



# Certificate of Analysis

Sample:KN10317004-001  
Harvest/Lot ID: 21-515  
Seed to Sale #N/A  
Batch Date :03/16/21  
Batch#: 005  
Sample Size Received: 20 gram  
Total Weight/Volume: N/A  
Retail Product Size: 1 ml  
Ordered : 03/16/21  
sampled : 03/16/21  
Completed: 03/19/21 Expires: 03/19/22  
Sampling Method: SOP Client Method

Mar 25, 2021 | Sir Hemp Co.

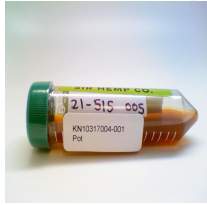
640 Clematis Street  
West Palm Beach, FL, 33402, US



**PASSED**

Page 1 of 4

PRODUCT IMAGE



SAFETY RESULTS



Pesticides  
**PASSED**



Heavy Metals  
**PASSED**



Microbials  
**PASSED**



Mycotoxins  
**PASSED**



Residuals  
Solvents  
**PASSED**



Filtration  
**PASSED**



Water Activity  
**NOT TESTED**



Moisture  
**NOT TESTED**



Terpenes  
**NOT TESTED**

MISC.

CANNABINOID RESULTS



**Total THC**  
**0.036%**  
TOTAL THC/Container :0.348 mg/g



**Total CBD**  
**12.630%**  
TOTAL CBD/Container :121.257 mg/g



**Total Cannabinoids**  
**13.915%**  
Total Cannabinoids/  
Container :133.593 mg/g

CBDV	CBDA	CBGA	CBG	CBD	THCV	CBN	D9-THC	D8-THC	CBC	THCA
0.071%	0.067%	ND	0.164%	12.571%	ND	0.427%	0.036%	0.017%	0.560%	ND
0.710mg/g	0.670mg/g	ND	1.640mg/g	125.710mg/g	ND	4.270mg/g	0.360mg/g	0.170mg/g	5.600mg/g	ND
LOD 0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
%	%	%	%	%	%	%	%	%	%	%

**Filtration PASSED**

Analyzed By	Weight	Extraction date	Extracted By
142	0.5510g	NA	NA
Analyte		LOD	Result
Filtration and Foreign Material		0.3	ND
Analysis Method -SOP.T.40.013	Batch Date : 03/22/21 16:48:07		
Analytical Batch -KN000613FIL	Reviewed On - 03/23/21 10:44:24		
Instrument Used : E-AMS-138 Microscope			

This includes but is not limited to hair, insects, feces, packaging contaminants, and manufacturing waste and by-products. A SW-213 Stereo Microscope is used for inspection.

Cannabinoid Profile Test

Analyzed by	Weight	Extraction date :	Extracted By :
113	0.2138g	03/17/21 03:03:28	946
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 -KN000589POT	Instrument Used : HPLC E-SHI-008	Reviewed On - 03/18/21 14:57:08	Batch Date : 03/17/21 11:03:43

Reagent	Dilution	Consums. ID
120320.R02 031721.R01 030321.R01	40	94789291.217 200331059

Full spectrum cannabinoid analysis utilizing High Performance Liquid Chromatography with UV detection (HPLC-UV). (Method: SOP.T.30.050 for sample prep and Shimadzu High Sensitivity Method SOP.T.40.020 for analysis.). \*Based on FL action limits.

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

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03/25/2021  
Signed On



# Certificate of Analysis

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Sir Hemp Co.

640 Clematis Street  
West Palm Beach, FL, 33402, US  
Telephone: 8008365820  
Email: admin@sirhempco.com

Sample : KN10317004-001  
Harvest/LOT ID: 21-515

Batch# : 005  
Sampled : 03/16/21  
Ordered : 03/16/21

Sample Size Received : 20 gram  
Total Weight/Volume : N/A  
Completed : 03/19/21 Expires: 03/19/22  
Sample Method : SOP Client Method


