



Certificate of Analysis

Sample:KN20209005-003
Harvest/Lot ID: P-20070-09-C
Batch#: 2011-1-PWD
Seed to Sale# N/A
Batch Date: 01/11/22
Sample Size Received: 100 units
Total Weight/Volume: N/A
Retail Product Size: 0.63 mg
Ordered : 01/12/22
sampled : 01/12/22
Completed: 02/24/22 Expires: 02/24/23
Sampling Method: SOP Client Method

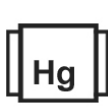
Feb 24, 2022 | Plant Science Laboratories LLC.

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
0.065%

Total THC/Capsule : 0.41 mg


Total CBD
4.633%

Total CBD/Capsule : 29.188 mg


Total Cannabinoids
4.914%

Total Cannabinoids/Capsule :
30.958 mg

	TOTAL THC	TOTAL CBD	TOTAL CBG	CBGV	CBDA	CBGA	CBG	CBD	THCV	CBN	EXO-THC	D9-THC	D8-THC	D10-THC	CBC	THCA	D8-THCA	D9-THCA	THC-O
%	0.065	4.633	0.03	0.014	ND	ND	0.03	4.633	<0.01	0.021	ND	0.065	ND	ND	0.151	ND	ND	ND	ND
mg/unit	0.409	29.187	0.189	0.088	ND	ND	0.189	29.187	<0.063	0.132	ND	0.409	ND	ND	0.951	ND	ND	ND	ND
LOD	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002
%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%

Filtration PASSED

Analyzed By	Weight	Extraction date	Extracted By
1492	0.513g	02/18/22	1692
Analysis	LOD	Pass/Fail	Result
Filtration and Foreign Material	0.3	Pass	ND
Analysis Method: <SOP> T-140-013	Batch Date : 02/17/22 13:21:56		
Analysis Batch: <K0001902711	Reviewed On : 02/18/22 14:46:52		
Instrument Used : <E-AP45-138 Microscope	Running On : 1		

This includes but is not limited to: test, results, fees, packaging, contaminants, and manufacturing waste and by-products. A SW-2113 Stereo Microscope is used for inspection.

Cannabinoid Profile Test

Analyzed by	Weight	Extraction date :	Extracted By :
113	0.2022g	02/02/22 09:07:47	113
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: <K00019030707 Instrument Used : HPLC E-SH-008 Running On : 1			
Reagent	Dilution	Consumables ID	
081321.R04 020222.R03 012722.R01	40	947.271, B0291.271 0030220	

Full spectrum cannabinoid analysis utilizing High Performance Liquid Chromatography with UV/PSA detection (HPLC-UV/PSA). Method: SOP.T.30.031.TN for sample prep and Shimadzu High Sensitivity Method SOP.T.40.031 for analysis. *Based on FL action limits.

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Sue Ferguson
Lab Director

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


Signature

02/24/22

Signed On



Certificate of Analysis

PASSED

Plant Science Laboratories LLC.

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 Buffalo, NY, 14215, US
 Telephone: (716) 836-9520
 Email: Paul@plantsciencelabs.com

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 Batch# : 2011-1-PWD
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 Completed : 02/24/22 Expires: 02/24/23
 Sample Method : SOP Client Method

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Pesticides

PASSED

Pesticides	LOD	Units	Action Level	Pass/Fail	Result	Pesticides	LOD	Units	Action Level	Pass/Fail	Result
ABAMECTIN B1A	0.01	ppm	0.3	PASS	ND	PIPERONYL BUTOXIDE	0.01	ppm	3	PASS	0.126
ACEPHATE	0.01	ppm	3	PASS	ND	PRALLETHRIN	0.01	ppm	0.4	PASS	<0.05
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
CLOFENTHEZINE	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						
NALEB	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						



