



# Certificate of Analysis

Sample: DA00512005-001

Harvest/Lot ID: 050120-01

Seed to Sale #Badger-01

Batch Date : N/A

Batch#: 050120-01

Sample Size Received: 10 ml

Retail Product Size: 30

Ordered : 05/04/20

Sampled : 05/04/20

Completed: 05/16/20 Expires: 05/16/21

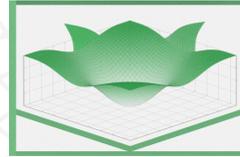
Sampling Method: SOP Client Method

**PASSED**

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May 16, 2020 |  
GradientFormulations.com

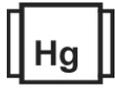
155 W Newhall Ave Waukesha  
Wisconsin, United States 53186



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  
**0.202%**

THC/Container :54.540 mg



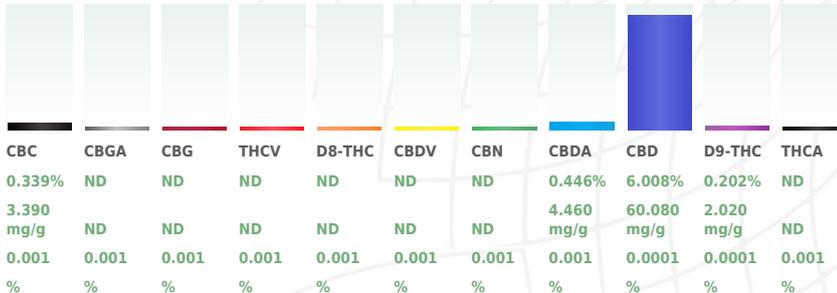
Total CBD  
**6.399%**

CBD/Container :1727.768 mg



Total Cannabinoids  
**6.995%**

Total Cannabinoids/Container  
:1888.650 mg



**Filtration PASSED**

Analyzed By: 56 Weight: NA Extraction date: NA LOD(ppm): NA Extracted By: NA  
 Analysis Method -SOP.T.40.013 Batch Date :  
 Analytical Batch -NA Reviewed On - 05/14/20 16:03:40  
 Instrument Used :

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: 1224 Weight: 0.1196g Extraction date : 05/12/20 10:05:21 Extracted By : 965  
 Analysis Method -SOP.T.40.020, SOP.T.30.050 Reviewed On - 05/14/20 12:45:49  
 Analytical Batch -DA012354POT Instrument Used : DA-LC-003 Batch Date : 05/12/20 10:23:56

Reagent	Dilution	Consums. ID
032320.27	400	280678841 914C4-914AK 929C6-929H

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).

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**Jorge Segredo**  
Lab Director

