



Certificate of Analysis

Dec 07, 2020 | Plant Science Laboratories LLC.

649 Wyoming Ave.
Buffalo, NY, 14215, US



Sample: DA0116006-002
Harvest/Lot ID: P-H-03010-05
Seed to Sale #N/A
Batch Date : 10/27/20
Batch#: 315-1-CAP-5%
Sample Size Received: 100 units
Retail Product Size: 50
Ordered : 11/10/20
Sampled : 11/10/20
Completed: 12/07/20 Expires: 12/07/21
Sampling Method: KP

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
0.190%

THC/Container : 95.000 mg



Total CBD
5.018%

CBD/Container : 2509.000 mg



Total Cannabinoids
5.437%

Total Cannabinoids/Container
: 2718.500 mg

CBDV	CBDA	CBGA	CBG	CBD	THCV	CBN	D9-THC	D8-THC	CBC	THCA
ND	ND	ND	0.068%	5.018%	ND	0.011%	0.190%	ND	0.150%	<0.010
ND	ND	ND	0.680 mg/g	50.180 mg/g	ND	0.110 mg/g	1.900 mg/g	ND	1.500 mg/g	<0.010
LOD 0.001 %	0.001 %	0.001 %	0.001 %	0.0001 %	0.001 %	0.001 %	0.0001 %	0.001 %	0.001 %	0.001 %

Filtration	PASSED
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Analyzed By	Weight	Extraction date	Extracted By
457	NA	NA	NA
Analyte	LOD	Batch Date	Result
Filtration and Foreign Material	0.1	12/02/20 09:32:06	ND
Analysis Method -SOP.T.40.013		Reviewed On - 12/02/20 09:45:10	
Analytical Batch -DA019422FIL			
Instrument Used : Filtration/Foreign Material Microscope			
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 :
450	1.7876g	11/18/20 02:11:55	1823
Analysis Method -SOP.T.40.020, SOP.T.30.050		Reviewed On - 11/19/20 12:42:55	Batch Date : 11/18/20 11:35:59
Analytical Batch -DA018956POT		Instrument Used : DA-LC-001	Running On : 11/18/20 21:24:29

Reagent	Dilution	Consumers. ID
121019.17	400	181019-274
111720.R03		280670723
111720.R01		914C4-914AK
110220.52		929C6-929H
		76262-590

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 1 mg/L).

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.

Jorge Segredo
Lab Director

State License # CMTL-0002
ISO Accreditation # 97164

Signature

12/07/2020

Signed On



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Email: Paul@plantsciencelabs.com

