



# Certificate of Analysis

Sample: KN10303010-001

Harvest/Lot ID: 21-533

Seed to Sale #N/A

Batch Date : 03/02/21

Batch#: 001

Sample Size Received: 11 gram

Total Weight/Volume: N/A

Retail Product Size: 1 gram

Ordered : 03/02/21

sampled : 03/02/21

Completed: 03/09/21 Expires: 03/09/22

Sampling Method: SOP Client Method

Mar 09, 2021 | Sir Hemp Co.

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



**PASSED**

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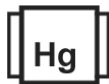
PRODUCT IMAGE



SAFETY RESULTS



Pesticides  
**PASSED**



Heavy Metals  
**PASSED**



Microbials  
**PASSED**



Mycotoxins  
**PASSED**



Residuals  
Solvents  
**PASSED**



Filtration  
**PASSED**



Water Activity  
**NOT TESTED**



Moisture  
**NOT TESTED**



Terpenes  
**TESTED**

MISC.

CANNABINOID RESULTS



Total THC  
**0.189%**



Total CBD  
**56.813%**



Total Cannabinoids  
**62.365%**



Filtration

**PASSED**

Analyzed By	Weight	Extraction date	Extracted By	Result
142	0.5229g	NA	NA	NA
Analyte			LOD	
Filtration and Foreign Material			0.3	ND
Analysis Method	-SOP.T.40.013	Batch Date	03/04/21 09:59:34	
Analytical Batch	-KN000518FIL	Reviewed On	03/04/21 13:12:14	
Instrument Used	: E-AM5-138 Microscope			

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

CBDV	CBDA	CBGA	CBG	CBD	THCV	CBN	D9-THC	D8-THC	CBC	THCA
0.316%	0.287%	0.019%	0.715%	56.561%	ND	1.857%	0.174%	0.090%	2.324%	0.017%
3.160 mg/g	2.870 mg/g	0.190 mg/g	7.150 mg/g	565.610 mg/g	ND	18.570 mg/g	1.740 mg/g	0.900 mg/g	23.240 mg/g	0.170 mg/g
LOD	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %

Cannabinoid Profile Test

Analyzed by	Weight	Extraction date :	Extracted By :
113	0.2434g	NA	NA
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.	Reviewed On - 03/08/21 13:21:12		
Analytical Batch	-KN000511POT	Instrument Used	: HPLC E-SHI-008
		Batch Date	: 03/03/21 14:12:42

Reagent	Dilution	Consums. ID
120320.R02	40	00298878
030321.R02		190909059
030321.R01		947.217

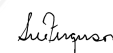
Full spectrum cannabinoid analysis utilizing High Performance Liquid Chromatography with UV detection (HPLC-UV). (Method: SOP.T.30.050 for sample prep and Shimadzu High Sensitivity Method SOP.T.40.020 for analysis.) \*Based on FL action limits.

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Sue Ferguson

Lab Director

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



Signature

03/09/2021

Signed On



# Certificate of Analysis

**PASSED**

Sir Hemp Co.

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

Sample : KN10303010-001  
Harvest/LOT ID: 21-533

Batch# : 001  
Sampled : 03/02/21  
Ordered : 03/02/21

Sample Size Received : 11 gram  
Total Weight/Volume : N/A  
Completed : 03/09/21 Expires: 03/09/22  
Sample Method : SOP Client Method

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## Terpenes

# TESTED

Terpenes	LOD (%)	mg/g	%	Result (%)	Terpenes	LOD(%)	mg/g	%	Result (%)
ALPHA-PHELLANDRENE	.02	ND	ND		ISOPULEGOL	.02	ND	ND	
FENCHONE	.02	ND	ND		CIS-NEROLIDOL	.02	ND	ND	
GAMMA-TERPINENE	.02	ND	ND		3-CARENE	.02	ND	ND	
GERANIOL	.02	ND	ND		FENCHYL ALCOHOL	.02	ND	ND	
GERANYL ACETATE	.02	ND	ND		HEXAHYDROTHYMOL	.02	ND	ND	
GUAJOL	.02	2.281	0.228		EUCALYPTOL	.02	ND	ND	
LIMONENE	.02	ND	ND		ISOBORNEOL	.02	ND	ND	
LINALOOL	.02	0.320	0.032						
NEROL	.02	ND	ND						
OCIMENE	.02	ND	ND						
FARNESENE	.02	ND	ND						
PULEGONE	.02	ND	ND						
SABINENE	.02	ND	ND						
SABINENE HYDRATE	.02	ND	ND						
TERPINEOL	.02	0.340	0.034						
TERPINOLENE	.02	ND	ND						
TRANS-CARYOPHYLLENE	.02	1.173	0.117						
TRANS-NEROLIDOL	.02	0.462	0.046						
VALENCENE	.02	ND	ND						
CEDROL	.02	ND	ND						
ALPHA-HUMULENE	.02	0.462	0.046						
ALPHA-PINENE	.02	ND	ND						
ALPHA-TERPINENE	.02	ND	ND						
BETA-MYRCENE	.02	ND	ND						
BETA-PINENE	.02	ND	ND						
BORNEOL	.04	ND	ND						
CAMPHENE	.02	ND	ND						
CAMPHOR	.04	ND	ND						
CARYOPHYLLENE OXIDE	.02	1.292	0.129						
ALPHA-CEDRENE	.02	ND	ND						
ALPHA-BISABOLOL	.02	5.526	0.552						
<b>Total (%)</b>		1.185							



