



Certificate of Analysis



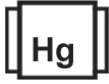








Sample: KN20727003-001
Harvest/Lot ID: DG03040
Batch#: DG03040
Seed to Sale# N/A
Batch Date: 07/21/22
Sample Size Received: 10 ml
Total Batch Size: N/A
Retail Product Size: 30 ml
Ordered : 07/22/22
Sampled : 07/22/22
Completed: 08/03/22
Sampling Method: N/A

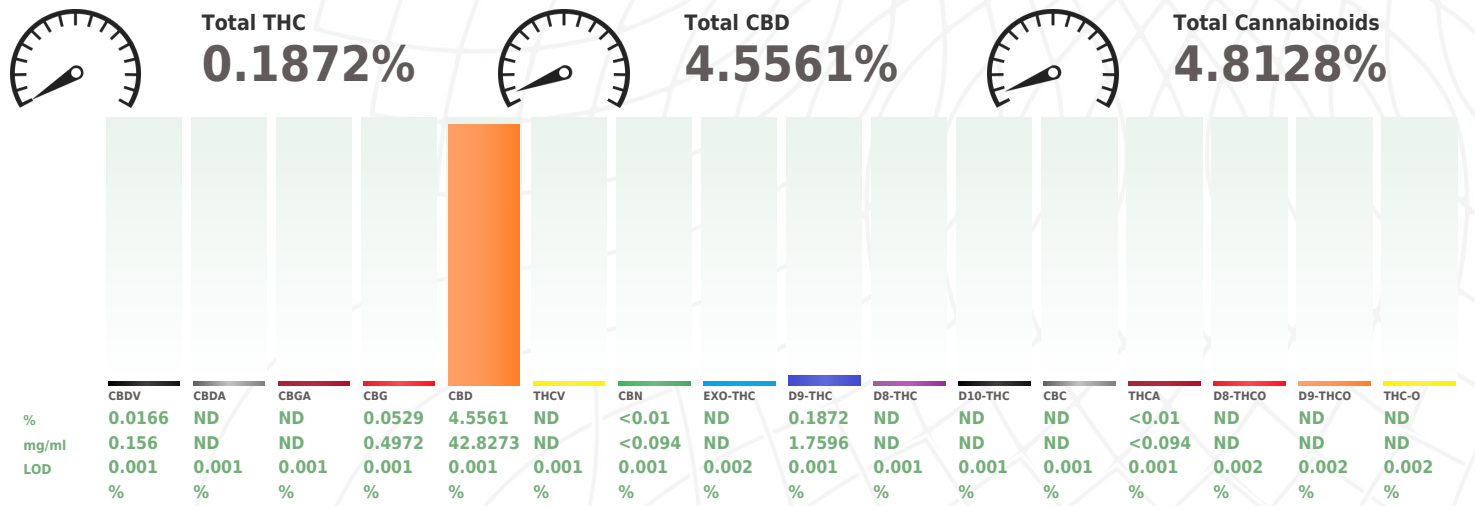
PASSED

Page 1 of 5

Aug 03, 2022 | Hudson Hemp
67 Pine Wood Rd
Hudson, NY, 12534, US

HUDSON HEMP
NEW YORK

PRODUCT IMAGE	SAFETY RESULTS								MISC.
	 Pesticides PASSED	 Heavy Metals PASSED	 Microbials PASSED	 Mycotoxins PASSED	 Residuals Solvents PASSED	 Filtration PASSED	 Water Activity NOT TESTED	 Moisture NOT TESTED	 Terpenes NOT TESTED
	Cannabinoid								PASSED



Analyzed by: 2692, 12 Weight: .2025g Extraction date: 07/27/22 13:18:23 Extracted by: 2692

Analysis Method : Expanded Measurement of Uncertainty: Flower Matrix d9-THC:12.7%, THCA: 9.5%, TOTAL THC 11.1%. These uncertainties represent an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor k=2 for a normal distribution.