Sample : DA0116006-002
Harvest/LOT ID: P-H-03010-05
Batch# : 315-1-CAP-5%

Sampled : 11/10/20

Ordered : 11/10/20

Sample Size Received : 100 units

Completed : 12/07/20 **Expires:** 12/07/21

Sample Method : KP

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Pesticides

PASSED

Pesticides	LOD	Units	Action Level	Result	Pesticides	LOD	Units	Action Level	Result
ACEPHATE	0.01	ppm	3	ND	PROPICONAZOLE	0.01	ppm	1	ND
ABAMECTIN B1A	0.01	ppm	0.3	ND	PROPOXUR	0.01	ppm	0.1	ND
ACEQUINOCYL	0.01	ppm	2	ND	PYRETHRINS	0.05	ppm	1	ND
ACETAMIPRID	0.01	ppm	3	ND	PYRIDABEN	0.02	ppm	3	ND
ALDICARB	0.01	ppm	0.1	ND	SPINETORAM	0.02	PPM	3	ND
AZOXYSTROBIN	0.01	ppm	3	ND	SPIROMESIFEN	0.01	ppm	3	ND
BIFENAZATE	0.01	ppm	3	ND	SPIROTETRAMAT	0.01	ppm	3	ND
BIFENTHRIN	0.01	ppm	0.5	ND	SPIROXAMINE	0.01	ppm	0.1	ND
BOSCALID	0.01	PPM	3	ND	TEBUCONAZOLE	0.01	ppm	1	ND
CARBARYL	0.05	ppm	0.5	ND	THIACLOPRID	0.01	ppm	0.1	ND
CARBOFURAN	0.01	ppm	0.1	ND	THIAMETHOXAM	0.05	ppm	1	ND
CHLORANTRANILIPROLE	0.1	ppm	3	ND	TOTAL CONTAMINANT LOAD (PESTICIDES)	0.5	PPM	20	ND
CHLORMEQUAT CHLORIDE	0.1	ppm	3	ND	TOTAL PERMETHRIN	0.01	ppm	1	ND
CHLORPYRIFOS	0.01	ppm	0.1	ND	TOTAL SPINOSAD	0.01	ppm	3	ND
CLOFENTEZINE	0.02	ppm	0.5	ND	TRIFLOXYSTROBIN	0.01	ppm	3	ND
COUMAPHOS	0.01	ppm	0.1	ND	CHLORDANE *	0.01	PPM	0.1	ND
DAMINOZIDE	0.01	ppm	0.1	ND	PENTACHLORONITROBENZENE (PCNB) *	0.01	PPM	0.2	ND
DIAZANON	0.01	ppm	0.2	ND	PARATHION-METHYL *	0.01	PPM	0.1	ND
DICHLORVOS	0.01	ppm	0.1	ND	CAPTAN *	0.025	PPM	3	ND
DIMETHOATE	0.01	ppm	0.1	ND	CHLORFENAPYR *	0.01	PPM	0.1	ND
DIMETHOMORPH	0.02	ppm	3	ND	CYFLUTHRIN *	0.01	PPM	1	ND
ETHOPROPHOS	0.01	ppm	0.1	ND	CYPERMETHRIN *	0.01	PPM	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	0.04	ppm	3	ND					
KRESOXIM-METHYL	0.01	ppm	1	ND					
MALATHION	0.02	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	0.025	ppm	0.5	ND					
OXAMYL	0.05	ppm	0.5	ND					
PACLOBUTRAZOL	0.01	ppm	0.1	ND					
PHOSMET	0.01	ppm	0.2	ND					
PIPERONYL BUTOXIDE	0.3	ppm	3	ND					
PRALLETHRIN	0.01	ppm	0.4	ND					



Pesticides

PASSED

Analyzed by 585 , 1665	Weight 0.9192g	Extraction date 12/02/20 11:12:04	Extracted By 1082 , 1665
Analysis Method - SOP.T.30.065, SOP.T.40.065 , SOP.T.30.065, SOP.T40.070 Analytical Batch - DA019424PES , DA019401VOL Reviewed On- 12/02/20 09:45:10 Instrument Used : DA-LCMS-002_DER (PES) , DA-GCMS-001 Running On : 12/03/20 09:36:55 , 12/02/20 16:01:27 Batch Date : 12/02/20 09:35:20			
Reagent	Dilution	Consums. ID	
092320.12	10	287035261 76262-590	
Pesticide screen is performed using LC-MS which can screen down to below single digit ppb concentrations for regulated Pesticides. Currently we analyze for 67 Pesticides. (Method: SOP.T.30.060 Sample Preparation for Pesticides Analysis via LCMSMS and SOP.T.40.065 Procedure for Pesticide Quantification Using LCMS). * Volatile Pesticide screening is performed using GC-MS which can screen down to below single digit ppb concentrations for regulated Pesticides. Analytes marked with an asterisk were tested using GC-MS.			



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Sample : DA01116006-002
Harvest/LOT ID: P-H-03010-05
Batch# : 315-1-CAP-5%
Sampled : 11/10/20
Ordered : 11/10/20
Sample Size Received : 100 units
Completed : 12/07/20 Expires: 12/07/21
Sample Method : KP
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	Residual Solvents	PASSED
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Solvent	LOD	Units	Action Level (PPM)	Pass/Fail	Result
METHANOL	25	ppm	250	PASS	<125.000
ETHANOL	500	ppm	5000	PASS	ND
PENTANES (N-PENTANE)	75	ppm	750	PASS	ND
ETHYL ETHER	50	ppm	500	PASS	ND
ACETONE	75	ppm	750	PASS	ND
2-PROPANOL	50	ppm	500	PASS	ND
ACETONITRILE	6	ppm	60	PASS	<30.000
DICHLOROMETHANE	12.5	ppm	125	PASS	ND
N-HEXANE	25	ppm	250	PASS	ND
ETHYL ACETATE	40	ppm	400	PASS	ND
BENZENE	0.1	ppm	1	PASS	ND
HEPTANE	500	ppm	5000	PASS	ND
TOLUENE	15	ppm	150	PASS	ND
TOTAL XYLENES	15	ppm	150	PASS	ND
PROPANE	500	ppm	5000	PASS	ND
CHLOROFORM	0.2	ppm	2	PASS	ND
1,2-DICHLOROETHANE	0.2	ppm	2	PASS	ND
BUTANES (N-BUTANE)	500	ppm	5000	PASS	ND
ETHYLENE OXIDE	0.5	ppm	5	PASS	ND
1,1-DICHLOROETHENE	0.8	ppm	8	PASS	ND
TRICHLOROETHYLENE	2.5	ppm	25	PASS	ND

