

Certificate of Analysis

May 27, 2021 | Hempire State Growers Inc

1637 Rte 9W Milton, NY, 12547, US





Kaycha Labs

hybrid Matrix: Derivative



Sample: KN10521013-003 Harvest/Lot ID: HW0920TC

Cultivation Facility: N/A Processing Facility: HEMP-P-000102

Seed to Sale #11111 Batch Date: 05/18/21

> Batch#: HSG0521CBDO Sample Size Received: 8 ml

Total Weight/Volume: 3 ml

Retail Product Size: 50 ml Ordered: 05/18/21

sampled: 05/18/21

Completed: 05/27/21 Expires: 05/27/22 Sampling Method: SOP.T.20.010

PASSED

Page 1 of 4

PRODUCT IMAGE

SAFETY RESULTS





Heavy Metals

PASSED





Mycotoxins

PASSED



Solvents

PASSED



PASSED



Water Activity





Moisture

NOT TESTED



MISC.

NOT TESTED

PASSED

ND

Extracted By

CANNABINOID RESULTS



Total THC 0.153%



Microbials

PASSED

Total CBD 7.305%

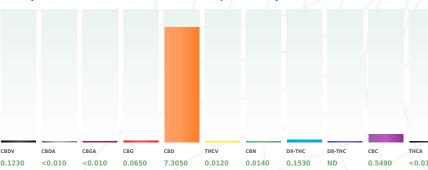


Analyzed By

Filth Weight

0.4267g

Total Cannabinoids 8.225%



0.1200

0.0010

	This include: and by-prod
THCA	-\/
<0.010	

0.0010

	Analyte	LOD	
	Filth and Foreign Material	0.3	J
	Analysis Method -SOP.T.40.013	Batch Date: 05/24/21 09:53:4	6
	Analytical Batch -KN000912FIL	Reviewed On - 05/24/21 10:10	19
	Instrument Used : E-AMS-138 Mi	croscope	
	This includes but is not limited to hair, insects and by-products. A SW-2T13 Stereo Microscop		ictur
-	\ /\ /		

NA

Extraction date

Cannabinoid Profile Test

< 0.010

0.0010

1.2300

0.0010

Analyzed by Weight Extraction date : Extracted By: Analyzed by Weight Extraction date:

13 0.2027g 05/25/2109:05-47

Analysis Method - Expanded Measurement of Uncertainty: Flower Matrix d9THC:12.7%, THCa: 9.5%, TOTAL THC 11. 1%. These uncertainties represent an expanded uncertainty expressed at approximately the 95% confidence level using coverage factor k=2 for a normal distribution.

73,0500

0.0010

Analytical Batch - KN000916POT Instrument Used: HPLC E-SHI-008

< 0.010

0.0010

14:59:10

Reviewed On -

0.1400

0.0010

1.5300

0.0010

ND

0.0010

5,4900

0.0010

Batch Date: 05/25/21 09:46:23

Reagent Consums, ID 120320.R02

0.6500

0.0010

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Sue Ferguson

Lab Director

State License # n/a ISO Accreditation # 17025:2017



05/27/21

Signature



Kaycha Labs

HSG CBD Oi

hybrid Matrix : Derivative



Certificate of Analysis

Sample: KN10521013-003 Harvest/LOT ID: HW0920TC

Batch#: HSG0521CBDO Sample Size Received: 8 ml Sampled: 05/18/21 Total Weight/Volume: 3 ml

