

Prepared for:

**Himiko Organics, LLC**

**HIOR-012-CT-3**

Batch ID or Lot Number: <b>DR010722ANT2</b>	Test: <b>Potency</b>	Reported: <b>5/12/22</b>	Location: 4348 Waialae AVE 924 Honolulu, Hawaii 96816
Matrix: Concentrate	Test ID: T000186975	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	0.008	ND	ND	Amendment to certificate T000186975 issued on 18Jan2022, batch ID updated.
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.003	0.009	ND	ND	
Cannabidiolic acid (CBDA)	0.019	0.059	ND	ND	
Cannabidiol (CBD)	0.018	0.057	0.684	6.84	
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.018	0.056	ND	ND	
Cannabinolic Acid (CBNA)	0.010	0.032	ND	ND	
Cannabinol (CBN)	0.005	0.015	ND	ND	
Cannabigerolic acid (CBGA)	0.015	0.047	ND	ND	
Cannabigerol (CBG)	0.004	0.011	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.013	0.040	ND	ND	
Tetrahydrocannabivarin (THCV)	0.003	0.010	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.008	0.024	ND	ND	
Cannabidivarin (CBDV)	0.004	0.014	0.009*	0.09*	
Cannabichromenic Acid (CBCA)	0.006	0.018	ND	ND	
Cannabichromene (CBC)	0.006	0.020	ND	ND	
<b>Total Cannabinoids</b>			<b>0.693</b>	<b>6.93</b>	
Total Potential THC**			ND	ND	
Total Potential CBD**			0.684	6.84	



Ryan Weems  
12-May-2022  
01:55 PM



Daniel Weidensaul  
12-May-22  
2:05 PM

PREPARED BY / DATE

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### 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)

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC.



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Certificate #4329.02

Prepared for:

**Himiko Organics, LLC**
**HIOR-012-CT-3**

Batch ID or Lot Number: <b>DR010722ANT2</b>	Test: <b>Metals</b>	Reported: <b>5/12/22</b>	Location: 4348 Waiialae AVE 924 Honolulu, Hawaii 96816
Matrix: Unit Co	Test ID: T000186979	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
Arsenic	0.044 - 4.44	ND	Amendment to certificate T000186979 issued on 17Jan2022, batch ID updated.
Cadmium	0.045 - 4.54	ND	
Mercury	0.045 - 4.50	ND	
Lead	0.049 - 4.95	ND	



 Ryan Weems  
12-May-22  
1:52 PM

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 Daniel Weidensaul  
12-May-22  
2:12 PM

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**Definitions**

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

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Prepared for:

**Himiko Organics, LLC**
**HIOR-012-CT-3**

Batch ID or Lot Number: <b>DR010722ANT2</b>	Test: <b>Microbial Contaminants</b>	Reported: <b>5/12/22</b>	Location: 4348 Waiialae AVE 924 Honolulu, Hawaii 96816
Matrix: Finished Product	Test ID: T000186978	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	Amendment to report T000186978 for Batch ID correction. SCH 12May2022
<b>Salmonella</b>	TM-25, PCR	1 CFU/25 g	NA	NA	Absent	



 Sarah Henning  
 5/12/2022  
 10:47:00 AM



 Carly Bader  
 5/12/2022  
 12:43:00 PM

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**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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**HIOR-012-CT-3**

Batch ID or Lot Number: <b>DR010722ANT2</b>	Test: <b>Mycotoxins</b>	Reported: <b>5/12/22</b>	Location: 4348 Waiialae AVE 924 Honolulu, Hawaii 96816
Matrix: Concentrate	Test ID: T000186980	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 - 135.5	ND	Amendment to certificate T000186980 issued on 18Jan2022, batch ID updated.
Aflatoxin B1	1 - 34	ND	
Aflatoxin B2	1 - 34.3	ND	
Aflatoxin G1	1 - 33.9	ND	
Aflatoxin G2	1.1 - 32.9	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	



 Ryan Weems  
12-May-22  
1:30 PM

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 Daniel Weidensaul  
12-May-22  
2:18 PM

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### Definitions

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

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Prepared for:

**HIOR-012-CT-3**
**Himiko Organics, LLC**

Batch ID or Lot Number: <b>DR010722ANT2</b>	Test: <b>Pesticides</b>	Reported: <b>5/12/22</b>	Location: 4348 Waiialae AVE 924 Honolulu, Hawaii 96816
Matrix: Concentrate	Test ID: T000186977	Started: 1/13/22	USDA License: N/A
Status: N/A	Method: TM17(LC-QQQ LC MS/MS):	Received: 01/12/2022 @ 10:56 AM	Sampler ID: N/A

**PESTICIDE DETERMINATION**

Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)
Acephate	39	ND	Fenoxycarb	39	ND	Paclobutrazol	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	Propos	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			



 Ryan Weems  
5/12/2022  
1:48:00 PM



 Daniel Weidensaul  
5/12/2022  
2:21:00 PM

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**Definitions**

 LOQ = Limit of Quantification  
ppb = Parts per Billion

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Certificate #4329.02

HIOR-012-CT-3

Batch ID: DR010722ANT2

Test ID: T000186976

Type: Concentrate

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

Test: Terpenes

Started: 1/12/2022

Method: TM22 (GC-MS)

Reported: 5/12/2022

## 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	0.0017	0.017
(-)-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>0.0017</b>	<b>0.017</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	0.0017
alpha-Humulene	0.0000
(-)-alpha-Bisabolol	0.0000

## NOTES:

Amendment to certificate T000186976 issued on 14Jan2022, batch ID updated.

## FINAL APPROVAL



 Rvan Weems  
 12-May-2022  
 1:44 PM



 Daniel Weidensaul  
 12-May-2022  
 2:24 PM

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