



Certificate of Analysis

Sample:GA00917005-008
Harvest/Lot ID: 0820001419
Seed to Sale #N/A
Batch Date :09/14/20
Batch#: 0820001419
Sample Size Received: 8.4 gram
Retail Product Size: 8.4
Ordered : 09/15/20
Sampled : 09/15/20
Completed: 10/05/20 Expires: 10/05/21
Sampling Method: SOP Client Method

PASSED

Page 1 of 4

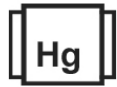
Oct 05, 2020 | Luna Elements LLC

1750 HWY 160W STE 101 PMB 250,
Fort Mill, South Carolina, 29708

PRODUCT IMAGE SAFETY RESULTS



Pesticides
PASSED



Heavy Metals
PASSED



Microbials
PASSED



Mycotoxins
PASSED



Residuals
Solvents
PASSED



Filtration
PASSED



Water Activity
PASSED



Moisture
NOT TESTED



Terpenes
NOT TESTED

MISC.

CANNABINOID RESULTS



Total THC
0.000%
THC/Container :0.000 mg



Total CBD
0.000%
CBD/Container :0.000 mg



Total Cannabinoids
0.392%
Total Cannabinoids/Container
:32.988 mg

CBDV	CBDA	CBGA	CBG	CBD	THCV	CBN	D9-THC	D8-THC	CBC	THCA
ND	ND	ND	ND	ND	ND	ND	ND	3.920 mg/g	ND	ND
LOD 0.001 %	LOD 0.001 %	LOD 0.001 %	LOD 0.001 %	LOD 0.0001 %	LOD 0.001 %	LOD 0.001 %	LOD 0.0001 %	LOD 0.001 %	LOD 0.001 %	LOD 0.001 %

Filtration PASSED

Analyzed By 1790 Weight 60.5g Extraction date 09/18/20 LOD(ppm) 1790 Extracted By 1790

Analysis Method -SOP.T.40.013 Batch Date : 09/18/20 07:57:09
Analytical Batch -GA015904FIL Reviewed On - 09/21/20 09:06:17
Instrument Used : GA-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.

Water Activity PASSED

Analyte WATER ACTIVITY Analyzed by Weight 1791 Ext. date 09/18/20 LOD 0.1 aw A.L 0.85aw Result 0.662 aW

Analysis Method -Water Activity SOP.T.40.010 Batch Date : 09/18/20 15:30:08
Analytical Batch -GA015942WAT Reviewed On - 09/21/20 10:37:45
Instrument Used : GA-125 Rotronic HygroPalm
Running On :

Cannabinoid Profile Test

Analyzed by 1541 Weight 2.9929g Extraction date : 09/24/20 03:09:11 Extracted By : 1790
Analysis Method -SOP.T.40.020, SOP.T.30.050 Reviewed On - 09/25/20 16:26:00 Batch Date : 09/24/20 14:47:56
Analytical Batch -GA016273POT Instrument Used : GA-HPLC-001 2030C Plus Running On : 09/24/20 17:44:09

Reagent	Dilution	Consums. ID
092320.01	40	280630187
091520.03		VAV-09-1020 Lot# 947.077
091620.R05		6970145500298
091820.R15		190624060 16466-042

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.

Jeremy Campbell
Lab Director



Signature

10/05/2020

Signed On

State License # CMTL-0001
ISO Accreditation # 97164



Certificate of Analysis

PASSED

Luna Elements LLC

1750 HWY 160W STE 101 PMB 250,
Fort Mill, South Carolina, 29708
Telephone: 954-540-7003
Email: Danny@tdslabs.com

Sample : GA00917005-008

Harvest/LOT ID: 0820001419

Batch# : 0820001419

Sampled : 09/15/20

Ordered : 09/15/20

Sample Size Received : 8.4 gram

Completed : 10/05/20 Expires: 10/05/21

Sample Method : SOP Client Method

Page 2 of 4



Pesticides

PASSED

Pesticides	LOD	Units	Action Level	Result	Pesticides	LOD	Units	Action Level	Result
ABAMECTIN B1A	0.01	ppm	0.3	ND	PROPICONAZOLE	0.01	ppm	1	ND
ACEPHATE	0.01	ppm	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	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	0.1	ppm	3	ND					
PRALLETHRIN	0.01	ppm	0.4	ND					



Pesticides

PASSED

Analyzed by 1850 , 1541	Weight 0.9967g	Extraction date 09/18/20 12:09:02	Extracted By 1541 , 1541
Analysis Method - SOP.T.30.065, SOP.T.40.065 , SOP.T.30.065, SOP.T40.070 Analytical Batch - GA015821PES , GA015930VOL Instrument Used : GA-LCMS-001 Pes , GA-GCMS-003 Triple Quad Pest Running On : Batch Date : 09/16/20 16:40:32			
Reagent 091020.R23	Dilution 10	Consums. ID 282066106 6970145500298 VAV-09-1020 (947.077) / ALK-09-1412 (9291.179) P734631 / P7411895	
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.T40.065 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.			

