



# Certificate of Analysis

Sample: DE10503004-001  
Harvest/Lot ID: JP041621SA1  
Metrc #: 1A4000D0003A8B9000001631  
Seed to Sale #1A4000D0003A8B9000001631  
Batch Date : N/A  
Batch#: N/A  
Sample Size Received: 1 gram  
Total Weight/Volume: N/A  
Retail Product Size: N/A gram  
Ordered : 04/28/21  
sampled : 04/28/21  
Completed: 05/11/21 Expires: 05/11/22  
Sampling Method: SOP-024

May 13, 2021 | Himiko Organics











License # 403H-103408  
4348 Waiialae Ave, Suite 924  
Honolulu, HI, 96816



**PASSED**  
Page 1 of 6

PRODUCT IMAGE SAFETY RESULTS



									
Pesticides <b>PASSED</b>	Heavy Metals <b>PASSED</b>	Microbials <b>PASSED</b>	Mycotoxins <b>PASSED</b>	Residuals Solvents <b>PASSED</b>	Filtration NOT TESTED	Water Activity NOT TESTED	Moisture NOT TESTED	Homogeneity NOT TESTED	Terpenes <b>TESTED</b>

CANNABINOID RESULTS



Total THC  
**0.000%**



Total CBD  
**3.708%**



Total Cannabinoids  
**3.874%**

	CBDV	CBDVA	CBG	CBD	CBDA	THCV	CBGA	CBN	EXO-THC	CBDO	D9-THC	D8-THC	CBL	THCVA	CBC	D10-THC	CBNA	THCA	CBCA	CBLA			
	0.165	ND	ND	3.708	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
	1.65	ND	ND	37.08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
LOD	0.00265237	0.001	0.00219044	2.8E-5	1.1E-5	0.00205806	0.00192419	1.0E-6	0.000237	0.0148	2.2E-5	0.00268886	7	0.00092180	0.00071737	8	0.00286194	0.0129	4	0.00091019	1.0E-5	0.00210199	0.00116619
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%

Cannabinoid Profile Test

Analyzed by 1253	Weight 0.9934g	Extraction date : 05/06/21 12:05:11	Extracted By : 1253
Analysis Method -SOP-020 (R15)	Reviewed On - 05/11/21 12:01:46	Batch Date : 05/06/21 09:54:41	
Analytical Batch -DE001856POT	Instrument Used : Agilent 1100 "Falcon" Running On :		

Reagent	Dilution	Consums. ID
043021.R11	40	24161320
043021.R12		9234640
050521.R17		00302923
		ROBB28597
		280674667
		12104-042CC-042

Full spectrum cannabinoid analysis utilizing High Performance Liquid Chromatography with DAD detection (HPLC-UV). Method SOP-022 (R13) for reporting. Lower limit of linearity for all cannabinoids is 1 mg/L.

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405R-00011 405-00008  
ISO Accreditation # 4331.01

  
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05/11/21  
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Email: info@himikoorganics.com  
License #: 403H-103408

Sample : DE10503004-001

Harvest/LOT ID: JP041621SA1

Batch# : N/A

Sampled : 04/28/21

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Sample Size Received : 1 gram

Total Weight/Volume : N/A

Completed : 05/11/21 Expires: 05/11/22

Sample Method : SOP-024

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## Terpenes

# TESTED

Terpenes	LOD(%)	mg/g	%	Result (%)	Terpenes	LOD(%)	mg/g	%	Result (%)
ALPHA-PINENE	0.002	0.663	0.066						
CAMPHENE	0.002	< 0.2	< 0.020						
BETA-PINENE	0.002	< 0.2	< 0.020						
MYRCENE	0.002	0.425	0.042						
DELTA-3-CARENE	0.002	< 0.2	< 0.020						
ALPHA-TERPINENE	0.002	0.238	0.023						
P-CYMENE	0.002	0.989	0.098						
LIMONENE	0.002	ND	ND						
EUCALYPTOL	0.002	17.753	1.775						
CIS-OCIMENE	0.002	0.813	0.081						
GAMMA-TERPINENE	0.002	0.493	0.049						
TERPINOLENE	0.002	< 0.2	< 0.020						
LINALOOL	0.002	7.230	0.723						
(-)-ISOPULEGOL	0.002	ND	ND						
BORNEOL	0.002	< 0.4	< 0.040						
MENTHOL	0.002	0.958	0.095						
ALPHA-TERPINEOL	0.002	ND	ND						
PULEGONE	0.002	ND	ND						
GERANIOL	0.002	6.320	0.632						
2-ETHYL-FENCHOL	0.002	0.908	0.090						
BETA-CARYOPHYLLENE	0.002	1.360	0.136						
HUMULENE	0.002	ND	ND						
BISABOLENE	0.002	ND	ND						
NEROLIDOL	0.002	ND	ND						
(-)-CARYOPHYLLENE OXIDE	0.002	0.202	0.020						
(-)-GUAIAOL	0.002	0.320	0.032						
(-)-ALPHA-BISABOLOL	0.002	ND	ND						
<b>Total (%)</b>		<b>3.867</b>							