Analytical Batch : KN002702POT Reviewed On : 08/03/22 17:50:29

Instrument Used : HPLC E-SHI-008 Batch Date : 07/27/22 08:21:16

Running on : N/A

Dilution : N/A

Reagent : 081321.R04; 071322.R01; 063022.R02


Consumables : 947B9291.271; 200331059

Pipette : E-GIL-011; E-GIL-013

Full spectrum cannabinoid analysis utilizing High Performance Liquid Chromatography with UV/PDA detection (HPLC-UV/PDA). (Method: SOP.T.30.031.TN for sample prep and Shimadzu High Sensitivity Method SOP.T.40.020 for analysis.). *Based on FL action limits.

This report shall not be reproduced, unless in its entirety, without written approval from Kaycha Labs. This report is an Kaycha Labs certification. The results relate only to the material or product analyzed. Test results are confidential unless explicitly waived otherwise. Void after 1 year from test end date. Cannabinoid content of batch material may vary depending on sampling error. IC=In-control QC parameter, NC=Non-controlled QC parameter, ND=Not Detected, NA=Not Analyzed, ppm=Parts Per Million, ppb=Parts Per Billion. Limit of Detection (LoD) and Limit Of Quantitation (LoQ) are terms used to describe the smallest concentration that can be reliably measured by an analytical procedure. RPD=Reproducibility of two measurements. Action Levels are State determined thresholds for human safety for consumption and/or inhalation. The result >99% are variable based on uncertainty of measurement (UM) for the analyte. The UM error is available from the lab upon request. The "Decision Rule" for the pass/fail does not include the UM. The limits are based on F.S. Rule 64-4.310.

Sue Ferguson
Lab Director
State License # n/a
ISO Accreditation # 17025:2017


Signature

08/03/22
Signed On



Certificate of Analysis

PASSED

Hudson Hemp

67 Pine Wood Rd
Hudson, NY, 12534, US
Telephone: (518) 937-7247
Email: dennis@hudsonhemp.com

Sample : KN20727003-001
Harvest/Lot ID: DG03040

Batch# : DG03040
Sampled : 07/22/22
Ordered : 07/22/22

Sample Size Received : 10 ml
Total Batch Size : N/A
Completed : 08/03/22 Expires: 08/03/23
Sample Method : SOP Client Method