Page 2 of 4



## Pesticides

# PASSED

Pesticides	LOD	Units	Action Level	Result	Pesticides	LOD	Units	Action Level	Result
ABAMECTIN B1A	0.05	ppm	0.3	ND	PIPERONYL BUTOXIDE	0.05	ppm	3	ND
ACEPHATE	0.05	ppm	3	ND	PRALLETHRIN	0.05	ppm	0.4	ND
ACEQUINOCYL	0.05	ppm	2	ND	PROPICONAZOLE	0.05	ppm	1	ND
ACETAMIPRID	0.05	ppm	3	ND	PROPOXUR	0.05	ppm	0.1	ND
ALDICARB	0.05	ppm	0.1	ND	PYRETHRINS	0.05	ppm	1	ND
AZOXYSTROBIN	0.05	ppm	3	ND	PYRIDABEN	0.10	ppm	3	ND
BIFENAZATE	0.05	ppm	3	ND	SPINETORAM	0.05	ppm	3	ND
BIFENTHRIN	0.05	ppm	0.5	ND	SPIROMESIFEN	0.05	ppm	3	ND
BOSCALID	0.05	ppm	3	ND	SPIROTETRAMAT	0.05	ppm	3	ND
CARBARYL	0.05	ppm	0.5	ND	SPIROXAMINE	0.05	ppm	0.1	ND
CARBOFURAN	0.05	ppm	0.1	ND	TEBUCONAZOLE	0.05	ppm	1	ND
CHLORANTRANILIPROLE	0.05	ppm	3	ND	THIACLOPRID	0.05	ppm	0.1	ND
CHLORMEQUAT CHLORIDE	0.05	ppm	3	ND	THIAMETHOXAM	0.05	ppm	1	ND
CHLORPYRIFOS	0.05	ppm	0.1	ND	TOTAL SPINOSAD	0.02	ppm	3	ND
CLOFENTEZINE	0.10	ppm	0.5	ND	TRIFLOXYSTROBIN	0.05	ppm	3	ND
COUMAPHOS	0.05	ppm	0.1	ND					
CYPERMETHRIN	0.05	ppm	1	ND					
DAMINOZIDE	0.05	ppm	0.1	ND					
DIAZANON	0.05	ppm	0.2	ND					
DICHLORVOS	0.05	ppm	0.1	ND					
DIMETHOATE	0.05	ppm	0.1	ND					
DIMETHOMORPH	0.10	ppm	3	ND					
ETHOPROPHOS	0.05	ppm	0.1	ND					
ETOFENPROX	0.05	ppm	0.1	ND					
ETOXAZOLE	0.05	ppm	1.5	ND					
FENHEXAMID	0.05	ppm	3	ND					
FENOXYCARB	0.05	ppm	0.1	ND					
FENPYROXIMATE	0.05	ppm	2	ND					
FIPRONIL	0.05	ppm	0.1	ND					
FLONICAMID	0.05	ppm	2	ND					
FLUDIOXONIL	0.05	ppm	3	ND					
HEXYTHIAZOX	0.05	ppm	2	ND					
IMAZALIL	0.05	ppm	0.1	ND					
IMIDACLOPRID	0.05	ppm	3	ND					
KRESOXIM-METHYL	0.05	ppm	1	ND					
MALATHION	0.05	ppm	2	ND					
METALAXYL	0.05	ppm	3	ND					
METHIOCARB	0.05	ppm	0.1	ND					
METHOMYL	0.05	ppm	0.1	ND					
MEVINPHOS	0.05	ppm	0.1	ND					
MYCLOBUTANIL	0.05	ppm	3	ND					
NALED	0.05	ppm	0.5	ND					
OXAMYL	0.05	ppm	0.5	ND					
PACLOBUTRAZOL	0.05	ppm	0.1	ND					
PERMETHRINS	0.05	ppm	1	ND					
PHOSMET	0.05	ppm	0.2	ND					


**Pesticides**
**PASSED**

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<b>Analyzed by</b> 143	<b>Weight</b> 1.0122g	<b>Extraction date</b> 03/22/21 01:03:28	<b>Extracted By</b> 143
<b>Analysis Method</b> - SOP.T.30.060, SOP.T.40.060 , Analytical Batch - KN000608PES		<b>Reviewed On</b> - 03/23/21 10:44:24	
<b>Instrument Used</b> : E-SHI-125 Pesticides <b>Running On</b> : 03/22/21 13:42:23		<b>Batch Date</b> : 03/22/21 11:03:34	

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<b>Reagent</b> 023221.#03 023221.#11 023221.#29 023221.#30	<b>Dilution</b> 10	<b>Consums. ID</b> P7364369 00302193
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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.T.40.060 Procedure for Pesticide Quantification Using LCMS). Analytes ISO pending. \*Based on FL action limits. \*

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

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03/25/2021  
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# Certificate of Analysis

**PASSED**

Sir Hemp Co.

640 Clematis Street  
West Palm Beach, FL, 33402, US  
Telephone: 8008365820  
Email: admin@sirhempco.com

Sample : KN10317004-001  
Harvest/LOT ID: 21-515

Batch# : 005  
Sampled : 03/16/21  
Ordered : 03/16/21

Sample Size Received : 20 gram  
Total Weight/Volume : N/A  
Completed : 03/19/21 Expires: 03/19/22  
Sample Method : SOP Client Method