## Terpenes

# TESTED

Analyzed by 138      Weight 0.98672g      Extraction date NA      Extracted By NA

Analysis Method -SOP.T.40.090  
Analytical Batch -KN000516TER      Reviewed On - 03/09/21 19:34:35  
Instrument Used : E-SHI-109 Terpenes  
Running On :  
Batch Date : 03/04/21 09:43:06

Reagent      Dilution      Consums. ID

Terpenoid profile screening is performed using GC-MS with Liquid Injection (Gas Chromatography - Mass Spectrometer) which can screen 38 terpenes using Method SOP.T.40.090 Terpenoid Analysis Via GC-MS. Analytes ISO Pending

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Lab Director  
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ISO Accreditation # 17025:2017

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Signature

03/09/2021  
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Ordered : 03/02/21

Sample Size Received : 11 gram  
Total Weight/Volume : N/A  
Completed : 03/09/21 Expires: 03/09/22  
Sample Method : SOP Client Method

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## 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**

<b>Analyzed by</b> 143	<b>Weight</b> 1.0303g	<b>Extraction date</b> 03/04/21 04:03:52	<b>Extracted By</b> 143
<b>Analysis Method</b> - SOP.T.30.060, SOP.T.40.060 ,		<b>Reviewed On</b> - 03/04/21 13:12:14	
<b>Analytical Batch</b> - KN000519PES		<b>Batch Date</b> : 03/04/21 10:51:10	
<b>Instrument Used</b> : E-SHI-125 Pesticides			
<b>Running On</b> :			
<b>Reagent</b>	<b>Dilution</b>	<b>Consums. ID</b>	
022221.A20 022221.A11 030121.A31 080221.A01	10	P7364369 00302193	
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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**Sue Ferguson**  
Lab Director  
State License # n/a  
ISO Accreditation #  
17025:2017

*Sue Ferguson*  
Signature

03/09/2021  
Signed On



# Certificate of Analysis

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

Sample : KN10303010-001  
Harvest/LOT ID: 21-533

Batch# : 001  
Sampled : 03/02/21  
Ordered : 03/02/21

Sample Size Received : 11 gram  
Total Weight/Volume : N/A  
Completed : 03/09/21 Expires: 03/09/22  
Sample Method : SOP Client Method

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## 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	<125.000
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** 0.02329g      **Extraction date** NA      **Extracted By** NA  
**Analysis Method** -SOP.T.40.032  
**Analytical Batch** -KN000535SOL      **Reviewed On** - 03/09/21 19:13:41  
**Instrument Used** : E-SHI-106 Residual Solvents  
**Running On** : 03/09/21 08:52:56  
**Batch Date** : 03/08/21 14:07:46

Reagent	Dilution	Consums. ID
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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**Sue Ferguson**  
Lab Director  
State License # n/a  
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*Sue Ferguson*  
Signature

03/09/2021  
Signed On



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Telephone: 8008365820  
Email: admin@sirhempco.com

Sample : KN10303010-001

Harvest/LOT ID: 21-533

Batch# : 001

Sampled : 03/02/21

Ordered : 03/02/21

Sample Size Received : 11 gram

Total Weight/Volume : N/A

Completed : 03/09/21 Expires: 03/09/22


Sample Method : SOP Client Method

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**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 -KN000522MIC Batch Date : 03/04/21  
Instrument Used : Micro E-HEW-069  
Running On : 03/04/21

Analyzed by	Weight	Extraction date	Extracted By
142	0.9979g	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 -KN000520MYC | Reviewed On - 03/05/21 14:59:35  
Instrument Used : E-SHI-125 Mycotoxins  
Running On :  
Batch Date : 03/04/21 11:27:22

Analyzed by	Weight	Extraction date	Extracted By
143	1.0303g	NA	NA

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	7226/0030021
011521.R01	201015060
020921.R14	
012221.R12	
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	ND	0.5

Analyzed by	Weight	Extraction date	Extracted By
12	10g	NA	NA

Analysis Method -SOP.T.40.050, SOP.T.30.052  
Analytical Batch -KN000526HEA | Reviewed On - 03/06/21 13:39:42  
Instrument Used : Metals ICP/MS  
Running On :  
Batch Date : 03/04/21 18:32:45

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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