Page 2 of 5



Pesticides

PASSED

Pesticide	LOD	Units	Action Level	Pass/Fail	Result	Pesticide	LOD	Units	Action Level	Pass/Fail	Result
ABAMECTIN B1A	0.01	ppm	0.3	PASS	ND	PIPERONYL BUTOXIDE	0.01	ppm	3	PASS	ND
ACEPHATE	0.01	ppm	3	PASS	ND	PRALLETHRIN	0.01	ppm	0.4	PASS	ND
ACEQUINOCYL	0.01	ppm	2	PASS	ND	PROPICONAZOLE	0.01	ppm	1	PASS	ND
ACETAMIPRID	0.01	ppm	3	PASS	ND	PROPOXUR	0.01	ppm	0.1	PASS	ND
ALDICARB	0.01	ppm	0.1	PASS	ND	PYRETHRINS	0.01	ppm	1	PASS	ND
AZOXYSTROBIN	0.01	ppm	3	PASS	ND	PYRIDABEN	0.01	ppm	3	PASS	ND
BIFENAZATE	0.01	ppm	3	PASS	ND	SPINETORAM	0.01	ppm	3	PASS	ND
BIFENTHRIN	0.01	ppm	0.5	PASS	ND	SPIROMESIFEN	0.01	ppm	3	PASS	ND
BOSCALID	0.01	ppm	3	PASS	ND	SPIROTETRAMAT	0.01	ppm	3	PASS	ND
CARBARYL	0.01	ppm	0.5	PASS	ND	SPIROXAMINE	0.01	ppm	0.1	PASS	ND
CARBOFURAN	0.01	ppm	0.1	PASS	ND	TEBUCONAZOLE	0.01	ppm	1	PASS	ND
CHLORANTRANILIPROLE	0.01	ppm	3	PASS	ND	THIACLOPRID	0.01	ppm	0.1	PASS	ND
CHLORMEQUAT CHLORIDE	0.01	ppm	3	PASS	ND	THIAMETHOXAM	0.01	ppm	1	PASS	ND
CHLORPYRIFOS	0.01	ppm	0.1	PASS	ND	TOTAL SPINOSAD	0.01	ppm	3	PASS	ND
CLOFENTEZINE	0.01	ppm	0.5	PASS	ND	TRIFLOXYSTROBIN	0.01	ppm	3	PASS	ND
COUMAPHOS	0.01	ppm	0.1	PASS	ND						
CYPERMETHRIN	0.01	ppm	1	PASS	ND						
DAMINOZIDE	0.01	ppm	0.1	PASS	ND						
DIAZANON	0.01	ppm	0.2	PASS	ND						
DICHLORVOS	0.01	ppm	0.1	PASS	ND						
DIMETHOATE	0.01	ppm	0.1	PASS	ND						
DIMETHOMORPH	0.01	ppm	3	PASS	ND						
ETHOPROPHOS	0.01	ppm	0.1	PASS	ND						
ETOFENPROX	0.01	ppm	0.1	PASS	ND						
ETOXAZOLE	0.01	ppm	1.5	PASS	ND						
FENHEXAMID	0.01	ppm	3	PASS	ND						
FENOXYCARB	0.01	ppm	0.1	PASS	ND						
FENPYROXIMATE	0.01	ppm	2	PASS	ND						
FIPRONIL	0.01	ppm	0.1	PASS	ND						
FLONICAMID	0.01	ppm	2	PASS	ND						
FLUDIOXONIL	0.01	ppm	3	PASS	ND						
HEXYTHIAZOX	0.01	ppm	2	PASS	ND						
IMAZALIL	0.01	ppm	0.1	PASS	ND						
IMIDACLOPRID	0.01	ppm	3	PASS	ND						
KRESOXIM-METHYL	0.01	ppm	1	PASS	ND						
MALATHION	0.01	ppm	2	PASS	ND						
METALAXYL	0.01	ppm	3	PASS	ND						
METHIOCARB	0.01	ppm	0.1	PASS	ND						
METHOMYL	0.01	ppm	0.1	PASS	ND						
MEVINPHOS	0.01	ppm	0.1	PASS	ND						
MYCLOBUTANIL	0.01	ppm	3	PASS	ND						
NALED	0.01	ppm	0.5	PASS	ND						
OXAMYL	0.01	ppm	0.5	PASS	ND						
PACLOBUTRAZOL	0.01	ppm	0.1	PASS	ND						
PERMETHRINS	0.01	ppm	1	PASS	ND						
PHOSMET	0.01	ppm	0.2	PASS	ND						

Analyzed by: 2368, 12	Weight: 7g	Extraction date: N/A	Extracted by: N/A
Analysis Method : SOP.T.30.060, SOP.T.40.060		Reviewed On : 08/03/22 17:21:51	
Analytical Batch : KN002731PES		Batch Date : 08/03/22 16:27:12	
Instrument Used : N/A			
Running on : N/A			
Dilution : N/A			
Reagent : N/A			
Consumables : N/A			
Pipette : N/A			

Pesticide analysis is performed using LC-MSMS which can quantify down to below single digit ppb concentrations for regulated Pesticides. Currently we analyze for 61 Pesticides. (Methods: SOP.T.30.065 Sample Preparation for Pesticides Analysis via LCMSMS and SOP.T40.065 Procedure for Pesticide Quantification Using LCMSMS). *Based on FL action limits.



