



Certificate of Analysis

Sample: KN10202012-001
Harvest/Lot ID: SZ10320-CO12-215
Seed to Sale #N/A
Batch Date :N/A
Batch#: SZ10320-CO12-215
Sample Size Received: 10 ml
Retail Product Size: 30
Ordered : 01/28/21
Sampled : 01/28/21
Completed: 02/09/21 Expires: 02/09/22
Sampling Method: SOP Client Method

Feb 09, 2021 | Green Flower Botanicals

1049 E. Brandon Blvd.
Brandon, FL, 33511, US



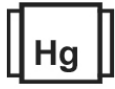
PASSED

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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
TESTED

MISC.

CANNABINOID RESULTS



Total THC
0.269%



Total CBD
15.559%



Total Cannabinoids
16.768%

TOTAL CANN	TOTAL THC	TOTAL CBD	CBDV	CBDA	CBGA	CBG	CBD	THCV	CBN	D9-THC	D8-THC	CBC	THCA
16.768 %	0.269%	15.559 %	0.096%	ND	ND	0.239%	15.559 %	ND	0.135%	0.269%	ND	0.468%	ND
167.680 mg/g	2.690 mg/g	155.590 mg/g	0.960 mg/g	ND	ND	2.390 mg/g	155.590 mg/g	ND	1.350 mg/g	2.690 mg/g	ND	4.680 mg/g	ND
LOD	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %	0.01 %

Filtration PASSED

Analyzed By	Weight	Extraction date	Extracted By
142	0.5810g	NA	NA
Analyte	Filtration and Foreign Material	LOD	Result
		0.3	ND
		Batch Date : 02/04/21	
		14:10:59	
Analysis Method -SOP.T.40.013			
Analytical Batch -KN000370FIL			
Instrument Used : E-AMS-138 Microscope			

This includes but is not limited to hair, insects, feces, packaging contaminants, and manufacturing waste and by-products. A SW-213 Stereo Microscope is used for inspection.

Cannabinoid Profile Test

Analyzed by	Weight	Extraction date :	Extracted By :
113	0.2256g	NA	NA
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 -KN000366POT	Instrument Used : HPLC E-SHI-008	Reviewed On - 02/04/21 15:27:49	Batch Date : 02/03/21 17:17:20

Reagent	Dilution	Consums. ID
120320.R02 020221.R01 020221.R02	40	00298878 190909059 947.217

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.

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Lab Director
State License # n/a
ISO Accreditation #
17025:2017

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02/09/2021
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Sample Method : SOP Client Method

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Terpenes

TESTED

Terpenes	LOD	Units	Result (%)	Terpenes	LOD	Units	Result (%)
ALPHA-PHELLANDRENE	.02	%	ND	ISOPULEGOL	.02	%	ND
FENCHONE	.02	%	ND	CIS-NEROLIDOL	.02	%	ND
GAMMA-TERPINENE	.02	%	ND	3-CARENE	.02	%	ND
GERANIOL	.02	%	ND	FENCHYL ALCOHOL	.02	%	ND
GERANYL ACETATE	.02	%	ND	HEXAHYDROT HYMOL	.02	%	ND
GUAJOL	.02	%	ND	EUCALYPTOL	.02	%	ND
LIMONENE	.02	%	ND	ISOBORNEOL	.02	%	ND
LINALOOL	.02	%	ND				
NEROL	.02	%	ND				
OCIMENE	.02	%	ND				
FARNESENE	.02	%	0.133				
PULEGONE	.02	%	ND				
SABINENE	.02	%	ND				
SABINENE HYDRATE	.02	%	ND				
TERPINEOL	.02	%	ND				
TERPINOLENE	.02	%	ND				
TRANS-CARYOPHYLLENE	.02	%	0.111				
TRANS-NEROLIDOL	.02	%	ND				
VALENCENE	.02	%	ND				
CEDROL	.02	%	ND				
ALPHA-HUMULENE	.02	%	0.038				
ALPHA-PINENE	.02	%	ND				
ALPHA-TERPINENE	.02	%	ND				
BETA-MYRCENE	.02	%	ND				
BETA-PINENE	.02	%	ND				
BORNEOL	.04	%	ND				
CAMPHENE	.02	%	ND				
CAMPHOR	.04	%	ND				
CARYOPHYLLENE OXIDE	.02	%	ND				
ALPHA-CEDRENE	.02	%	ND				
ALPHA-BISABOLOL	.02	%	0.042				
Total		0.326					