Sample Method: SOP.T.20.010

PASSED

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1637 Rte 9W

Pesticides

PASSED

Pesticides	LOD	Units	Action Level	Resu
ABAMECTIN B1A	0.01	ppm	0.3	ND
ACEPHATE	0.01	ppm	3	ND
ACEQUINOCYL	0.01	ppm	2	ND
ACETAMIPRID	0.01	ppm	3	ND
ALDICARB	0.01	ppm	0.1	ND
AZOXYSTROBIN	0.01	ppm	3	ND
BIFENAZATE	0.01	ppm	3	ND
BIFENTHRIN	0.01	ppm	0.5	ND
BOSCALID	0.01	ppm	3	ND
CARBARYL	0.01	ppm	0.5	ND
CARBOFURAN	0.01	ppm	0.1	ND
CHLORANTRANILIPROLE	0.01	ppm	3	ND
CHLORMEQUAT CHLORIDE	0.01	ppm	3	ND
CHLORPYRIFOS	0.01	ppm	0.1	ND
CLOFENTEZINE	0.01	ppm	0.5	ND
COUMAPHOS	0.01	ppm	0.1	ND
CYPERMETHRIN	0.01	ppm	1	ND
DAMINOZIDE	0.01	ppm	0.1	ND
DIAZANON	0.01	ppm	0.2	ND
DICHLORVOS	0.01	ppm	0.1	ND
DIMETHOATE	0.01	ppm	0.1	ND
DIMETHOMORPH	0.01	ppm	3	ND
ETHOPROPHOS	0.01	ppm	0.1	ND
ETOFENPROX	0.01	ppm	0.1	ND
ETOXAZOLE	0.01	ppm	1.5	ND
FENHEXAMID	0.01	ppm	3	ND
FENOXYCARB	0.01	ppm	0.1	ND
FENPYROXIMATE	0.01	ppm	2	ND
FIPRONIL	0.01	ppm	0.1	ND
FLONICAMID	0.01	ppm	2	ND
FLUDIOXONIL	0.01	ppm	3	ND
HEXYTHIAZOX	0.01	ppm	2	ND
IMAZALIL	0.01	ppm	0.1	ND
IMIDACLOPRID	0.01	ppm	3	ND
KRESOXIM-METHYL	0.01	ppm	1	ND
MALATHION	0.01	ppm	2	ND
METALAXYL	0.01	ppm	3	ND
METHIOCARB	0.01	ppm	0.1	ND
METHOMYL	0.01	ppm	0.1	ND
MEVINPHOS	0.01	ppm	0.1	ND
MYCLOBUTANIL	0.01	ppm	3	ND
NALED	0.01	ppm	0.5	ND
OXAMYL	0.01	ppm	0.5	ND
PACLOBUTRAZOL	0.01	ppm	0.1	ND
PERMETHRINS	0.01	ppm	1	ND
PHOSMET	0.01	ppm	0.2	ND

Pesticides	LOD	Units	Action Level	Result
PIPERONYL BUTOXIDE	0.01	ppm	3	ND
PRALLETHRIN	0.01	ppm	0.4	ND
PROPICONAZOLE	0.01	ppm	1	ND
PROPOXUR	0.01	ppm	0.1	ND
PYRETHRINS	0.01	ppm	1	ND
PYRIDABEN	0.01	ppm	3	ND
SPINETORAM	0.01	ppm	3	ND
SPIROMESIFEN	0.01	ppm	3	ND
SPIROTETRAMAT	0.01	ppm	3	ND
SPIROXAMINE	0.01	ppm	0.1	ND
TEBUCONAZOLE	0.01	ppm	1	ND
THIACLOPRID	0.01	ppm	0.1	ND
THIAMETHOXAM	0.01	ppm	1	ND
TOTAL SPINOSAD	0.01	ppm	3	ND
TRIFLOXYSTROBIN	0.01	mag	3	ND

Analyzed by	Weight	Extraction date	Extracted B	y
143	0.5023g	05/24/21 10:05:43	143	
Analysis Method - SOP.7),		
Analytical Batch - KN00	0909PES		Reviewed On- 05/24/21 10:10:19	
Instrument Used : E-SHI Running On : 05/24/21 1			Batch Date: 05/24/21 08:46:04	
Reagent		Dilution	Consums. ID	
112420.02 042021.R01		5	200618634 947B9291.217	

