



# Certificate of Analysis

Dec 09, 2020 | Plant Science Laboratories LLC

649 Wyoming Ave,  
Buffalo, NY, 14215



Sample: CA01102004-008

Harvest/Lot ID: NYS-HF-0255-LOT-TV-2%

Seed to Sale #n/a

Batch Date : 11/02/20

Batch#: 300-3-LOT-TV-2%

Sample Size Received: 100 gram

Retail Product Size: 100

Ordered : 11/02/20

Sampled : 11/02/20

Completed: 12/09/20 Expires: 12/09/21

Sampling Method: SOP Client Method

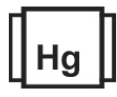
**PASSED**

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  
**0.090%**

THC/Container : 90.000 mg



Total CBD  
**2.819%**

CBD/Container : 2819.000 mg



Total Cannabinoids  
**3.049%**

Total Cannabinoids/Container  
: 3049.000 mg

CBDV	CBD	CBG	THCV	CBDA	CBGA	CBN	D9-THC	D8-THC	CBC	THCA-A
<0.050	2.819%	0.035%	ND	ND	ND	ND	0.090%	ND	0.105%	ND
<0.050	28.190 mg/g	0.350 mg/g	ND	ND	ND	ND	0.900 mg/g	ND	1.050 mg/g	ND
LOD 0.02 %	0.01 %	0.01 %	0.02 %	0.02 %	0.02 %	0.01 %	0.02 %	0.02 %	0.01 %	0.01 %

Filtration	PASSED
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Analyzed By	Weight	Extraction date	Extracted By
1054	NA	NA	NA
Analyte			LOD
Insect fragments, hairs & mammalian excreta			0.1
Analysis Method	-SOP.T.40.013		Batch Date :
Analytical Batch	-NA		
Instrument Used			
Running On			

This includes but is not limited to hair, insects, feces, packaging contaminants, and manufacturing waste and by-products. An SH-2B/T Stereo Microscope is used for inspection.

## Cannabinoid Profile Test

Analyzed by	Weight	Extraction date :	Extracted By :
1068	2.951g	NA	NA
Analysis Method	-SOP.T.40.020, SOP.T.30.050		Batch Date : 11/04/20 14:38:46
Analytical Batch	-CA000511POT	Instrument Used : HPLC-2030(MO-HPLC-02)	Running On :

Reagent	Dilution	Consumers. ID
091720.06	20	200110
061020.30		07/2019
100920.01		VAV-09-1020
102920.R01		80081-188
110320.R01		5787599A

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. LOQ for all cannabinoids is 0.5 mg/L). The results of total THC, total CBD and total Cannabinoids in plant sample are reported on a dry weight basis.

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Revision #3 This COA has been revised from the original

Haifei Yin  
Lab Director

State License # NA  
ISO Accreditation #  
L18-47-1



Signature

12/09/2020

Signed On



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**Email:** Paul@plantsciencelabs.com

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**Sample Method :** SOP Client Method