State License # n/a  
ISO Accreditation # 97164



Signature

05/17/2020

Signed On



# Certificate of Analysis

**PASSED**

GradientFormulations.com

155 W Newhall Ave Waukesha  
Wisconsin, United States 53186

Telephone: 2622780639

Email: jsmithelectrolabs@gmail.com

Sample : DA00512005-001

Harvest/LOT ID: 050120-01

Batch# : 050120-01

Sampled : 05/04/20

Ordered : 05/04/20

Sample Size Received : 10 ml

Completed : 05/16/20 Expires: 05/16/21

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	NALED	0.025	ppm	0.5	ND
ACEPHATE	0.01	ppm	3	ND	OXAMYL	0.05	ppm	0.5	ND
ACEQUINOCYL	0.01	ppm	2	ND	PACLOBUTRAZOL	0.01	ppm	0.1	ND
ACETAMIPRID	0.01	ppm	3	ND	PHOSMET	0.01	ppm	0.2	ND
ALDICARB	0.01	ppm	0.1	ND	PIPERONYL BUTOXIDE	0.1	ppm	3	ND
AZOXYSTROBIN	0.01	ppm	3	ND	PRALLETHRIN	0.01	ppm	0.4	ND
BIFENAZATE	0.01	ppm	3	ND	PROPICONAZOLE	0.01	ppm	1	ND
BIFENTHRIN	0.01	ppm	0.5	ND	PROPOXUR	0.01	ppm	0.1	ND
BOSCALID	0.01	PPM	3	ND	PYRETHRIN I	0.01	ppm	1	ND
CARBARYL	0.05	ppm	0.5	ND	PYRETHRIN II	0.01	ppm	1	ND
CARBOFURAN	0.01	ppm	0.1	ND	PYRIDABEN	0.02	ppm	3	ND
CHLORANTRANILIPROLE	0.1	ppm	3	ND	SPINETORAM	0.02	PPM	3	ND
CHLORMEQUAT CHLORIDE	0.05	ppm	3	ND	SPINOSAD (SPINOSYN A)	0.01	ppm	3	ND
CHLORPYRIFOS	0.01	ppm	0.1	ND	SPINOSAD (SPINOSYN D)	0.01	ppm	3	ND
CLOFENTEZINE	0.02	ppm	0.5	ND	SPIROMESIFEN	0.01	ppm	3	ND
COUMAPHOS	0.01	ppm	0.1	ND	SPIROTETRAMAT	0.01	ppm	3	ND
DAMINOZIDE	0.01	ppm	0.1	ND	SPIROXAMINE	0.01	ppm	0.1	ND
DIAZANON	0.01	ppm	0.2	ND	TEBUCONAZOLE	0.01	ppm	1	ND
DICHLORVOS	0.01	ppm	0.1	ND	THIACLOPRID	0.01	ppm	0.1	ND
CYPERMETHRIN	0.05	ppm	1	ND	THIAMETHOXAM	0.05	ppm	1	ND
DIMETHOATE	0.01	ppm	0.1	ND	TRIFLOXYSTROBIN	0.01	ppm	3	ND
DIMETHOMORPH	0.02	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	0.04	ppm	3	ND					
KRESOXIM-METHYL	0.01	ppm	1	ND					
MALATHION	0.02	ppm	2	ND					
METALAXYL	0.01	ppm	3	ND					
METHIACARB	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					

 **Pesticides** **PASSED**

<b>Analyzed by</b> 585	<b>Weight</b> 1.0321g	<b>Extraction date</b> 05/12/20 11:05:14	<b>Extracted By</b> 1082
<b>Analysis Method</b> - SOP.T.30.065, SOP.T.40.065 , SOP.T.30.065, SOP.T.40.070			
<b>Analytical Batch</b> - DA012344PES		<b>Reviewed On</b> - 05/14/20 16:03:40	
<b>Instrument Used</b> : DA-LCMS-001_DER (PES)			
<b>Batch Date</b> : 05/12/20 09:10:35			
<b>Reagent</b> 041420.10 051120.R20 051120.R22 051120.R24 041720.03	<b>Dilution</b> 10	<b>Consums. ID</b> 280678841 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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**Jorge Segredo**  
Lab Director  
State License # n/a  
ISO Accreditation # 97164