Pesticides

PASSED

Analyzed by 1	Weight 0.7378g	Extraction date 02/22/22 10:02:26	Extracted By 143
Analysis Method - SOP.T.30.060, SOP.T.40.060, Analytical Batch - KN001994PES			Reviewed On - 02/18/22 14:46:52
Instrument Used : E-SHI-125 Pesticides Running On : 02/22/22 10:39:04			Batch Date : 02/22/22 09:00:47
Reagent 020322.R13 011822.R09 021722.R02 021722.R01 020922.R08 110521.03	Dilution 10	Consumables ID 210419634 947.271	
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. *			



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 Harvest/Lot ID: P-20070-09-C

 Batch# : 2011-1-PWD
 Sampled : 01/12/22
 Ordered : 01/12/22

 Sample Size Received : 100 units
 Total Weight/Volume : N/A
 Completed : 02/24/22 Expires: 02/24/23
 Sample Method : SOP Client Method

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Residual Solvents

PASSED

Solvent	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	31.376
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



Residual Solvents

PASSED

Analyzed by 1	Weight 0.02247g	Extraction date 02/23/22 10:02:53	Extracted By 138
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Analysis Method -SOP.T.40.032

Analytical Batch -KN001991SOL

Instrument Used : E-SHI-106 Residual Solvents

Running On :

Batch Date : 02/21/22 11:50:29

Reviewed On - 02/23/22 11:09:30

Reagent	Dilution	Consumables ID
1		R2017.099 G201.120

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 : KN20209005-003
 Harvest/Lot ID: P-20070-09-C

 Batch# : 2011-1-PWD
 Sampled : 01/12/22
 Ordered : 01/12/22

 Sample Size Received : 100 units
 Total Weight/Volume : N/A
 Completed : 02/24/22 Expires: 02/24/23
 Sample Method : SOP Client Method

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	Microbials	PASSED		Mycotoxins	PASSED
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Analyte	LOD	Result	Pass / Fail	Analyte	LOD	Units	Result	Pass / Fail	Action Level
ESCHERICHIA COLI SHIGELLA SPP		not present in 1 gram.	PASS	AFLATOXIN G2	0.002	ppm	ND	PASS	0.02
SALMONELLA SPECIFIC GENE		not present in 1 gram.	PASS	AFLATOXIN G1	0.002	ppm	ND	PASS	0.02
ASPERGILLUS FLAVUS		not present in 1 gram.	PASS	AFLATOXIN B2	0.002	ppm	ND	PASS	0.02
ASPERGILLUS FUMIGATUS		not present in 1 gram.	PASS	AFLATOXIN B1	0.002	ppm	ND	PASS	0.02
ASPERGILLUS NIGER		not present in 1 gram.	PASS	OCHRATOXIN A+	0.002	ppm	ND	PASS	0.02
ASPERGILLUS TERREUS		not present in 1 gram.	PASS	TOTAL MYCOTOXINS	0.002	ppm	ND	PASS	

Analysis Method -SOP.T.40.043

Analytical Batch -KN001986MIC Batch Date : 02/18/22 09:52:59

Instrument Used : Micro E-HEW-069

Running On :

Analyzed by	Weight	Extraction date	Extracted By
1692	1.0137g	02/18/22 02:02:50	1692

Reagent	Dilution
030121.01	1
122921.02	
121521.06	
030421.10	

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 -KN001995MYC | Reviewed On - 02/23/22 09:21:58

Instrument Used : E-SHI-125 Mycotoxins

Running On : 02/22/22 10:38:54 | Batch Date : 02/22/22 09:02:10

Analyzed by	Weight	Extraction date	Extracted By
143	0.7378g	02/22/22 10:02:11	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
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Metal	LOD	Unit	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	Weight	Extraction date	Extracted By
1	45g	NA	NA

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

Analytical Batch -KN001992HEA | Reviewed On - 02/22/22 18:06:41

Instrument Used : Metals ICP/MS

Running On : | Batch Date : 02/21/22 16:15:23

Reagent	Dilution	Consums. ID
121421.03	1	107702-05-081520
011022.R08		12235-110CD-110C
020422.R07		
011022.R07		

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.

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Sue Ferguson
 Lab Director

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 Signature

02/24/22

Signed On