Certificate of Analysis

PASSED
Hudson Hemp

 67 Pine Wood Rd
 Hudson, NY, 12534, US
 Telephone: (518) 937-7247
 Email: dennis@hudsonhemp.com

Sample : KN20727003-001
Harvest/Lot ID: DG03040
Batch# : DG03040
Sampled : 07/22/22
Ordered : 07/22/22
Sample Size Received : 10 ml
Total Batch Size : N/A
Completed : 08/03/22 Expires: 08/03/23
Sample Method : SOP Client Method

Page 3 of 5



Residual Solvents

PASSED

Solvents	LOD	Units	Action Level	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	2170	PASS	ND

Analyzed by:	Weight:	Extraction date:	Extracted by:
N/A	N/A	N/A	N/A

Analysis Method : SOP.T.40.032
Analytical Batch : KN002710SOL
Instrument Used : E-SHI-106 Residual Solvents
Running on : N/A

Reviewed On : 08/01/22 19:08:14
Batch Date : 07/28/22 10:13:47

Dilution : N/A
Reagent : N/A
Consumables : N/A
Pipette : N/A

Residual solvents analysis 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). *Based on FL action limits.



Certificate of Analysis

PASSED
Hudson Hemp

 67 Pine Wood Rd
 Hudson, NY, 12534, US
 Telephone: (518) 937-7247
 Email: dennis@hudsonhemp.com

Sample : KN20727003-001
Harvest/Lot ID: DG03040
Batch# : DG03040
Sampled : 07/22/22
Ordered : 07/22/22
Sample Size Received : 10 ml
Total Batch Size : N/A
Completed : 08/03/22 Expires: 08/03/23
Sample Method : SOP Client Method
Page 4 of 5

	Microbial	PASSED		Mycotoxins	PASSED
---	------------------	---------------	---	-------------------	---------------

Analyte	LOD	Units	Result	Pass / Fail	Action Level
ESCHERICHIA COLI SHIGELLA SPP			Not Present	PASS	
SALMONELLA SPECIFIC GENE			Not Present	PASS	
ASPERGILLUS FLAVUS			Not Present	PASS	
ASPERGILLUS FUMIGATUS			Not Present	PASS	
ASPERGILLUS NIGER			Not Present	PASS	
ASPERGILLUS TERREUS			Not Present	PASS	

Analyzed by: 1692, 2657, 12	Weight: 1.008g	Extraction date: 07/27/22 09:30:04	Extracted by: 1692
--------------------------------	-------------------	---------------------------------------	-----------------------

Analysis Method : SOP.T.40.043	Reviewed On : 08/03/22 17:50:51
Analytical Batch : KN002706MIC	Batch Date : 07/27/22 08:57:12
Instrument Used : Micro E-HEW-069	
Running on : N/A	

Dilution : N/A
Reagent : 070122.01; 062222.01; 122021.05
Consumables : P7530724
Pipette : N/A

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 lysate 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.

Analyte	LOD	Units	Result	Pass / Fail	Action Level
AFLATOXIN G2	0.002	ppm	ND	PASS	0.02
AFLATOXIN G1	0.002	ppm	ND	PASS	0.02
AFLATOXIN B2	0.002	ppm	ND	PASS	0.02
AFLATOXIN B1	0.002	ppm	ND	PASS	0.02
OCHRATOXIN A+	0.002	ppm	ND	PASS	0.02
TOTAL MYCOTOXINS	0.002	ppm	ND	PASS	0.02

Analyzed by: 12	Weight: 7g	Extraction date: N/A	Extracted by: N/A
--------------------	---------------	-------------------------	----------------------

Analysis Method : SOP.T.30.060, SOP.T.40.060	Reviewed On : 08/03/22 17:51:14
Analytical Batch : KN002695MYC	Batch Date : 07/25/22 18:06:30
Instrument Used : N/A	
Running on : N/A	

Dilution : N/A
Reagent : N/A
Consumables : N/A
Pipette : N/A

Aflatoxins B1, B2, G1, G2, and Ochratoxins A testing using LC-MS. (Method: SOP.T.30.060 for Sample Preparation and SOP.T40.065 Procedure for Mycotoxins Quantification Using LCMSMS. LOQ 5.0 ppb). *Based on FL action limits.

