



# Certificate of Analysis

Dec 13, 2021 | Plant Science Laboratories LLC.

649 Wyoming Ave.  
Buffalo, NY, 14215, US



Sample:KN11026010-001

Harvest/Lot ID: P-12590-09

Batch#: 1292-01--BLD-DG-4%

Seed to Sale# N/A

Batch Date: 09/16/21

Sample Size Received: 50 gram

Total Weight/Volume: N/A

Retail Product Size: 50 gram

Ordered : 10/19/21

sampled : 10/19/21

Completed: 12/13/21 Expires: 12/13/22

Sampling Method: SOP Client Method

**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**

## CANNABINOID RESULTS



Total CBG  
**4.085%**



Total CBD  
**4.472%**



Total Cannabinoids  
**9.064%**

	CBDV	CBD	CBGA	CBG	CBD	THCV	CBN	EXO-THC	D9-THC	D8-THC	D10-THC	CBC	THCA	D8-THCO	D9-THCO
%	0.015	ND	<0.01	4.085	4.472	0.012	0.027	0.013	0.114	<0.01	ND	0.326	<0.01	ND	ND
mg/g	0.15	ND	<0.1	40.85	44.72	0.12	0.27	0.13	1.14	<0.1	ND	3.26	<0.1	ND	ND
LOD	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
%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%

Filtration	PASSED
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Analyzed By	Weight	Extraction date	Extracted By
1692	0.6396g	12/07/21	1692
Analyte	LOD	Result	
Filtration and Foreign Material	0.3	ND	
Analysis Method -SOP.T.40.013	Batch Date : 12/07/21 08:50:24		
Analytical Batch -KN001659FIL	Reviewed On - 12/07/21 09:20:22		
Instrument Used : E-AMS-138 Microscope			
Running On :			

This includes but is not limited to hair, insects, feces, 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	0.203g	10/27/21 09:30:22	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 -KN001482POT Instrument Used : HPLC E-SHI-008 Running On :			
Reagent	Dilution	Consumers. ID	
081321.R04	40	94789291.217	
102521.R05		0030220	
101321.R01			

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.

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

*Sue Ferguson*  
Signature

12/13/21

Signed On



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 Telephone: (716) 836-9520  
 Email: Paul@plantsciencelabs.com

 Sample : KN11026010-001  
 Harvest/LOT ID: P-12590-09

 Batch# : 1292-01--BLD-  
 DG-4%

 Sampled : 10/19/21  
 Ordered : 10/19/21

Sample Size Received : 50 gram

Total Weight/Volume : N/A

Completed : 12/13/21 Expires: 12/13/22

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	0.01	ppm	0.3	ND	PIPERONYL BUTOXIDE	0.01	ppm	3	ND
ACEPHATE	0.01	ppm	3	ND	PRALLETHRIN	0.01	ppm	0.4	<0.05
ACEQUINOCL	0.01	ppm	2	ND	PROPICONAZOLE	0.01	ppm	1	ND
ACETAMIPRID	0.01	ppm	3	ND	PROPOXUR	0.01	ppm	0.1	ND
ALDICARB	0.01	ppm	0.1	ND	PYRETHRINS	0.01	ppm	1	ND
AZOXYSTROBIN	0.01	ppm	3	ND	PYRIDABEN	0.01	ppm	3	ND
BIFENAZATE	0.01	ppm	3	ND	SPINETORAM	0.01	ppm	3	ND
BIFENTHRIN	0.01	ppm	0.5	ND	SPIROMESIFEN	0.01	ppm	3	ND
BOSCALID	0.01	ppm	3	ND	SPIROTETRAMAT	0.01	ppm	3	ND
CARBARYL	0.01	ppm	0.5	ND	SPIROXAMINE	0.01	ppm	0.1	ND
CARBOFURAN	0.01	ppm	0.1	ND	TEBUCONAZOLE	0.01	ppm	1	ND
CHLORANTRANILIPROLE	0.01	ppm	3	ND	THIACLOPRID	0.01	ppm	0.1	ND
CHLORMEQUAT CHLORIDE	0.01	ppm	3	ND	THIAMETHOXAM	0.01	ppm	1	ND
CHLORPYRIFOS	0.01	ppm	0.1	ND	TOTAL SPINOSAD	0.01	ppm	3	ND
CLOFENTEZINE	0.01	ppm	0.5	ND	TRIFLOXYSTROBIN	0.01	ppm	3	ND
COUMAPHOS	0.01	ppm	0.1	ND					
CYPERMETHRIN	0.01	ppm	1	ND					
DAMINOZIDE	0.01	ppm	0.1	ND					
DIAZANON	0.01	ppm	0.2	ND					
DICHLORVOS	0.01	ppm	0.1	ND					
DIMETHOATE	0.01	ppm	0.1	ND					
DIMETHOMORPH	0.01	ppm	3	ND					
ETHOPROPHOS	0.01	ppm	0.1	ND					
ETOFENPROX	0.01	ppm	0.1	ND					
ETOXAZOLE	0.01	ppm	1.5	ND					
FENHEXAMID	0.01	ppm	3	ND					
FENOXYCARB	0.01	ppm	0.1	ND					
FENPYROXIMATE	0.01	ppm	2	ND					
FIPRONIL	0.01	ppm	0.1	ND					
FLONICAMID	0.01	ppm	2	ND					
FLUDIOXONIL	0.01	ppm	3	ND					
HEXYTHIAZOX	0.01	ppm	2	ND					
IMAZALIL	0.01	ppm	0.1	ND					
IMIDACLOPRID	0.01	ppm	3	ND					
KRESOXIM-METHYL	0.01	ppm	1	ND					
MALATHION	0.01	ppm	2	ND					
METALAXYL	0.01	ppm	3	ND					
METHIOCARB	0.01	ppm	0.1	ND					
METHOMYL	0.01	ppm	0.1	ND					
MEVINPHOS	0.01	ppm	0.1	ND					
MYCLOBUTANIL	0.01	ppm	3	ND					
NALED	0.01	ppm	0.5	ND					
OXAMYL	0.01	ppm	0.5	ND					
PACLOBUTRAZOL	0.01	ppm	0.1	ND					
PERMETHRINS	0.01	ppm	1	ND					
PHOSMET	0.01	ppm	0.2	ND					