Pesticide screen is performed using LC-MS which can screen down to below single digit ppb concentrations for regulated Pesticides. Currently we analyze for 57 Pesticides. (Method: SOP.T.30.060 Sample Preparation for Pesticides Analysis via LCMSMS and SOP.T40.060 Procedure for Pesticide Quantification Using LCMS). Analytes ISO pending. *Based on FL action limits. *

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Sue Ferguson

Lab Director

State License # n/a ISO Accreditation # 17025:2017 Sutinguan

05/27/21

Signature



Kaycha Labs

hybrid

Matrix : Derivative



Certificate of Analysis

PASSED

Sample: KN10521013-003 Harvest/LOT ID: HW0920TC

Batch#: HSG0521CBDO Sample Size Received: 8 ml Sampled: 05/18/21

Total Weight/Volume: 3 ml Ordered: 05/18/21

Completed: 05/27/21 Expires: 05/27/22 Sample Method: SOP.T.20.010

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1637 Rte 9W

Milton, NY, 12547, US

Telephone: 9145899512

Email: dianed@hsgcbd.com

Residual Solvents

PASSED



Residual Solvents



Solvent	LOD	Units	Action Level (PPM)	Pass/Fail	Result
PROPANE	500	ppm	2100	PASS	ND
BUTANES (N-BUTANE)	500	ppm	2000	PASS	ND
METHANOL	25	ppm	3000	PASS	ND
ETHYLENE OXIDE	0.5	ppm	5	PASS	ND
PENTANES (N-PENTANE)	75	ppm	5000	PASS	ND
ETHANOL	500	ppm	5000	PASS	ND
ETHYL ETHER	50	ppm	5000	PASS	ND
1.1-DICHLOROETHENE	0.8	ppm	8	PASS	ND
ACETONE	75	ppm	5000	PASS	ND
2-PROPANOL	50	ppm	500	PASS	ND
ACETONITRILE	6	ppm	410	PASS	ND
DICHLOROMETHANE	12.5	ppm	600	PASS	ND
N-HEXANE	25	ppm	290	PASS	ND
ETHYL ACETATE	40	ppm	5000	PASS	ND
CHLOROFORM	0.2	ppm	60	PASS	ND
BENZENE	0.1	ppm	2	PASS	ND
1,2-DICHLOROETHANE	0.2	ppm	5	PASS	ND
HEPTANE	500	ppm	5000	PASS	ND
TRICHLOROETHYLENE	2.5	ppm	80	PASS	ND
TOLUENE	15	ppm	890	PASS	ND
TOTAL XYLENES - M, P & O DIMETHYLBENZENE) - 15	ppm		PASS	ND



Analyzed by	Weight	Extraction date	Extracted By
138	0.02407g	05/24/21 09:05:55	138

Analysis Method -SOP.T.40.032

Analytical Batch - KN000906SOL Reviewed On - 05/25/21 18:34:29

Instrument Used: E-SHI-106 Residual Solvents

Running On: 05/24/21 15:05:35 Batch Date: 05/21/21 14:04:18

Reagent	Dilution	Consums. ID
		1065518282V1393

Residual solvents screening is performed using GC-MS which can detect below single digit ppm concentrations. Currently we analyze for 22 residual solvents. (Method: SOP.T.40.032 Residual Solvents Analysis via GC-MS). Analytes ISO pending. *Based on FL action limits.

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05/27/21

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Kaycha Labs

HSG CBD Oil hybrid

Matrix : Derivative



PASSED

Certificate of Analysis

Sample: KN10521013-003 Harvest/LOT ID: HW0920TC

Batch#: HSG0521CBD0 Sample Size Received: 8 ml

Sampled: 05/18/21 Ordered: 05/18/21 Total Weight/Volume : 3 ml

Completed: 05/27/21 **Expires**: 05/27/22

Sample Method: SOP.T.20.010

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1637 Rte 9W

Milton , NY, 12547, US

Telephone: 9145899512

Email: dianed@hsgcbd.com

Microbials

PASSED

Result

not present in 1 gram

not present in 1 gram.

not present in 1 gram.

not present in 1 gram.

not present in 1 gram

not present in 1 gram.