	Heavy Metals	PASSED
---	---------------------	---------------

Metal	LOD	Units	Result	Pass / Fail	Action Level
ARSENIC-AS	0.02	ppm	ND	PASS	1.5
CADMIUM-CD	0.02	ppm	ND	PASS	0.5
MERCURY-HG	0.02	ppm	ND	PASS	3
LEAD-PB	0.02	ppm	ND	PASS	0.5

Analyzed by: 138, 12	Weight: 0.2532g	Extraction date: 07/28/22 09:35:10	Extracted by: 138
-------------------------	--------------------	---------------------------------------	----------------------

Analysis Method : SOP.T.40.050, SOP.T.30.052	Reviewed On : 08/01/22 18:59:01
Analytical Batch : KN002707HEA	Batch Date : 07/27/22 11:17:30
Instrument Used : Metals ICP/MS	
Running on : N/A	

Dilution : 50
Reagent : 121421.03; 062022.R04; 032522.01; 040822.01; 071222.R13; 071122.R12
Consumables : 108779-06-102921; CFT415500
Pipette : E-VWR-116

Heavy Metals screening is performed using ICP-MS (Inductively Coupled Plasma - Mass Spectrometer) which can screen down to single digit ppb concentrations for regulated heavy metals using Method SOP.T.30.082 Sample Preparation for Heavy Metals Analysis via ICP-MS and SOP.T.40.082TN Heavy Metals Analysis via ICP-MS.



Certificate of Analysis

PASSED

Hudson Hemp

67 Pine Wood Rd
Hudson, NY, 12534, US
Telephone: (518) 937-7247
Email: dennis@hudsonhemp.com

Sample : KN20727003-001
Harvest/Lot ID: DG03040

Batch# : DG03040
Sampled : 07/22/22
Ordered : 07/22/22

Sample Size Received : 10 ml
Total Batch Size : N/A
Completed : 08/03/22 Expires: 08/03/23
Sample Method : SOP Client Method

Page 5 of 5

	Filth/Foreign Material	PASSED
---	-------------------------------	---------------

Analyte	LOD	Units	Result	P/F	Action Level
Filth and Foreign Material	1	detect/g	ND	PASS	3

Analyzed by: 1692	Weight: 0.5326g	Extraction date: 07/27/22 09:31:42	Extracted by: 1692
----------------------	--------------------	---------------------------------------	-----------------------

Analysis Method : SOP.T.30.074, SOP.T.40.074
Analytical Batch : KN002704FIL
Instrument Used : E-AMS-138 Microscope
Running on : N/A

Reviewed On : 07/27/22 10:46:14
Batch Date : 07/27/22 08:52:23

Dilution : N/A
Reagent : N/A
Consumables : N/A
Pipette : N/A


This includes but is not limited to hair, insects, feces, packaging contaminants, and manufacturing waste and by-products. A SW-2T13 Stereo Microscope is use for inspection.

This report shall not be reproduced, unless in its entirety, without written approval from Kaycha Labs. This report is an Kaycha Labs certification. The results relate only to the material or product analyzed. Test results are confidential unless explicitly waived otherwise. Void after 1 year from test end date. Cannabinoid content of batch material may vary depending on sampling error. IC=In-control QC parameter, NC=Non-controlled QC parameter, ND=Not Detected, NA=Not Analyzed, ppm=Parts Per Million, ppb=Parts Per Billion. Limit of Detection (LoD) and Limit Of Quantitation (LoQ) are terms used to describe the smallest concentration that can be reliably measured by an analytical procedure. RPD=Reproducibility of two measurements. Action Levels are State determined thresholds for human safety for consumption and/or inhalation. The result >99% are variable based on uncertainty of measurement (UM) for the analyte. The UM error is available from the lab upon request. The "Decision Rule" for the pass/fail does not include the UM. The limits are based on F.S. Rule 64-4.310.

Sue Ferguson

Lab Director

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



Signature

08/03/22

Signed On