Terpenes

TESTED

Analyzed by: 138 Weight: 1.01734g Extraction date: NA Extracted By: NA

Analysis Method -SOP.T.40.090
Analytical Batch -KN000364TER
Instrument Used : E-SHI-109 Terpenes
Running On :
Batch Date : 02/03/21 14:23:09

Reagent Dilution Consums. ID

Terpenoid profile screening is performed using GC-MS with Liquid Injection (Gas Chromatography - Mass Spectrometer) which can screen 38 terpenes using Method SOP.T.40.090 Terpenoid Analysis Via GC-MS. Analytes ISO Pending

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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	0.05	ppm	0.3	ND	PIPERONYL BUTOXIDE	0.05	ppm	3	ND
ACEPHATE	0.05	ppm	3	ND	PRALLETHRIN	0.05	ppm	0.4	ND
ACEQUINOCYL	0.05	ppm	2	ND	PROPICONAZOLE	0.05	ppm	1	ND
ACETAMIPRID	0.05	ppm	3	ND	PROPOXUR	0.05	ppm	0.1	ND
ALDICARB	0.05	ppm	0.1	ND	PYRETHRINS	0.05	ppm	1	ND
AZOXYSTROBIN	0.05	ppm	3	ND	PYRIDABEN	0.10	ppm	3	ND
BIFENAZATE	0.05	ppm	3	ND	SPINETORAM	0.05	ppm	3	ND
BIFENTHRIN	0.05	ppm	0.5	ND	SPIROMESIFEN	0.05	ppm	3	ND
BOSCALID	0.05	ppm	3	ND	SPIROTETRAMAT	0.05	ppm	3	ND
CARBARYL	0.05	ppm	0.5	ND	SPIROXAMINE	0.05	ppm	0.1	ND
CARBOFURAN	0.05	ppm	0.1	ND	TEBUCONAZOLE	0.05	ppm	1	ND
CHLORANTRANILIPROLE	0.05	ppm	3	ND	THIACLOPRID	0.05	ppm	0.1	ND
CHLORMEQUAT CHLORIDE	0.05	ppm	3	ND	THIAMETHOXAM	0.05	ppm	1	ND
CHLORPYRIFOS	0.05	ppm	0.1	ND	TOTAL SPINOSAD	0.02	ppm	3	ND
CLOFENTEZINE	0.10	ppm	0.5	ND	TRIFLOXYSTROBIN	0.05	ppm	3	ND
COUMAPHOS	0.05	ppm	0.1	ND					
CYPERMETHRIN	0.05	ppm	1	ND					
DAMINOZIDE	0.05	ppm	0.1	ND					
DIAZANON	0.05	ppm	0.2	ND					
DICHLORVOS	0.05	ppm	0.1	ND					
DIMETHOATE	0.05	ppm	0.1	ND					
DIMETHOMORPH	0.10	ppm	3	ND					
ETHOPROPHOS	0.05	ppm	0.1	ND					
ETOFENPROX	0.05	ppm	0.1	ND					
ETOXAZOLE	0.05	ppm	1.5	ND					
FENHEXAMID	0.05	ppm	3	ND					
FENOXYCARB	0.05	ppm	0.1	ND					
FENPYROXIMATE	0.05	ppm	2	ND					
FIPRONIL	0.05	ppm	0.1	ND					
FLONICAMID	0.05	ppm	2	ND					
FLUDIOXONIL	0.05	ppm	3	ND					
HEXYTHIAZOX	0.05	ppm	2	ND					
IMAZALIL	0.05	ppm	0.1	ND					
IMIDACLOPRID	0.05	ppm	3	ND					
KRESOXIM-METHYL	0.05	ppm	1	ND					
MALATHION	0.05	ppm	2	ND					
METALAXYL	0.05	ppm	3	ND					
METHIOCARB	0.05	ppm	0.1	ND					
METHOMYL	0.05	ppm	0.1	ND					
MEVINPHOS	0.05	ppm	0.1	ND					
MYCLOBUTANIL	0.05	ppm	3	ND					
NALED	0.05	ppm	0.5	ND					
OXAMYL	0.05	ppm	0.5	ND					
PACLOBUTRAZOL	0.05	ppm	0.1	ND					
PERMETHRINS	0.05	ppm	1	ND					
PHOSMET	0.05	ppm	0.2	ND					