## Terpenes

# TESTED

**Analyzed by** 7    **Weight** 0.9934g    **Extraction date** 05/06/21 03:05:52    **Extracted By** 8  
**Analysis Method -SOP-067 (R0)**  
**Analytical Batch -DE001858TER**    **Reviewed On - 05/07/21 15:46:31**  
**Instrument Used : GC 6890**  
**Running On :**  
**Batch Date : 05/06/21 15:32:36**

Reagent	Dilution	Consums. ID
050521.R17	40	24161320 0264898 00302923 280674667 213685

Terpenoid profile screening is performed by GC-FID with liquid injection via SOP-067 (R0) which can screen for 28 terpenes.

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License #: 403H-103408

Sample : DE10503004-001

Harvest/LOT ID: JP041621SA1

Batch# : N/A

Sampled : 04/28/21

Ordered : 04/28/21

Sample Size Received : 1 gram

Total Weight/Volume : N/A

Completed : 05/11/21 Expires: 05/11/22

Sample Method : SOP-024


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## Pesticides

# PASSED

Pesticides	LOD	Units	Action Level	Result
OTHER PESTICIDES	0.1	ppb	100	ND
AVERMECTINS	0.0271	ppb	70	ND
AZOXYSTROBIN	0.0149	ppb	20	ND
BIFENAZATE	0.0118	ppb	20	ND
ETOXAZOLE	0.00645	ppb	10	ND
IMAZALIL	0.0646	ppb	40	ND
IMIDACLOPRID	0.00748	ppb	20	ND
MALATHION	0.01108	ppb	50	ND
MYCLOBUTANIL	0.0135	ppb	40	ND
PERMETHRINS	0.0131	ppb	40	48.418
SPIROMESIFEN	0.0499	ppb	30	ND
SPIROTETRAMAT	0.0301	ppb	20	ND
SPINOSADS	0.0134	ppb	60	ND
TEBUCONAZOLE	0.0103	ppb	10	ND



### Pesticides

PASSED

Analyzed by	Weight	Extraction date	Extracted By
7	g	NA	NA
Analysis Method - SOP-060 (R5) , Analytical Batch - DE001843PES Instrument Used : Sciex 6500 Qtrap - Pesticides Running On : <span style="float: right;">Batch Date : 05/04/21 12:42:50</span>			
Reagent	Dilution	Consums. ID	
	25		

Pesticide screen is performed using LC-MS which can screen down to below single digit ppb concentrations for regulated Pesticides via SOP-060 (R5). \*

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License #: 403H-103408

Sample : DE10503004-001

Harvest/LOT ID: JP041621SA1

Batch# : N/A

Sampled : 04/28/21

Ordered : 04/28/21

Sample Size Received : 1 gram

Total Weight/Volume : N/A

Completed : 05/11/21 Expires: 05/11/22


Sample Method : SOP-024

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## Residual Solvents

PASSED



## Residual Solvents

PASSED

Solvent	LOD	Units	Action Level (PPM)	Pass/Fail	Result
PROPANE	4.21421	ppm	1000	PASS	ND
ETHYL ACETATE	2.79218	ppm	1000	PASS	ND
BUTANES	15.794	ppm	1000	PASS	ND
BENZENE	0.47491	ppm	2	PASS	ND
METHANOL	1.27868	ppm	600	PASS	<3.836
HEPTANE	3.25945	ppm	1000	PASS	ND
PENTANES	13.828	ppm	1000	PASS	ND
TOLUENE	2.10881	ppm	180	PASS	ND
XYLENES	7.115	ppm	430	PASS	ND
ETHANOL	2.70106	ppm	10000	PASS	ND
ACETONE	1.708	ppm	1000	PASS	<5.124
2-PROPANOL	1.58756	ppm	1000	PASS	ND
HEXANES	1.92798	ppm	60	PASS	ND

**Analyzed by** 666      **Weight** 0.1609g      **Extraction date** 05/10/21 11:05:03      **Extracted By** 666  
**Analysis Method -SOP-032 (R18)**  
**Analytical Batch -DE001867SOL**      **Reviewed On - 05/11/21 11:06:32**  
**Instrument Used : GC 5890**  
**Running On : 05/10/21 11:27:49**  
**Batch Date : 05/10/21 08:46:23**

Reagent	Dilution	Consums. ID
042121.R01	1	018C4-018D
050521.R11		24160453
		31726-2-1
		61564-106C6-106H

Residual solvents screening is performed using GC which can detect below single digit ppm concentrations. Currently we analyze for 15 Residual solvents.