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.

Jeremy Campbell
Lab Director

State License # CMTL-0001
ISO Accreditation # 97164



Signature

10/05/2020

Signed On



Certificate of Analysis

PASSED

Luna Elements LLC

1750 HWY 160W STE 101 PMB 250,
Fort Mill, South Carolina, 29708
Telephone: 954-540-7003
Email: Danny@tdslabs.com

Sample : GA00917005-008

Harvest/LOT ID: 0820001419

Batch# : 0820001419

Sampled : 09/15/20

Ordered : 09/15/20

Sample Size Received : 8.4 gram

Completed : 10/05/20 Expires: 10/05/21


Sample Method : SOP Client Method

Page 3 of 4



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
ETHYLENE OXIDE	0.5	ppm	5	PASS	ND
METHANOL	25	ppm	250	PASS	ND
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	ND
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
CHLOROFORM	0.2	ppm	2	PASS	ND
1,2-DICHLOROETHANE	0.2	ppm	2	PASS	ND
1,1-DICHLOROETHENE	0.8	ppm	8	PASS	ND
TRICHLOROETHYLENE	2.5	ppm	25	PASS	ND

Analyzed by 508 Weight 0.0251g Extraction date 09/21/20 10:09:03 Extracted By 650

Analysis Method -SOP.T.40.032
Analytical Batch -GA015996SOL Reviewed On - 09/22/20 10:18:31
Instrument Used : GA-GCMS-001 Headspace Solvent
Running On : 09/22/20 08:26:01
Batch Date : 09/21/20 09:23:44

Reagent	Dilution	Consums. ID
		24154107 ach-20-1720

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).

This report shall not be reproduced, unless in its entirety, without written approval from Kaycha Labs. This report is a 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.

Jeremy Campbell
Lab Director



State License # CMTL-0001
ISO Accreditation # 97164

Signature

10/05/2020

Signed On



Certificate of Analysis

PASSED

Luna Elements LLC

1750 HWY 160W STE 101 PMB 250,
Fort Mill, South Carolina, 29708
Telephone: 954-540-7003
Email: Danny@tdslabs.com

Sample : GA00917005-008

Harvest/LOT ID: 0820001419

Batch# : 0820001419
Sampled : 09/15/20
Ordered : 09/15/20

Sample Size Received : 8.4 gram
Completed : 10/05/20 Expires: 10/05/21
Sample Method : SOP Client Method

Page 4 of 4



Microbials

PASSED



Mycotoxins

PASSED

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 -GA015916MIC Batch Date : 09/18/20
Instrument Used : GA-093 PathogenDx Scanner
Running On :

Analyzed by	Weight	Extraction date	Extracted By
1748	1.0420g	09/18/20	1790

Dilution	Consums. ID	Consums. ID	Consums. ID
10	2802021	2807010	2808006
	2803029	2809005	2811018
	D006	2810015A	
	A10	031	
	D006	A09	
	7334004	2804028	

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.30.065, SOP.T.40.065
Analytical Batch -GA015888MYC | Reviewed On - 09/25/20 09:01:42
Instrument Used : GA-LCMS-001 MYC
Running On :
Batch Date : 09/17/20 14:09:25

Analyzed by	Weight	Extraction date	Extracted By
1850	0.9967g	09/21/20 04:09:31	1850

Aflatoxins B1, B2, G1, G2, and Ochratoxins A testing using LC-MS. (Method: SOP.T.30.065 for Sample Preparation and SOP.T40.065 Procedure for Mycotoxins Quantification Using LCMS. LOQ 1.0 ppb). Aflatoxin B1, B2, G1, and G2 must individually be <20ug/Kg. Ochratoxins must be <20µg/Kg.



Heavy Metals

PASSED

Reagent	Reagent	Dilution	Consums. ID
041420.13	092220.R01	50	190624060
091719.R07	091720.R01		106667-05-100719
091520.R01			
110519.13			
081420.12			
091020.R04			

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
650	0.5016g	09/21/20 12:09:20	1791

Analysis Method -SOP.T.40.050, SOP.T.30.052
Analytical Batch -GA016004HEA | Reviewed On - 09/22/20 15:19:59
Instrument Used : GA-ICPMS-001-DER
Running On : 09/22/20 11:12:49
Batch Date : 09/21/20 10:54:57

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.

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.

Jeremy Campbell
Lab Director



10/05/2020

State License # CMTL-0001
ISO Accreditation # 97164

Signature

Signed On