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0 7 0
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AFLATOXIN B1

OCHRATOXIN A+

TOTAL MYCOTOXINS

AF

ΑF

Mycotoxins

PASSED

Action Level (PPM)

Analyte	
ESCHERICHIA_COLI_SHIGELLA_SPP	
SALMONELLA_SPECIFIC_GENE	
ASPERGILLUS_FLAVUS	
ASPERGILLUS_FUMIGATUS	
ASPERGILLUS_NIGER	
ASPERGILLUS_TERREUS	

Analysis Method -SOP.T.40.043

Analytical Batch - KN000915MIC Batch Date: 05/24/21

Instrument Used: Micro E-HEW-069

Running On: 05/25/21

Ana	lyzed	by
142		

Weight 1.0027g Extraction date

LOD

Extracted By

Reagent

042321.01 041621.04

112020.04

Microbiological testing for Fungal and Bacterial Identification via Polymerase Chain Reaction (PCR) method consisting of sample DNA amplified via tandem Polymerase Chain Reaction (PCR) as a crude Jysate which avoids purification. (Method SOP.T.40.043) If a pathogenic Escherichia Coli, Salmonella, Aspergillus fumigatus, Aspergillus flavus, Aspergillus niger, or Aspergillus terreus is detected in 1g of a sample, the sample fails the microbiological-impurity testing.

nalyte	LOD	Units	Result	Act
FLATOXIN G2	0.002	ppm	ND	0.02
FLATOXIN G1	0.002	ppm	ND	0.02
FLATOXIN B2	0.002	ppm	ND	0.02

0.002

Analysis Method -SOP.T.30.060, SOP.T.40.060

Analytical Batch -KN000910MYC | Reviewed On - 05/25/21 09:50:56

ppm

ppm

ND

0.000

Instrument Used : E-SHI-125 Mycotoxins

Running On: 05/24/21 12:29:37 Batch Date: 05/24/21 08:46:23

Analyzed by

Weight 0.5023g **Extraction date** 05/24/21 12:05:08

Extracted By 143

0.02

0.02

Aflatoxins B1, B2, G1, G2, and Ochratoxins A testing using LC-MS. (Method: SOP.T.30.060 for Sample Preparation and SOP.T40.060 Procedure for Mycotoxins Quantification Using LCMS. LOQ 1.0 ppb). Total Aflatoxins (Aflotoxin B1, B2, G1, G2) must be $<20\mu g/Kg$. Ochratoxins must be $<20\mu g/Kg$. Analytes ISO pending. *Based on FL action limits.

Hg

Heavy Metals

PASSED

Reagent	Dilution	Consums. ID
052021.R19	50	7226/0030021
040521.R03		190428060
040521.R04		

Metal	LOD	Unit	Result	Action Level (PPM)
ARSENIC-AS	0.02	ppm	ND	1.5
CADMIUM-CD	0.02	ppm	ND	0.5
MERCURY-HG	0.02	ppm	ND	3
LEAD-PB	0.02	ppm	ND	0.5
Analyzed by	Weight	Extractio	n date	Extracted By
12	0.2589g	05/25/21 12	2:05:12	12

Analysis Method -SOP.T.40.050, SOP.T.30.052

Analytical Batch -KN000917HEA | Reviewed On - 05/27/21 13:24:21

Instrument Used : Metals ICP/MS

Running On:

Batch Date: 05/25/21 10:02:31

Heavy Metals screening is performed using ICP-MS (Inductively Coupled Plasma – Mass Spectrometer) which can screen down to below single digit ppb concentrations for regulated heavy metals using Method SOP.T.30.052 Sample Preparation for Heavy Metals Analysis via ICP-MS and SOP.T.40.050 Heavy Metals Analysis via ICP-MS. Analytes ISO Pending. *Based on FL action limits.

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