



# Certificate of Analysis

Sample: KN10208009-002  
Harvest/Lot ID: NYS-HF-1013-LOT-L-2%  
Seed to Sale #N/A  
Batch Date :N/A  
Batch#: 1035-01-LOT-L-2%  
Sample Size Received: 100  
Retail Product Size: 100  
Ordered : 02/08/21  
sampled : 02/08/21  
Completed: 02/16/21 Expires: 02/16/22  
Sampling Method: SOP Client Method

Feb 19, 2021 | Plant Science Laboratories LLC.

649 Wyoming Ave.  
Buffalo, NY, 14215, US



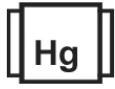
**PASSED**

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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  
**NOT TESTED**

MISC.

CANNABINOID RESULTS



Total THC  
**0.051%**

TOTAL THC/Container :51.990 mg



Total CBD  
**2.178%**

TOTAL CBD/Container :2178.370 mg



Total Cannabinoids  
**2.458%**

Total Cannabinoids/Container :2458.460 mg

CBDV	CBDA	CBGA	CBG	CBD	THCV	CBN	D9-THC	D8-THC	CBC	THCA
0.034%	ND	ND	0.023%	2.178%	ND	ND	0.051%	ND	0.170%	ND
0.340 mg/g	ND	ND	0.230 mg/g	21.780 mg/g	ND	ND	0.510 mg/g	ND	1.700 mg/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	Result
142	1.6021g	NA		NA
Analyte			LOD	Result
Filtration and Foreign Material			0.3	ND
Analysis Method -SOP.T.40.013	Batch Date : 02/18/21 13:21:53			
Analytical Batch -KN000445FIL	Reviewed On - 02/18/21 17:52:51			
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-2T13 Stereo Microscope is used for inspection.

Cannabinoid Profile Test

Analyzed by: 113 Weight: 0.2639g Extraction date: NA Extracted By: 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 - 02/12/21 16:55:52

Batch Date : 02/09/21 12:42:49

Analytical Batch -KN000391POT

Instrument Used : HPLC E-SHI-008

Reagent	Dilution	Consums. ID
120320.R02	40	00298878
020821.R08		190909059
020221.R02		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

02/19/2021

Signed On



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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**

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<b>Analyzed by</b> 143	<b>Weight</b> 1.015g	<b>Extraction date</b> 02/17/21 01:02:46	<b>Extracted By</b> 143
<b>Analysis Method</b> - SOP.T.30.060, SOP.T.40.060 , <b>Analytical Batch</b> - KN000433PES		<b>Reviewed On</b> - 02/18/21 17:52:51	
<b>Instrument Used</b> : E-SHI-125 Pesticides <b>Running On</b> : 02/17/21 15:46:23		<b>Batch Date</b> : 02/17/21 09:44:33	
<b>Reagent</b> 012721.A03 020121.A03 011621.A04 021621.A09	<b>Dilution</b> 10	<b>Consums. ID</b> P7364369 00299697	

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

*Sue Ferguson*  
Signature

02/19/2021  
Signed On



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Telephone: (716) 836-9520

Email: Paul@plantsciencelabs.com

Sample : KN10208009-002

Harvest/LOT ID: NYS-HF-1013-LOT-L-2%

Batch# : 1035-01-LOT-L-2%

Sampled : 02/08/21

Ordered : 02/08/21

Sample Size Received : 100

Completed : 02/16/21 Expires: 02/16/22

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	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** 0.029g  
**Extraction date** NA  
**Extracted By** NA  
**Analysis Method -SOP.T.40.032**  
**Analytical Batch -KN000443SOL**      **Reviewed On - 02/19/21 14:19:05**  
**Instrument Used : E-SHI-106 Residual Solvents**  
**Running On : 02/19/21 09:03:10**  
**Batch Date : 02/18/21 11:23:41**

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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Sample Method : SOP Client Method

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PASSED


PASSED

Analyte	LOD	Result	Analyte	LOD	Units	Result	Action Level (PPM)
ESCHERICHIA_COLI_SHIGELLA_SPP		not present in 1 gram.	AFLATOXIN G2	0.005	ppm	ND	0.02
SALMONELLA_SPECIFIC_GENE		not present in 1 gram.	AFLATOXIN G1	0.005	ppm	ND	0.02
ASPERGILLUS_FLAVUS		not present in 1 gram.	AFLATOXIN B2	0.005	ppm	ND	0.02
ASPERGILLUS_FUMIGATUS		not present in 1 gram.	AFLATOXIN B1	0.005	ppm	ND	0.02
ASPERGILLUS_NIGER		not present in 1 gram.	OCHRATOXIN A+	0.005	ppm	ND	0.02
ASPERGILLUS_TERREUS		not present in 1 gram.	TOTAL MYCOTOXINS		ppm	0.000	

Analysis Method -SOP.T.40.043  
Analytical Batch -KN000441MIC Batch Date : 02/17/21  
Instrument Used : Micro E-HEW-069  
Running On : 02/18/21

Analyzed by	Weight	Extraction date	Extracted By
142	0.9892g	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.

Analysis Method -SOP.T.30.060, SOP.T.40.060  
Analytical Batch -KN000434MYC | Reviewed On - 02/19/21 10:03:39  
Instrument Used : E-SHI-125 Mycotoxins  
Running On : 02/17/21 15:46:20  
Batch Date : 02/17/21 09:44:56

Analyzed by	Weight	Extraction date	Extracted By
143	1.015g	02/17/21 03:02:34	143

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 (Aflatoxin B1, B2, G1, G2) must be <20µg/Kg. Ochratoxins must be <20µg/Kg. Analytes ISO pending. \*Based on FL action limits.


PASSED

Reagent	Dilution	Consums. ID
122820.02	50	7226/0030021
020421.R05		201015060
011521.R01		
020921.R14		
123020.R01		
012221.R14		

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	0.2853g	NA	NA

Analysis Method -SOP.T.40.050, SOP.T.30.052  
Analytical Batch -KN000442HEA | Reviewed On - 02/19/21 11:51:08  
Instrument Used : Metals ICP/MS  
Running On :  
Batch Date : 02/17/21 17:06:30

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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