	Residual Solvents	PASSED
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Analyzed by 850	Weight 0.0285g	Extraction date 12/03/20 04:12:05	Extracted By 850
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Analysis Method -SOP.T.40.032
Analytical Batch -DA019508SOL
Instrument Used : DA-GCMS-003
Running On :
Batch Date : 12/03/20 15:45:05
Reviewed On - 12/04/20 15:12:33

Reagent	Dilution	Consums. ID
	1	G201.162 R2017.179

Residual solvents screening is performed using GC-MS which can detect below single digit ppm concentrations. Currently we analyze for 21 Residual solvents.(Method: SOP.T.40.032 Residual Solvents Analysis via GC-MS).



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Sample : DA0116006-002

Harvest/LOT ID: P-H-03010-05

Batch# : 315-1-CAP-5%

Sampled : 11/10/20

Ordered : 11/10/20

Sample Size Received : 100 units

Completed : 12/07/20 Expires: 12/07/21

Sample Method : KP

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	Microbials	PASSED
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	Mycotoxins	PASSED
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Analyte	LOD	Result	Analyte	LOD	Units	Result	Action Level (PPM)
ASPERGILLUS_FLAVUS		not present in 1 gram.	AFLATOXIN G2	0.002	ppm	ND	0.02
ASPERGILLUS_FUMIGATUS		not present in 1 gram.	AFLATOXIN G1	0.002	ppm	ND	0.02
ASPERGILLUS_NIGER		not present in 1 gram.	AFLATOXIN B2	0.002	ppm	ND	0.02
ASPERGILLUS_TERREUS		not present in 1 gram.	AFLATOXIN B1	0.002	ppm	ND	0.02
ESCHERICHIA_COLI_SHIGELLA_SPP		not present in 1 gram.	OCHRATOXIN A+	0.002	ppm	ND	0.02
SALMONELLA_SPECIFIC_GENE		not present in 1 gram.					

Analysis Method -SOP.T.40.043 / SOP.T.40.044

Analytical Batch -DA019397MIC Batch Date : 12/02/20

Instrument Used : PathogenDX PCR_Array Scanner DA-111,PathogenDX PCR_DA-171

Running On : 12/03/20

Analysis Method -SOP.T.30.065, SOP.T.40.065

Analytical Batch -DA019427MYC | Reviewed On - 12/03/20 11:32:25

Instrument Used : DA-LCMS-002_DER (MYC)

Running On : 12/03/20 09:36:48

Batch Date : 12/02/20 09:38:05

Analyzed by	Weight	Extraction date	Extracted By
513	0.8766g	12/02/20	1794

Analyzed by	Weight	Extraction date	Extracted By
585	NA	12/02/20 02:12:54	585

Reagent	Consums. ID	Consums. ID	Consums. ID	Consums. ID
091420.05	181019-274	50AX30819	D006	2810012D
081820.04	SG298A	20324	D006	031
	11989-024CC-024	012020	A11	2804028
	181207119C	850C6-850H	A10	2808007
	918C4-918J	2802021	2807008	2811019
	914C4-914AK	2803030	2809005	001001

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.

Aflatoxins B1, B2, G1, G2, and Ochratoxins A testing using LC-MS. (Method: SOP.T.30.065 for Sample Preparation and SOP.T.40.065 Procedure for Mycotoxins Quantification Using LCMS. LOQ 1.0 ppb). Aflatoxin B1, B2, G1, and G2 must individually be <20ug/Kg. Ochratoxins must be <20ug/Kg.

	Heavy Metals	PASSED
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Reagent	Reagent	Dilution	Consums. ID
113020.R06	113020.R04	100	89401-566
112320.R08	082520.05		
111820.R06	090320.02		
120220.R01	030420.06		
112320.R06	110120.01		
113020.R31			

Metal	LOD	Unit	Result	Action Level (PPM)
ARSENIC	0.02	PPM	ND	1.5
CADMIUM	0.02	PPM	ND	0.5
MERCURY	0.02	PPM	ND	3
LEAD	0.05	PPM	ND	0.5

Analyzed by	Weight	Extraction date	Extracted By
1022	0.2546g	12/02/20 01:12:26	1879

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

Analytical Batch -DA019409HEA | Reviewed On - 12/03/20 09:39:44

Instrument Used : DA-ICPMS-002

Running On : 12/03/20 09:38:27

Batch Date : 12/02/20 09:05:52

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.