

Prepared for:

**Himiko Organics, LLC**

**HIOR-012-CT-1**

Batch ID or Lot Number:  
**DR010722ANT1**

Test:  
**Potency**

Reported:  
**1/18/22**

Location:  
4348 Waiialae AVE 924  
Honolulu, Hawaii 96816

Matrix:  
Concentrate

Test ID:  
T000186969

Started:  
1/17/22

USDA License:  
N/A

Status:  
N/A

Method:  
TM14 (HPLC-DAD): Potency - Broad  
Spectrum Analysis, 0.01% THC  
(Colorado Panel)

Received:  
01/12/2022 @ 10:56 AM

Sampler ID:  
N/A

## CANNABINOID PROFILE

Compound	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Notes
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.002	0.007	ND	ND	N/A
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.002	0.008	ND	ND	
Cannabidiolic acid (CBDA)	0.017	0.054	ND	ND	
Cannabidiol (CBD)	0.017	0.052	0.681	6.81	
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.016	0.052	ND	ND	
Cannabinolic Acid (CBNA)	0.009	0.030	ND	ND	
Cannabinol (CBN)	0.004	0.014	ND	ND	
Cannabigerolic acid (CBGA)	0.014	0.043	ND	ND	
Cannabigerol (CBG)	0.003	0.010	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.012	0.037	ND	ND	
Tetrahydrocannabivarin (THCV)	0.003	0.009	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.007	0.022	ND	ND	
Cannabidivarin (CBDV)	0.004	0.012	0.009*	0.09*	
Cannabichromenic Acid (CBCA)	0.005	0.017	ND	ND	
Cannabichromene (CBC)	0.006	0.018	ND	ND	
<b>Total Cannabinoids</b>			<b>0.690</b>	<b>6.90</b>	
Total Potential THC**			ND	ND	
Total Potential CBD**			0.681	6.81	



Jacob Miller  
18-Jan-2022  
12:38 PM



Karen Winternheimer  
18-Jan-22  
12:42 PM

PREPARED BY / DATE

APPROVED BY / DATE

### Definitions

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)

\* Indicates a value below the Limit of Quantitation (LOQ) and above the Limit of Detection (LOD).

\*\* Total Potential THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step.

Total THC = THC + (THCa \*(0.877)) and

Total CBD = CBD + (CBDA \*(0.877))

Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.

ND = None Detected (Defined by Dynamic Range of the method)

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Certificate #4329.02

Prepared for:

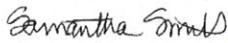
**Himiko Organics, LLC**

**HIOR-012-CT-1**

Batch ID or Lot Number: <b>DR010722ANT1</b>	Test: <b>Metals</b>	Reported: <b>1/17/22</b>	Location: 4348 Waiālae AVE 924 Honolulu, Hawaii 96816
Matrix: Unit Co	Test ID: T000186973	Started: 1/14/22	USDA License: N/A
Status: N/A	Method: TM19 (ICP-MS): Heavy Metals (Colorado Panel)	Received: 01/12/2022 @ 10:56 AM	Sampler ID: N/A

## HEAVY METALS DETERMINATION

Compound	Dynamic Range (ppm)	Result (ppm)	Notes
<b>Arsenic</b>	0.044 - 4.44	ND	
<b>Cadmium</b>	0.045 - 4.54	ND	
<b>Mercury</b>	0.045 - 4.50	ND	
<b>Lead</b>	0.049 - 4.95	ND	

  
 PREPARED BY / DATE

Sam Smith  
 17-Jan-22  
 1:43 PM



Daniel Weidensaul  
 17-Jan-22  
 1:52 PM

APPROVED BY / DATE

### Definitions

ND = None Detected (Defined by Dynamic Range of the method)

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Prepared for:

**Himiko Organics, LLC**
**HIOR-012-CT-1**

Batch ID or Lot Number: <b>DR010722ANT1</b>	Test: <b>Microbial Contaminants</b>	Reported: <b>1/17/22</b>	Location: 4348 Waiialae AVE 924 Honolulu, Hawaii 96816
Matrix: Finished Product	Test ID: T000186972	Started: 1/12/22	USDA License: N/A
Status: N/A	Methods: TM25 (qPCR) TM24, TM26, TM27(Culture Plating): Microbial (Colorado Panel)	Received: 01/12/2022 @ 10:56 AM	Sampler ID: N/A

