Thiamethoxam	Pass	ND	1	0.0384	0.116
Hexythiazox	Pass	ND	1	0.205	0.621	Trifloxystrobin	Pass	ND	1	0.0373	0.113

Mycotoxin Results

Pass

7/14/2020

Mycotoxin analysis utilizing Liquid Chromatography – Mass Spectrometry (LC-MS; HI-SOP-025) - Limit units: µg/kg = ppb

Analyte	Pass/Fail	µg/kg	Limit	LOD µg/kg	LOQ µg/kg
Aflatoxin B1		ND		4.79	14.5
Aflatoxin B2		ND		4.39	13.3
Aflatoxin G1		ND		4.55	13.8
Aflatoxin G2		ND		6.58	19.9
Ochratoxin A	Pass	ND	<20	8.48	25.7
Total Aflatoxins	Pass	ND	<20	6.58	19.9

Heavy Metals Results

Pass

7/16/2020

Heavy metals analysis utilizing Atomic Absorption Spectroscopy (AAS; HI-SOP-015) - Limit units: µg/g = ppm

Analyte	Pass/Fail	µg/g	Limit	LOD µg/g	LOQ µg/g
Arsenic	Pass	ND	10	0.00138	1.43
Cadmium	Pass	ND	4	0.0000115	1.43
Lead	Pass	< LOQ	6	0.00166	1.43
Mercury	Pass	ND	2	0.00123	1.43

Residual Solvents Results

NT

Residual solvents and processing chemicals analysis utilizing Headspace Gas Chromatography – Mass Spectrometry (HS-GC-MS; HI-SOP-010) - Limit units: ug/g = ppm

Analyte	Pass/Fail	µg/g	Limit	LOD µg/g	LOQ µg/g	Analyte	Pass/Fail	µg/g	Limit	LOD µg/g	LOQ µg/g
Acetone	NT	NT	NT	NT	NT	Isobutane	NT	NT	NT	NT	NT
Acetonitrile	NT	NT	NT	NT	NT	Isopropanol	NT	NT	NT	NT	NT
Benzene	NT	NT	NT	NT	NT	Methanol	NT	NT	NT	NT	NT
Butanes	NT	NT	NT	NT	NT	n-Pentane	NT	NT	NT	NT	NT
Chloroform	NT	NT	NT	NT	NT	Tetrahydrofuran	NT	NT	NT	NT	NT
Ethanol	NT	NT	NT	NT	NT	Toluene	NT	NT	NT	NT	NT
Heptanes	NT	NT	NT	NT	NT	Total Xylenes	NT	NT	NT	NT	NT
n-Hexane	NT	NT	NT	NT	NT						

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