Page 2 of 4



## Pesticides

**PASSED**

Pesticides	LOD	Units	Action Level	Result	Pesticides	LOD	Units	Action Level	Result
DAMINOZIDE	0.00775	ug/g	0.00775	ND	CHLORPYRIFOS	0.00716	ug/g	0.00716	ND
ACEPHATE	0.00059	ug/g	0.1	ND	HEXYTHIAZOX	0.00156	ug/g	0.1	ND
OXAMYL	0.00494	ug/g	0.5	ND	ETOXAZOLE	0.00150	ug/g	0.1	ND
FLONICAMID	0.00748	ug/g	0.1	ND	SPIROMESIFEN	0.00146	ug/g	0.1	ND
THIAMETHOXAM	0.00238	ug/g	5	ND	CYFLUTHRIN	0.08619	ug/g	2	ND
METHOMYL	0.00351	ug/g	1	ND	CYPERMETHRIN	0.00295	ug/g	1	ND
IMIDACLOPRID	0.00355	ug/g	5	ND	FENPYROXIMATE	0.00160	ug/g	0.1	ND
ACETAMIPRID	0.00288	ug/g	0.1	ND	PYRIDABEN	0.00164	ug/g	0.1	ND
MEVINPHOS	0.00406	ug/g	0.00406	ND	ABAMECTIN B1A	0.01609	ug/g	0.1	ND
DIMETHOATE	0.00221	ug/g	0.00221	ND	ETOFENPROX	0.00239	ug/g	0.00239	ND
THIACLOPRID	0.00228	ug/g	0.00228	ND	BIFENTHRIN	0.008	ug/g	3	ND
IMAZALIL	0.00145	ug/g	0.00145	ND	ACEQUINOCYL	0.00371	ug/g	0.1	ND
ALDICARB	0.00894	ug/g	0.00894	ND	SPINOSADS	0.00115	ug/g	0.1	ND
PROPOXUR	0.00898	ug/g	0.00898	ND	PYRETHRINS	0.00240	ug/g	0.5	ND
DICHLORVOS	0.01468	ug/g	0.01468	ND	PERMETHRINS	0.00275	ug/g	0.5	ND
CARBOFURAN	0.00560	ug/g	0.0056	ND	PCNB *	0.029	ug/g	0.1	ND
CARBARYL	0.00570	ug/g	0.5	ND	PARATHION-METHYL *	0.019	ug/g	0.1	ND
NALED	0.00275	ug/g	0.1	ND	CAPTAN *	0.110	ug/g	0.7	ND
CHLORANTRANILIPROLE	0.01079	ug/g	10	ND	CHLORDANE *	0.024	ug/g	0.1	ND
METALAXYL	0.00095	ug/g	2	ND	CHLORFENAPYR *	0.019	ug/g	0.1	ND
PHOSMET	0.00288	ug/g	0.1	ND					
AZOXYSTROBIN	0.00281	ug/g	0.1	ND					
FLUDIOXONIL	0.00336	ug/g	0.1	ND					
SPIROXAMINE	0.00138	ug/g	0.00138	ND					
BOSCALID	0.00233	ug/g	0.1	<0.007					
METHIOCARB	0.00509	ug/g	0.00509	ND					
PACLOBUTRAZOL	0.00138	ug/g	0.00138	ND					
MALATHION	0.00169	ug/g	0.5	ND					
DIMETHOMORPH	0.00131	ug/g	2	ND					
MYCLOBUTANIL	0.00191	ug/g	0.1	ND					
BIFENAZATE	0.00203	ug/g	0.1	ND					
FENHEXAMID	0.00108	ug/g	0.1	ND					
SPIROTETRAMAT	0.01741	ug/g	0.1	ND					
FIPRONIL	0.00206	ug/g	0.00206	ND					
ETHOPROPHOS	0.00187	ug/g	0.00187	ND					
FENOXYCARB	0.00193	ug/g	0.00193	ND					
KRESOXIM-METHYL	0.00282	ug/g	0.1	ND					
TEBUCONAZOLE	0.00092	ug/g	0.1	ND					
COUMAPHOS	0.00163	ug/g	0.00163	ND					
DIAZINON	0.00155	ug/g	0.1	ND					
PROPICONAZOLE	0.00144	ug/g	0.1	ND					
CLOFENTEZINE	0.00172	ug/g	0.1	ND					
SPINETORAM	0.00040	ug/g	0.1	ND					
TRIFLOXYSTROBIN	0.00128	ug/g	0.1	ND					
PRALLETHRIN	0.00301	ug/g	0.1	ND					
PIPERONYL BUTOXIDE	0.00128	ug/g	3	ND					

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Revision #3 This COA has been revised from the original

**Haifei Yin**  
 Lab Director

 State License # NA  
 ISO Accreditation #  
 L18-47-1

Signature

12/09/2020

Signed On



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**Email:** Paul@plantsciencelabs.com

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**Batch# :** 300-3-LOT-TV-2%

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**Completed :** 12/09/20 **Expires:** 12/09/21

**Sample Method :** SOP Client Method

Page 3 of 4

	<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 (PPM)	Pass/Fail	Result
1,2- DICHLOROETHANE	0.1119	ug/g	1	PASS	ND
ACETONE	22.8676	ug/g	5000	PASS	ND
ACETONITRILE	30.1498	ug/g	410	PASS	ND
BENZENE	0.0897	ug/g	1	PASS	ND
BUTANE	45.9810	ug/g	5000	PASS	ND
CHLOROFORM	0.0760	ug/g	1	PASS	ND
ETHANOL	30.1944	ug/g	5000	PASS	210.208
ETHYL ACETATE	36.7999	ug/g	5000	PASS	ND
ETHYL ETHER	41.0580	ug/g	5000	PASS	ND
ETHYLENE OXIDE	0.1547	ug/g	1	PASS	ND
HEPTANE	46.7093	ug/g	5000	PASS	ND
ISOPROPANOL	32.8178	ug/g	5000	PASS	ND
METHANOL	27.6548	ug/g	3000	PASS	109.894
METHYLENE CHLORIDE	0.0585	ug/g	1	PASS	ND
N-HEXANE	47.3415	ug/g	290	PASS	ND
PENTANE	45.6067	ug/g	500	PASS	ND
PROPANE	49.9883	ug/g	500	PASS	ND
TOLUENE	44.1866	ug/g	890	PASS	ND
TRICHLOROETHYLENE	0.2173	ug/g	1	PASS	ND
XYLENES*	48.6566	ug/g	2170	PASS	ND