Signature

05/17/2020

Signed On



# Certificate of Analysis

**PASSED**

GradientFormulations.com

155 W Newhall Ave Waukesha  
Wisconsin, United States 53186

Telephone: 2622780639

Email: jsmithelectrolabs@gmail.com

Sample : DA00512005-001

Harvest/LOT ID: 050120-01

Batch# : 050120-01

Sampled : 05/04/20

Ordered : 05/04/20

Sample Size Received : 10 ml

Completed : 05/16/20 Expires: 05/16/21

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 (PPM)	Pass/Fail	Result
1,1-DICHLOROETHENE	0.8	ppm	8	PASS	ND
1,2-DICHLOROETHANE	0.2	ppm	5	PASS	ND
2-PROPANOL	50	ppm	500	PASS	ND
ACETONE	75	ppm	5000	PASS	ND
ACETONITRILE	6	ppm	410	PASS	ND
BENZENE	0.1	ppm	2	PASS	ND
BUTANES (N-BUTANE)	500	ppm	2000	PASS	ND
CHLOROFORM	0.2	ppm	60	PASS	ND
DICHLOROMETHANE	12.5	ppm	600	PASS	ND
ETHANOL	500	ppm	5000	PASS	ND
ETHYL ACETATE	40	ppm	5000	PASS	ND
ETHYL ETHER	50	ppm	5000	PASS	ND
ETHYLENE OXIDE	0.5	ppm	5	PASS	ND
HEPTANE	500	ppm	5000	PASS	ND
METHANOL	25	ppm	3000	PASS	ND
N-HEXANE	25	ppm	290	PASS	ND
PENTANES (N-PENTANE)	75	ppm	5000	PASS	ND
PROPANE	500	ppm	2100	PASS	ND
TOLUENE	15	ppm	890	PASS	ND
TOTAL XYLENES	15	ppm	150	PASS	ND
TRICHLOROETHYLENE	2.5	ppm	80	PASS	ND
XYLENES-M (1,3-DIMETHYLBENZENE)	13.5	ppm	2170	PASS	ND
XYLENES-M&P (1,3&1,4-DIMETHYLBENZENE)	27	ppm	2170	PASS	ND
XYLENES-O (1,2-DIMETHYLBENZENE)	13.5	ppm	2170	PASS	ND
XYLENES-P (1,4-DIMETHYLBENZENE)	13.5	ppm	2170	PASS	ND

Analyzed by 850	Weight 0.0203g	Extraction date 05/14/20 05:05:59	Extracted By 850
Analysis Method -SOP.T.40.032		Reviewed On - 05/15/20 16:37:06	
Analytical Batch -DA012445SOL		Instrument Used : DA-GCMS-002	
Batch Date : 05/14/20 17:26:22			

Reagent	Dilution	Consums. ID
	1	00279984 161291-1 24154107

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.30.032 Residual Solvents Analysis via GC-MS).

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# Certificate of Analysis

**PASSED**

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 155 W Newhall Ave Waukesha  
 Wisconsin, United States 53186

Telephone: 2622780639

Email: jsmithelectrolabs@gmail.com

**Sample : DA00512005-001**
**Harvest/LOT ID: 050120-01**
**Batch# : 050120-01**
**Sampled : 05/04/20**
**Ordered : 05/04/20**
**Sample Size Received : 10 ml**
**Completed : 05/16/20 Expires: 05/16/21**
**Sample Method : SOP Client Method**
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**Mycotoxins**
**PASSED**

Analyte	LOD	Units	Result	Action Level (PPM)
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

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

Analytical Batch -DA012345MYC | Reviewed On - 05/14/20 10:56:47

Instrument Used : DA-LCMS-001\_DER (MYC)

Batch Date : 05/12/20 09:11:59

Analyzed by	Weight	Extraction date	Extracted By
585	1g	05/12/20 12:05:49	585

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 &lt;20ug/Kg. Ochratoxins must be &lt;20µg/Kg.

Reagent	Consums. ID
022120.268	918C4-918J
032720.92	914C4-914AK
031120.125	929C6-929H
022120.212	50AX26219
042920.211	19323
041520.81	23819111
042920.78	190611634
032720.164	
032720.187	
042920.30	
022120.188	
032720.196	
042920.45	

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.



**Microbials**
**PASSED**

Analyte	Result
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.
ESCHERICHIA_COLI_SHIGELLA_SPP	not present in 1 gram.
SALMONELLA_SPECIFIC_GENE	not present in 1 gram.

Analysis Method -SOP.T.40.043 / SOP.T.40.045

Analytical Batch -DA012349MIC | Reviewed On - 05/15/20 21:58:40

Instrument Used : PathogenDX PCR\_Array Scanner DA-111,PathogenDX PCR\_DA-010

Batch Date : 05/12/20 10:16:25

Analyzed by	Weight	Extraction date	Extracted By
513	1.0127g	05/12/20 11:05:15	1082

Reagent	Reagent	Dilution
051120.R01	050720.R13	100
030920.01	050520.R03	
051120.R02	042720.R36	
051120.R03		
050520.R05		
051220.R01		

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

Analyzed by	Weight	Extraction date	Extracted By
53	0.2521g	05/12/20 11:05:31	1022

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

Analytical Batch -DA012339HEA | Reviewed On - 05/13/20 08:01:45

Instrument Used : DA-ICPMS-001

Batch Date : 05/12/20 08:26:55

Reagent	Dilution	Consums. ID
050520.07		181019-274
101519.12		SG298A

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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