**MICROBIAL CONTAMINANTS DETERMINATION**

Contaminant	Method	LOD	LLOQ	ULOQ	Result	Notes
<b>Total Aerobic Count*</b>	TM-26, Culture Plating	10 <sup>2</sup> CFU/g	10 <sup>3</sup> CFU/g	1.5x10 <sup>5</sup> CFU/g	None Detected	Free from visual mold, mildew, and foreign matter
<b>Total Coliforms*</b>	TM-27, Culture Plating	10 <sup>1</sup> CFU/g	10 <sup>2</sup> CFU/g	1.5x10 <sup>4</sup> CFU/g	None Detected	
<b>Total Yeast and Mold*</b>	TM-24, Culture Plating	10 <sup>1</sup> CFU/g	10 <sup>2</sup> CFU/g	1.5x10 <sup>4</sup> CFU/g	None Detected	
<b>E. coli (STEC)</b>	TM-25, PCR	1 CFU/25 g	NA	NA	Absent	
<b>Salmonella</b>	TM-25, PCR	1 CFU/25 g	NA	NA	Absent	



 Brett Hudson  
 1/15/2022  
 4:21:00 PM



 Brianne Maillot  
 1/17/2022  
 9:12:00 AM

PREPARED BY / DATE

APPROVED BY / DATE

**Definitions**

LOD = Limit of Detection | LLOQ = Lower Limit of Quantitation | ULOQ = Upper Limit of Quantitation

 CFU/g = Colony Forming Units per Gram | STEC = Shiga Toxin-Producing *E. coli*

\* Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form.

 Examples: 10<sup>2</sup> = 100 CFU  
 10<sup>3</sup> = 1,000 CFU  
 10<sup>4</sup> = 10,000 CFU  
 10<sup>5</sup> = 100,000 CFU

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Prepared for:

**Himiko Organics, LLC**
**HIOR-012-CT-1**

Batch ID or Lot Number: <b>DR010722ANT1</b>	Test: <b>Mycotoxins</b>	Reported: <b>1/18/22</b>	Location: 4348 Waialae AVE 924 Honolulu, Hawaii 96816
Matrix: Concentrate	Test ID: T000186974	Started: 1/17/22	USDA License: N/A
Status: N/A	Method: TM18 (UHPLC-QQQ LCMS/MS); Mycotoxins (Colorado Panel)	Received: 01/12/2022 @ 10:56 AM	Sampler ID: N/A

### MYCOTOXIN DETERMINATION

Compound	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	2.5 - 136	ND	N/A
Aflatoxin B1	1 - 34.1	ND	
Aflatoxin B2	1 - 34.4	ND	
Aflatoxin G1	1 - 34	ND	
Aflatoxin G2	1.1 - 33	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

  
 PREPARED BY / DATE  
 Sam Smith  
 18-Jan-22  
 1:14 PM

  
 APPROVED BY / DATE  
 Ryan Weems  
 18-Jan-22  
 1:19 PM

#### Definitions

ND = None Detected (Defined by Dynamic Range of the method)

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Prepared for:

**Himiko Organics, LLC**
**HIOR-012-CT-1**


Batch ID or Lot Number: <b>DR010722ANT1</b>	Test: <b>Pesticides</b>	Reported: <b>1/14/22</b>	Location: 4348 Waiialae AVE 924 Honolulu, Hawaii 96816
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Matrix: Concentrate	Test ID: T000186971	Started: 1/13/22	USDA License: N/A
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Status: N/A	Method: TM17(LC-QQQ LC MS/MS):	Received: 01/12/2022 @ 10:56 AM	Sampler ID: N/A
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## PESTICIDE DETERMINATION

Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)
Acephate	39	ND	Fenoxycarb	39	ND	Paclbutrazol	41	ND
Acetamiprid	40	ND	Fipronil	47	ND	Permethrin	263	ND
Avermectin	307	ND	Flonicamid	43	ND	Phosmet	42	ND
Azoxystrobin	43	ND	Fludioxonil	284	ND	Propfos	280	ND
Bifenazate	41	ND	Hexythiazox	41	ND	Propoxur	42	ND
Boscalid	49	ND	Imazalil	271	ND	Pyridaben	294	ND
Carbaryl	39	ND	Imidacloprid	43	ND	Spinosad A	34	ND
Carbofuran	42	ND	Kresoxim-methyl	150	ND	Spinosad D	50	ND
Chlorantraniliprole	46	ND	Malathion	281	ND	Spiromesifen	284	ND
Chlorpyrifos	500	ND	Metalaxyl	40	ND	Spirotetramat	281	ND
Clofentezine	281	ND	Methiocarb	45	ND	Spiroxamine 1	19	ND
Diazinon	269	ND	Methomyl	42	ND	Spiroxamine 2	25	ND
Dichlorvos	284	ND	MGK 264 1	176	ND	Tebuconazole	296	ND
Dimethoate	40	ND	MGK 264 2	108	ND	Thiacloprid	41	ND
E-Fenpyroximate	291	ND	Myclobutanil	40	ND	Thiamethoxam	40	ND
Etofenprox	43	ND	Naled	48	ND	Trifloxystrobin	43	ND
Etoazole	297	ND	Oxamyl	1500	ND			


 Karen Winterheimer  
 1/14/2022  
 10:52:00 AM

PREPARED BY / DATE


 Samantha Smith  
 Sam Smith  
 1/14/2022  
 10:59:00 AM

APPROVED BY / DATE

### Definitions

LOQ = Limit of Quantification  
 ppb = Parts per Billion

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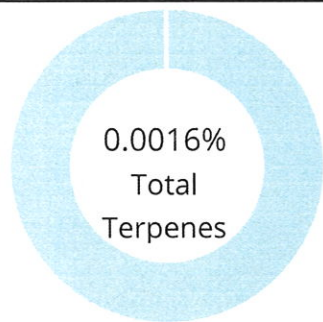


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HIOR-012-CT-1

<b>Batch ID:</b>	DR010722ANT1	<b>Test ID:</b>	T000186970
<b>Type:</b>	Concentrate	<b>Submitted:</b>	01/12/2022 @ 10:56 AM
<b>Test:</b>	Terpenes	<b>Started:</b>	1/12/2022
<b>Method:</b>	TM22 (GC-MS)	<b>Reported:</b>	1/14/2022

TERPENE PROFILE



Compound	%(w/w)	mg/g
(-)-alpha-Bisabolol	0.0000	0.000
Camphene	0.0000	0.000
delta-3-Carene	0.0000	0.000
beta-Caryophyllene	0.0016	0.016
(-)-Caryophyllene Oxide	0.0000	0.000
p-Cymene	0.0000	0.000
Eucalyptol	0.0000	0.000
Geraniol	0.0000	0.000
alpha-Humulene	0.0000	0.000
(-)-Isopulegol	0.0000	0.000
d-Limonene	0.0000	0.000
Linalool	0.0000	0.000
beta-Myrcene	0.0000	0.000
cis-Nerolidol	0.0000	0.000
trans-Nerolidol	0.0000	0.000
Ocimene	0.0000	0.000
beta-Ocimene	0.0000	0.000
alpha-Pinene	0.0000	0.000
(-)-beta-Pinene	0.0000	0.000
alpha-Terpinene	0.0000	0.000
gamma-Terpinene	0.0000	0.000
Terpinolene	0.0000	0.000
	<b>0.0016</b>	<b>0.016</b>

PREDOMINANT TERPENES

alpha-Pinene	0.0000
(-)-beta-Pinene	0.0000
beta-Myrcene	0.0000
delta-3-Carene	0.0000
alpha-Terpinene	0.0000
d-Limonene	0.0000
Linalool	0.0000
beta-Caryophyllene	0.0016
alpha-Humulene	0.0000
(-)-alpha-Bisabolol	0.0000

NOTES:

N/A

FINAL APPROVAL



Rvan Weems  
14-Jan-2022  
8:44 AM



Jacob Miller  
14-Jan-2022  
9:10 AM

PREPARED BY / DATE

APPROVED BY / DATE

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