<b>Analyzed by</b> 1050	<b>Weight</b> 0.268g	<b>Extraction date</b> NA	<b>Extracted By</b> NA
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**Analysis Method -SOP.T.40.032**  
**Analytical Batch -CA000613SOL** **Reviewed On - 12/04/20 09:36:53**  
**Instrument Used : GCMS-QP2020(MO-GCMS-01)**  
**Running On :**  
**Batch Date : 12/03/20 13:37:30**

Reagent	Dilution	Consums. ID
082720.07		REST-21764
110420.02		33011020200006
081020.R21		
011420.01		

Residual solvents screening is performed using GC-MS which can detect below single digit ppm concentrations. Currently we analyze for 33 Residual solvents. (Method: SOP.T.30.042 Residual Solvents Analysis via GC-MS).

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Page 4 of 4

	<b>Microbials</b>	<b>PASSED</b>		<b>Mycotoxins</b>	<b>PASSED</b>
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Analyte	LOD	Result	Analyte	LOD	Units	Result	Action Level (PPB)
SALMONELLA		not present in 1 gram.	OCHRATOXIN A+	5.000	µg/kg	ND	20
ASPERGILLUS_FLAVUS		not present in 1 gram.	AFLATOXIN B1	0.5	µg/kg	ND	20
ASPERGILLUS_FUMIGATUS		not present in 1 gram.	AFLATOXIN G1	0.5	µg/kg	ND	20
ASPERGILLUS_NIGER		not present in 1 gram.	AFLATOXIN G2	1	µg/kg	ND	20
ASPERGILLUS_TERREUS		not present in 1 gram.	AFLATOXIN B2	0.5	µg/kg	ND	20
SHIGA TOXIN-PRODUCING ESCHERICHIA. COLI		not present in 1 gram.	TOTAL AFLATOXINS (SUM OF B1, B2, G1 & G2)	7.2	µg/kg	ND	20

**Analysis Method -SOP.T.40.043**
**Analytical Batch -CA000612MIC Batch Date :** 12/03/20

**Instrument Used :** Sensovation SensoSpot Fluorescence

**Running On :**

Analyzed by	Weight	Extraction date	Extracted By
1069	1.03g	NA	NA

Reagent	Consums. ID	Consums. ID	Consums. ID
010920.22	10025-726	26219028	18353
110520.03	200103274	6980A10	03086
010620.27	89012-778	107400-31-060120	
	215918	107533-17-071520	
	13-681-506	207379	
	76322-134	213955	

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 -CA000610MYC | Reviewed On -** 12/07/20 12:34:48

**Instrument Used :** LCMS-8060 (MYC) (MO-LCMS-001)

**Running On :**
**Batch Date :** 12/03/20 12:05:07

Analyzed by	Weight	Extraction date	Extracted By
1051	NA	NA	NA

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.


**Heavy Metals**
**PASSED**

Reagent	Reagent	Consums. ID
012420.01	101920.02	2003055-9D-0266-TA
010220.01		89049-174
030220.11		350518130
120219.03		
020320.02		
110920.R09		

Metal	LOD	Unit	Result	Action Level (PPM)
ARSENIC	0.0007	µg/g	ND	0.2
CADMIUM	0.0036	µg/g	ND	0.2
LEAD	0.0085	µg/g	ND	0.5
MERCURY	0.0029	µg/g	0.013	0.1

Analyzed by	Weight	Extraction date	Extracted By
1050	0.537g	NA	NA

**Analysis Method -SOP.T.40.050, SOP.T.30.052**
**Analytical Batch -CA000608HEA | Reviewed On -** 12/03/20 12:10:42

**Instrument Used :** ICPMS-2030(MO-ICPMS-01)

**Running On :**
**Batch Date :** 12/03/20 11:09:21

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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