Page 3 of 4

## Residual Solvents

PASSED

## Residual Solvents

PASSED

Solvent	LOD	Units	Action Level (PPM)	Pass/Fail	Result
PROPANE	500	ppm	5000	PASS	ND
BUTANES (N-BUTANE)	500	ppm	5000	PASS	ND
METHANOL	25	ppm	3000	PASS	ND
ETHYLENE OXIDE	0.5	ppm	5	PASS	ND
PENTANES (N-PENTANE)	75	ppm	750	PASS	ND
ETHANOL	500	ppm	5000	PASS	ND
ETHYL ETHER	50	ppm	500	PASS	ND
1,1-DICHLOROETHENE	0.8	ppm	8	PASS	ND
ACETONE	75	ppm	750	PASS	ND
2-PROPANOL	50	ppm	500	PASS	ND
ACETONITRILE	6	ppm	60	PASS	ND
DICHLOROMETHANE	12.5	ppm	125	PASS	ND
N-HEXANE	25	ppm	250	PASS	ND
ETHYL ACETATE	40	ppm	400	PASS	ND
CHLOROFORM	0.2	ppm	2	PASS	ND
BENZENE	0.1	ppm	1	PASS	ND
1,2-DICHLOROETHANE	0.2	ppm	2	PASS	ND
HEPTANE	500	ppm	5000	PASS	ND
TRICHLOROETHYLENE	2.5	ppm	25	PASS	ND
TOLUENE	15	ppm	150	PASS	ND
XYLENES-M&P (1,3&1,4-DIMETHYLBENZENE)	10	ppm	150	PASS	ND
XYLENES-O (1,2-DIMETHYLBENZENE)	5	ppm	150	PASS	ND

**Analyzed by** 138      **Weight** 0.02569g      **Extraction date** 03/23/21 05:03:20      **Extracted By** 138  
**Analysis Method** -SOP.T.40.032  
**Analytical Batch** -KN000617SOL      **Reviewed On** - 03/24/21 16:28:50  
**Instrument Used** : E-SHI-106 Residual Solvents  
**Running On** : 03/24/21 08:55:30  
**Batch Date** : 03/23/21 14:12:27

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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640 Clematis Street  
West Palm Beach, FL, 33402, US  
Telephone: 8008365820  
Email: admin@sirhempco.com

Sample : KN10317004-001  
Harvest/LOT ID: 21-515

Batch# : 005  
Sampled : 03/16/21  
Ordered : 03/16/21

Sample Size Received : 20 gram  
Total Weight/Volume : N/A  
Completed : 03/19/21 Expires: 03/19/22  
Sample Method : SOP Client Method

Page 4 of 4



**Microbials**
PASSED



**Mycotoxins**
PASSED

Analyte	LOD	Result
ESCHERICHIA_COLI_SHIGELLA_SPP		not present in 1 gram.
SALMONELLA_SPECIFIC_GENE		not present in 1 gram.
ASPERGILLUS_FLAVUS		not present in 1 gram.
ASPERGILLUS_FUMIGATUS		not present in 1 gram.
ASPERGILLUS_NIGER		not present in 1 gram.
ASPERGILLUS_TERREUS		not present in 1 gram.

Analysis Method -SOP.T.40.043  
Analytical Batch -KN000611MIC Batch Date : 03/22/21  
Instrument Used :  
Running On : 03/22/21

Analyzed by	Weight	Extraction date	Extracted By
142	1.0258g	NA	NA

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	Action Level (PPM)
AFLATOXIN G2	0.005	ppm	ND	0.02
AFLATOXIN G1	0.005	ppm	ND	0.02
AFLATOXIN B2	0.005	ppm	ND	0.02
AFLATOXIN B1	0.005	ppm	ND	0.02
OCHRATOXIN A+	0.005	ppm	ND	0.02
TOTAL MYCOTOXINS		ppm	0.000	

Analysis Method -SOP.T.30.060, SOP.T.40.060  
Analytical Batch -KN000609MYC | Reviewed On - 03/24/21 10:11:24  
Instrument Used : E-SHI-125 Mycotoxins  
Running On : 03/22/21 13:42:55  
Batch Date : 03/22/21 11:13:10

Analyzed by	Weight	Extraction date	Extracted By
143	1.0122g	03/22/21 04:03:21	143

Aflatoxins B1, B2, G1, G2, and Ochratoxins A testing using LC-MS. (Method: SOP.T.30.060 for Sample Preparation and SOP.T.40.060 Procedure for Mycotoxins Quantification Using LCMS. LOQ 1.0 ppb). Total Aflatoxins (Aflatoxin B1, B2, G1, G2) must be <20µg/Kg. Ochratoxins must be <20µg/Kg. Analytes ISO pending. \*Based on FL action limits.



**Heavy Metals**
PASSED

Reagent	Consums. ID
030121.R30	7285/0030023
011521.R01	201015060
031621.02	
111220.R15	
123020.R01	
030121.R29	

Metal	LOD	Unit	Result	Action Level (PPM)
ARSENIC-AS	0.04	ppm	ND	1.5
CADMIUM-CD	0.04	ppm	ND	0.5
MERCURY-HG	0.04	ppm	ND	3
LEAD-PB	0.04	ppm	0.143	0.5

Analyzed by	Weight	Extraction date	Extracted By
12	0.2589g	03/23/21 09:03:49	138

Analysis Method -SOP.T.40.050, SOP.T.30.052  
Analytical Batch -KN000614HEA | Reviewed On - 03/23/21 17:30:54  
Instrument Used : Metals ICP/MS  
Running On :  
Batch Date : 03/23/21 09:22:04

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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