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Sample : DE10503004-001

Harvest/LOT ID: JP041621SA1


Batch# : N/A  
Sampled : 04/28/21  
Ordered : 04/28/21

Sample Size Received : 1 gram  
Total Weight/Volume : N/A  
Completed : 05/11/21 Expires: 05/11/22  
Sample Method : SOP-024

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**Microbials**
**PASSED**



**Mycotoxins**
**PASSED**

Analyte	LOD	Result
TOTAL YEAST AND MOLD		not present in 1 gram.
SHIGA_TOXIN_PRODUCING_ESCHERICHIA_COLI_STEC		not present in 1 gram.
SALMONELLA_SPECIES		not present in 1 gram.

Analysis Method -SOP-061 (R2); SOP-062 (R2); SOP-063 (R1)  
Analytical Batch -DE001842MIC Batch Date : 05/04/21  
Instrument Used : Microbial - Full Panel  
Running On : 05/05/21

Analyzed by	Weight	Extraction date	Extracted By
6	2.64g	05/07/21	1473

Reagent	Reagent	Reagent	Reagent	Consums. ID	Consums. ID
042921.R11	041521.R07	042721.02	040121.19	0	NT10-1212
050421.R03	041421.R08	052620.04	040121.20	40898-021C4-021AI	20/08/30
050421.R02	041521.01	022221.15	042921.R12	MKCN2192	00019
022321.R13	031121.07	041421.R09	043021.R01	1	00100
041321.R05	100419.03	042821.01	050621.R03	12123-046CC-046	CH_2048639
041421.R12	040221.01	041321.02		2	

Microbiological testing for Fungal and Bacterial Identification via Polymerase Chain Reaction (PCR) methods and plating methods. If a pathogenic Escherichia Coli (STEC) or Salmonella is detected in 1g of a sample, the sample fails the microbiological-impurity testing.

Analyte	LOD	Units	Result	Action Level (PPM)
AFLATOXIN G2	0.303	ppb	ND	20
AFLATOXIN G1	0.180	ppb	ND	20
AFLATOXIN B2	0.0904	ppb	ND	20
AFLATOXIN B1	1.327	ppb	ND	20
OCHRATOXIN A+	0.0491	ppb	ND	20
AFLATOXINS		ppb	0.000	20

Analysis Method -SOP-060 (R5)  
Analytical Batch -DE001844MYC | Reviewed On - 05/05/21 14:30:58  
Instrument Used : Sciex 6500 Qtrap - Mycotoxins  
Running On :  
Batch Date : 05/04/21 12:43:47

Analyzed by	Weight	Extraction date	Extracted By
7	0.1548g	05/05/21 10:05:52	7

Aflatoxins B1, B2, G1, G2, and Ochratoxin A testing using LC-MS via SOP-060 (R5). Total Aflatoxins (Aflatoxin B1, B2, G1, G2) must be < 20µg/Kg. Ochratoxins must be < 5µg/Kg.



**Heavy Metals**
**PASSED**

Reagent	Dilution	Consums. ID
042321.01	50	018C4-018D
050421.R06		040CB-040D
050421.R05		12104-042CC-042
041521.R06		923C4-923AK
043021.R08		
050321.01		

Metal	LOD	Unit	Result	Action Level (PPM)
ARSENIC	0.0020	ppm	ND	1.5
CADMIUM	0.0016	ppm	ND	0.5
MERCURY	0.0035	ppm	ND	1
LEAD	0.0101	ppm	ND	1

Analyzed by	Weight	Extraction date	Extracted By
7	0.2246g	05/05/21 04:05:45	666

Analysis Method -SOP-050 (R5)  
Analytical Batch -DE001846HEA | Reviewed On - 05/07/21 08:28:55  
Instrument Used : Shimadzu 2030 ICP-MS  
Running On : 05/06/21 15:53:49  
Batch Date : 05/05/21 08:25:05

Heavy Metals screening is performed using ICP-MS (Inductively Coupled Plasma - Mass Spectrometer) which can screen to below single digit ppb concentrations for regulated heavy metals using method SOP-050 (R5). Sample preparation for Heavy Metals Analysis via SOP-050 (R5).

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**Total Weight/Volume : N/A**

**Completed : 05/11/21 Expires: 05/11/22**

**Sample Method : SOP-024**

**Page 6 of 6**

## COMMENTS

\* Cannabinoid - DE10503004-001POT

- 1 - d9-THC: LOD = 0.60 ppm, LOQ = 1.79 ppm
- 2 - CBD: LOD = 2.10 ppm, LOQ = 6.30 ppm

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