Pesticides PASSED

Analyzed by	Weight	Extraction date	Extracted By
143	1.011g	02/03/21 12:02:32	143
<small>Analysis Method - SOP.T.30.060, SOP.T.40.060 , Analytical Batch - KNO00362PES Instrument Used : E-SHI-125 Pesticides Running On : 02/03/21 12:50:13</small>			
Reagent		Dilution	Consums. ID
<small>012721.R03 020121.R03 020121.R01 020121.R02</small>		10	<small>P7364369 00299697</small>
<small>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.T.40.060 Procedure for Pesticide Quantification Using LCMS). Analytes ISO pending. *Based on FL action limits. *</small>			

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Ordered : 01/28/21

Sample Size Received : 10 ml

Completed : 02/09/21 **Expires:** 02/09/22

Sample Method : SOP Client Method

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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
METHANOL	25	ppm	250	PASS	ND
ETHYLENE OXIDE	0.5	ppm	5	PASS	ND
PENTANES (N-PENTANE)	75	ppm	750	PASS	ND
ETHANOL	500	ppm	5000	PASS	<2500.000
ETHYL ETHER	50	ppm	500	PASS	ND
1,1-DICHLOROETHENE	0.8	ppm	8	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	<200.000
CHLOROFORM	0.2	ppm	2	PASS	ND
BENZENE	0.1	ppm	1	PASS	ND
1,2-DICHLOROETHANE	0.2	ppm	2	PASS	ND
HEPTANE	500	ppm	5000	PASS	ND
TRICHLOROETHYLENE	2.5	ppm	25	PASS	ND
TOLUENE	15	ppm	150	PASS	ND
XYLENES-M&P (1,3&1,4-DIMETHYLBENZENE)	10	ppm	150	PASS	ND
XYLENES-O (1,2-DIMETHYLBENZENE)	5	ppm	150	PASS	ND

Analyzed by 138
Weight 0.02482g
Extraction date NA
Extracted By NA

Analysis Method -SOP.T.40.032
Analytical Batch -KN000361SOL
Instrument Used : E-SHI-106 Residual Solvents
Running On : 02/03/21 14:20:09
Batch Date : 02/03/21 09:41:01

Reagent	Dilution	Consums. ID
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 Size Received : 10 ml
Completed : 02/09/21 **Expires:** 02/09/22
Sample Method : SOP Client Method
Ordered : 01/28/21

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Microbials
PASSED



Mycotoxins
PASSED

Analyte	LOD	Result
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 -KN000365MIC Batch Date : 02/03/21
Instrument Used : Micro E-HEW-069
Running On : 02/04/21

Analyzed by	Weight	Extraction date	Extracted By
142	0.9505g	NA	NA

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.

Analyte	LOD	Units	Result	Action Level (PPM)
AFLATOXIN G2	0.005	ppm	ND	0.02
AFLATOXIN G1	0.005	ppm	ND	0.02
AFLATOXIN B2	0.005	ppm	ND	0.02
AFLATOXIN B1	0.005	ppm	ND	0.02
OCHRATOXIN A+	0.005	ppm	ND	0.02
TOTAL MYCOTOXINS		ppm	0.000	

Analysis Method -SOP.T.30.060, SOP.T.40.060
Analytical Batch -KN000363MYC | Reviewed On - 02/05/21 10:58:33
Instrument Used : E-SHI-125 Mycotoxins
Running On : 02/03/21 12:50:33
Batch Date : 02/03/21 11:46:25

Analyzed by	Weight	Extraction date	Extracted By
143	5g	02/03/21 03:02:10	143

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. Analytes ISO pending. *Based on FL action limits.



Heavy Metals
PASSED

Reagent	Dilution	Consums. ID
012221.R13	50	191208060
011521.R01		7226/0030021
120820.R35		
123020.R01		

Metal	LOD	Unit	Result	Action Level (PPM)
ARSENIC-AS	0.04	ppm	ND	1.5
CADMIUM-CD	0.04	ppm	ND	0.5
MERCURY-HG	0.04	ppm	ND	3
LEAD-PB	0.04	ppm	ND	0.5

Analyzed by	Weight	Extraction date	Extracted By
12	0.2752g	NA	NA

Analysis Method -SOP.T.40.050, SOP.T.30.052
Analytical Batch -KN000367HEA | Reviewed On - 02/05/21 09:30:56
Instrument Used : Metals ICP/MS
Running On :
Batch Date : 02/03/21 17:51:38

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. Analytes ISO Pending. *Based on FL action limits.

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