## Pesticides

**PASSED**

 Analyzed by  
**143**

 Weight  
 0.5062g

 Extraction date  
 12/06/21 05:12:43

 Extracted By  
 143

 Analysis Method - SOP.T.30.060, SOP.T.40.060,  
 Analytical Batch - KN001655PES

 Reviewed On- 12/07/21  
 09:20:22

 Instrument Used : E-SHI-125 Pesticides  
 Running On : 12/06/21 17:18:14

Batch Date : 12/06/21 16:41:51

### Reagent

 110021.R03  
 000021.R03  
 111521.R03  
 112221.R03  
 112221.R04

 Dilution  
 10

 Consums. ID  
 200618634  
 947.271

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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**Email:** Paul@plantsciencelabs.com

**Sample :** KN11026010-001  
**Harvest/LOT ID:** P-12590-09

**Batch# :** 1292-01--BLD-DG-4%

**Sampled :** 10/19/21  
**Ordered :** 10/19/21

**Sample Size Received :** 50 gram

**Total Weight/Volume :** N/A

**Completed :** 12/13/21 **Expires:** 12/13/22

**Sample Method :** SOP Client Method

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	<b>Residual Solvents</b>	<b>PASSED</b>
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	<b>Residual Solvents</b>	<b>PASSED</b>
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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	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	15	ppm	2170	PASS	ND
- DIMETHYLBENZENE					

**Analyzed by** 138    **Weight** 0.02131g    **Extraction date** 12/07/21 09:12:38    **Extracted By** 138  
**Analysis Method** -SOP.T.40.032  
**Analytical Batch** -KN001647SOL    **Reviewed On** - 12/08/21 11:06:04  
**Instrument Used** : E-SHI-106 Residual Solvents  
**Running On** : 12/06/21 17:41:32  
**Batch Date** : 12/06/21 09:08:57

Reagent	Dilution	Consums. ID
	1	R2017.062 G201-062

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 : KN11026010-001**  
**Harvest/LOT ID: P-12590-09**
**Batch# :** 1292-01--BLD-DG-4%

**Sampled :** 10/19/21

**Ordered :** 10/19/21

**Sample Size Received :** 50 gram

**Total Weight/Volume :** N/A

**Completed :** 12/13/21 **Expires:** 12/13/22

**Sample Method :** SOP Client Method

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	<b>Microbials</b>	<b>PASSED</b>
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Analyte	LOD	Result
LISTERIA_MONOCYTOGENE		not present in 1 gram.
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 -KN001658MIC Batch Date : 12/07/21 08:42:25**
**Instrument Used : Micro E-HEW-069**
**Running On :**

Analyzed by	Weight	Extraction date	Extracted By
1692	1.0182g	12/07/21 10:12:32	1692

Reagent	Dilution
111521.02	1
030121.01	
110821.02	
030421.06	

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.

	<b>Mycotoxins</b>	<b>PASSED</b>
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Analyte	LOD	Units	Result	Action Level
AFLATOXIN G2	0.002	ppm	ND	0.02
AFLATOXIN G1	0.002	ppm	ND	0.02
AFLATOXIN B2	0.002	ppm	ND	0.02
AFLATOXIN B1	0.002	ppm	ND	0.02
OCHRATOXIN A+	0.002	ppm	ND	0.02
TOTAL MYCOTOXINS	0.002	ppm	ND	

**Analysis Method -SOP.T.30.060, SOP.T.40.060**
**Analytical Batch -KN001656MYC | Reviewed On - 12/07/21 16:48:24**
**Instrument Used : E-SHI-125 Mycotoxins**
**Running On : 12/06/21 17:19:02**
**Batch Date : 12/06/21 16:43:14**

Analyzed by	Weight	Extraction date	Extracted By
143	0.5062g	12/06/21 05:12:40	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.

	<b>Heavy Metals</b>	<b>PASSED</b>
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Reagent	Dilution	Consums. ID
100421.02	1	12235-110CD-110C
120821.R22		190900
080421.R13		
040521.R04		

Metal	LOD	Unit	Result	Action Level
ARSENIC-AS	0.02	ppm	ND	1.5
CADMIUM-CD	0.02	ppm	ND	0.5
MERCURY-HG	0.02	ppm	ND	3
LEAD-PB	0.02	ppm	ND	0.5

Analyzed by	Weight	Extraction date	Extracted By
12	0.2612g	12/10/21 04:12:40	12

**Analysis Method -SOP.T.40.050, SOP.T.30.052**
**Analytical Batch -KN001668HEA | Reviewed On - 12/13/21 10:30:10**
**Instrument Used : Metals ICP/MS**
**Running On :**
**Batch Date : 12/08/21 14:26:08**

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. \*Based on FL action limits.