



# Steep Hill Hawaii™

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

## CERTIFICATE OF ANALYSIS

Sample Name: RegularStrength CBD Relief Cream  
Steep Hill ID: HI88054  
Batch ID: 772020  
State ID:  
Sample Type: Topical  
Date Received: 7/13/2020  
Date Reported: 7/15/2020

Customer: LIV Natural Products

### OVERALL BATCH SUMMARY: N/A

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



<b>Total THC</b>
Not Detected
Not Detected

<b>Total CBD</b>
0.119 %
1.19 mg/g

<b>Total Cannabinoids</b>
0.119 %
1.19 mg/g

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

Nelson Lazaga, Ph.D  
Laboratory Director  
Date: 7/15/2020

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

### Microbial Impurities Results

NT

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

Analyte	Pass/Fail	Result	Limit	LOQ
Aspergillus flavus	NT	NT	NT	NT
Aspergillus fumigatus	NT	NT	NT	NT
Aspergillus niger	NT	NT	NT	NT
Salmonella	NT	NT	NT	NT
Aerobic	NT	NT	NT	NT
Coliform	NT	NT	NT	NT
Enterobacteria	NT	NT	NT	NT
General E. coli	NT	NT	NT	NT
Yeast & Mold	NT	NT	NT	NT

### 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	LOD mg/g	LOQ mg/g
CBC	NT	NT	NT	NT
CBD	0.119	1.19	0.00981	0.0103
CBDA	ND	ND	0.00981	0.0177
CBDV	NT	NT	NT	NT
CBDVA	NT	NT	NT	NT
CBG	ND	ND	0.00981	0.0113
CBGA	NT	NT	NT	NT
CBN	ND	ND	0.00981	0.00981
THC	ND	ND	0.00981	0.00981
delta-8-THC	NT	NT	NT	NT
THCA	ND	ND	0.00981	0.0226
THCV	NT	NT	NT	NT
THCVA	NT	NT	NT	NT
Total	0.119	1.19		

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

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## CERTIFICATE OF ANALYSIS

### Residual Pesticides Results

NT

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	NT	NT	NT	NT	NT	Imazalil	NT	NT	NT	NT	NT
Acephate	NT	NT	NT	NT	NT	Imidacloprid	NT	NT	NT	NT	NT
Acequinocyl	NT	NT	NT	NT	NT	Kresoxim-methyl	NT	NT	NT	NT	NT
Acetamiprid	NT	NT	NT	NT	NT	Malathion	NT	NT	NT	NT	NT
Aldicarb	NT	NT	NT	NT	NT	Metalaxyl	NT	NT	NT	NT	NT
Azoxystrobin	NT	NT	NT	NT	NT	Methiocarb	NT	NT	NT	NT	NT
Bifenazate	NT	NT	NT	NT	NT	Methomyl	NT	NT	NT	NT	NT
Bifenthrin	NT	NT	NT	NT	NT	Methyl Parathion	NT	NT	NT	NT	NT
Boscalid	NT	NT	NT	NT	NT	MGK-264	NT	NT	NT	NT	NT
Carbaryl	NT	NT	NT	NT	NT	Myclobutanil	NT	NT	NT	NT	NT
Carbofuran	NT	NT	NT	NT	NT	Naled	NT	NT	NT	NT	NT
Chlorantraniliprole	NT	NT	NT	NT	NT	Oxamyl	NT	NT	NT	NT	NT
Chlorfenapyr	NT	NT	NT	NT	NT	Paclobutrazol	NT	NT	NT	NT	NT
Chlorpyrifos	NT	NT	NT	NT	NT	Permethrin	NT	NT	NT	NT	NT
Clofentezine	NT	NT	NT	NT	NT	Phosmet	NT	NT	NT	NT	NT
Cyfluthrin	NT	NT	NT	NT	NT	Piperonyl Butoxide	NT	NT	NT	NT	NT
Cypermethrin	NT	NT	NT	NT	NT	Prallethrin	NT	NT	NT	NT	NT
Diazinon	NT	NT	NT	NT	NT	Propiconazole	NT	NT	NT	NT	NT
Dichlorvos	NT	NT	NT	NT	NT	Propoxur	NT	NT	NT	NT	NT
Dimethoate	NT	NT	NT	NT	NT	Pyrethrins	NT	NT	NT	NT	NT
Ethoprophos	NT	NT	NT	NT	NT	Pyridaben	NT	NT	NT	NT	NT
Etofenprox	NT	NT	NT	NT	NT	Spinosad	NT	NT	NT	NT	NT
Etoazole	NT	NT	NT	NT	NT	Spiromesifen	NT	NT	NT	NT	NT
Fenpyroximate	NT	NT	NT	NT	NT	Spirotetramat	NT	NT	NT	NT	NT
Fipronil	NT	NT	NT	NT	NT	Tebuconazole	NT	NT	NT	NT	NT
Fonicamid	NT	NT	NT	NT	NT	Thiacloprid	NT	NT	NT	NT	NT
Fludioxonil	NT	NT	NT	NT	NT	Thiamethoxam	NT	NT	NT	NT	NT
Hexythiazox	NT	NT	NT	NT	NT	Trifloxystrobin	NT	NT	NT	NT	NT

### Mycotoxin Results

NT

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	NT	NT	NT	NT	NT
Aflatoxin B2	NT	NT	NT	NT	NT
Aflatoxin G1	NT	NT	NT	NT	NT
Aflatoxin G2	NT	NT	NT	NT	NT
Ochratoxin A	NT	NT	NT	NT	NT
Total Aflatoxins	NT	NT	NT	NT	NT

### Heavy Metals Results

NT

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	NT	NT	NT	NT	NT
Cadmium	NT	NT	NT	NT	NT
Lead	NT	NT	NT	NT	NT
Mercury	NT	NT	NT	NT	NT

### 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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