



Steep Hill Hawaii™

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

CERTIFICATE OF ANALYSIS

Sample Name: Hawaii Nexus Synergy
 Steep Hill ID: HI87825
 Batch ID: 1000200
 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
 0.0971 %
 0.971 mg/g
 0.903 mg/mL

Total CBD
 2.11 %
 21.1 mg/g
 19.6 mg/mL

Total Cannabinoids
 2.36 %
 23.6 mg/g
 22.0 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	1.26	12.6	11.7	0.00928	0.00974
CBDA	0.975	9.75	9.06	0.00928	0.0167
CBDV	NT	NT	NT	NT	NT
CBDVA	NT	NT	NT	NT	NT
CBG	0.0318	0.318	0.296	0.00928	0.0107
CBGA	NT	NT	NT	NT	NT
CBN	ND	ND	ND	0.00928	0.00928
THC	0.0935	0.935	0.869	0.00928	0.00928
delta-8-THC	NT	NT	NT	NT	NT
THCA	0.00408	0.0408	0.0380	0.00928	0.0213
THCV	NT	NT	NT	NT	NT
THCVA	NT	NT	NT	NT	NT
Total	2.36	23.6	22.0		

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	ug/g	Limit	LOD ug/g	LOQ ug/g	Analyte	Pass/Fail	ug/g	Limit	LOD ug/g	LOQ ug/g
Abamectin B1a	Pass	ND	1	0.236	0.714	Imazalil	Pass	ND	1	0.0461	0.140
Acephate	Pass	ND	1	0.0673	0.204	Imidacloprid	Pass	ND	1	0.0668	0.202
Acequinocyl	Pass	ND	1	0.00343	0.928	Kresoxim-methyl	Pass	ND	1	0.0631	0.191
Acetamiprid	Pass	ND	1	0.112	0.338	Malathion	Pass	ND	1	0.0577	0.175
Aldicarb	Pass	ND	1	0.0370	0.112	Metalaxyl	Pass	ND	1	0.0553	0.167
Azoxystrobin	Pass	ND	1	0.0858	0.260	Methiocarb	Pass	ND	1	0.0942	0.285
Bifenazate	Pass	ND	1	0.0990	0.300	Methomyl	Pass	ND	1	0.0367	0.111
Bifenthrin	Pass	ND	1	0.194	0.588	Methyl Parathion	Pass	ND	1	0.140	0.424
Boscalid	Pass	ND	1	0.202	0.613	MGK-264	Pass	ND	1	0.183	0.555
Carbaryl	Pass	ND	1	0.0392	0.119	Myclobutanil	Pass	ND	1	0.0567	0.172
Carbofuran	Pass	ND	1	0.0275	0.0833	Naled	Pass	ND	1	0.0523	0.158
Chlorantraniliprole	Pass	ND	1	0.0842	0.255	Oxamyl	Pass	ND	1	0.0364	0.110
Chlorfenapyr	Pass	ND	1	0.0362	0.110	Paclobutrazol	Pass	ND	1	0.0369	0.112
Chlorpyrifos	Pass	ND	1	0.0827	0.251	Permethrin	Pass	ND	1	0.251	0.762
Clofentezine	Pass	ND	1	0.156	0.474	Phosmet	Pass	ND	1	0.130	0.395
Cyfluthrin	Pass	ND	1	0.389	0.928	Piperonyl Butoxide	Pass	ND	1	0.0427	0.129
Cypermethrin	Pass	ND	1	0.248	0.751	Prallethrin	Pass	ND	1	0.0774	0.235
Diazinon	Pass	ND	1	0.0328	0.0993	Propiconazole	Pass	ND	1	0.0789	0.239
Dichlorvos	Pass	ND	1	0.166	0.504	Propoxur	Pass	ND	1	0.0289	0.0875
Dimethoate	Pass	ND	1	0.0461	0.140	Pyrethrins	Pass	ND	1	0.0370	0.112
Ethoprophos	Pass	ND	1	0.0874	0.265	Pyridaben	Pass	ND	1	0.196	0.595
Etofenprox	Pass	ND	1	0.226	0.686	Spinosad	Pass	ND	1	0.0309	0.0936
Etoxazole	Pass	ND	1	0.0466	0.141	Spiromesifen	Pass	ND	1	0.0584	0.177
Fenpyroximate	Pass	ND	1	0.00137	0.00418	Spirotetramat	Pass	ND	1	0.0496	0.150
Fipronil	Pass	ND	1	0.105	0.319	Tebuconazole	Pass	ND	1	0.0754	0.228
Flonicamid	Pass	ND	1	0.0898	0.272	Thiacloprid	Pass	ND	1	0.0576	0.175
Fludioxonil	Pass	ND	1	0.0580	0.176	Thiamethoxam	Pass	ND	1	0.0387	0.117
Hexythiazox	Pass	ND	1	0.206	0.624	Trifloxystrobin	Pass	ND	1	0.0375	0.114

Mycotoxin Results

Pass

7/14/2020

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

Analyte	Pass/Fail	ug/kg	Limit	LOD ug/kg	LOQ ug/kg
Aflatoxin B1		ND		4.81	14.6
Aflatoxin B2		ND		4.41	13.4
Aflatoxin G1		ND		4.57	13.9
Aflatoxin G2		ND		6.61	20.0
Ochratoxin A	Pass	ND	<20	8.53	25.8
Total Aflatoxins	Pass	ND	<20	6.61	20.0

Heavy Metals Results

Pass

7/16/2020

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

Analyte	Pass/Fail	ug/g	Limit	LOD ug/g	LOQ ug/g
Arsenic	Pass	ND	10	0.00132	1.38
Cadmium	Pass	ND	4	0.000110	1.38
Lead	Pass	< LOQ	6	0.00160	1.38
Mercury	Pass	ND	2	0.00118	1.38

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	ug/g	Limit	LOD ug/g	LOQ ug/g	Analyte	Pass/Fail	ug/g	Limit	LOD ug/g	LOQ ug/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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