



Certificate of Analysis

Sample: KN10211002-003
Harvest/Lot ID: SZ10320-FS6-217
Seed to Sale #N/A
Batch Date : 02/08/21
Batch#: SZ10320-FS6-217
Sample Size Received: 10 ml
Retail Product Size: 30
Ordered : 02/09/21
sampled : 02/09/21
Completed: 02/16/21 Expires: 02/16/22
Sampling Method: SOP Client Method

Feb 16, 2021 | Green Flower Botanicals

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



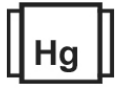
PASSED

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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
0.260%



Total CBD
7.449%



Total Cannabinoids
8.237%

CBDV	CBDA	CBGA	CBG	CBD	THCV	CBN	D9-THC	D8-THC	CBC	THCA
0.044%	ND	ND	0.180%	7.449%	ND	0.019%	0.260%	ND	0.283%	ND
0.440 mg/g	ND	ND	1.800 mg/g	74.490 mg/g	ND	0.190 mg/g	2.600 mg/g	ND	2.830 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 %

Filtration PASSED

Analyzed By	Weight	Extraction date	Extracted By
142	0.5397g	NA	NA
Analyte		LOD	Result
Filtration and Foreign Material		0.3	ND
Analysis Method -SOP.T.40.013		Batch Date : 02/11/21 16:16:29	
Analytical Batch -KN000404FIL		Reviewed On - 02/12/21 15:36:40	
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-2T13 Stereo Microscope is used for inspection.

Cannabinoid Profile Test

Analyzed by	Weight	Extraction date :	Extracted By :
113	0.2052g	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 -KN000396POT		Instrument Used : HPLC E-SHI-008	Batch Date : 02/10/21 16:34:39
		Reviewed On - 02/12/21 17:15:27	

Reagent	Dilution	Consums. ID
020821.R08	40	190909059
020221.R02		00298878
120320.R02		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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02/16/2021
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Brandon, FL, 33511, US

Telephone: (813) 906-1204

Email:
LABS@GREENFLOWERBOTANICALS.COM

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Ordered : 02/09/21

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Completed : 02/16/21 Expires: 02/16/22

Sample Method : SOP Client Method

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Terpenes

TESTED

Terpenes	LOD (%)	mg/g	%	Result (%)	Terpenes	LOD(%)	mg/g	%	Result (%)
ALPHA-PHELLANDRENE	.02	ND	ND		ISOPULEGOL	.02	ND	ND	
FENCHONE	.02	ND	ND		CIS-NEROLIDOL	.02	ND	ND	
GAMMA-TERPINENE	.02	ND	ND		3-CARENE	.02	ND	ND	
GERANIOL	.02	ND	ND		FENCHYL ALCOHOL	.02	ND	ND	
GERANYL ACETATE	.02	ND	ND		HEXAHYDROTHYMOL	.02	ND	ND	
GUAIAOL	.02	0.2779	0.0278		EUCALYPTOL	.02	ND	ND	
LIMONENE	.02	ND	ND		ISOBORNEOL	.02	ND	ND	
LINALOOL	.02	ND	ND						
NEROL	.02	ND	ND						
OCIMENE	.02	ND	ND						
FARNESENE	.02	1.4070	0.1407						
PULEGONE	.02	ND	ND						
SABINENE	.02	ND	ND						
SABINENE HYDRATE	.02	ND	ND						
TERPINEOL	.02	ND	ND						
TERPINOLENE	.02	ND	ND						
TRANS-CARYOPHYLLENE	.02	1.0034	0.1003						
TRANS-NEROLIDOL	.02	ND	ND						
VALENCENE	.02	ND	ND						
CEDROL	.02	ND	ND						
ALPHA-HUMULENE	.02	0.3631	0.0363						
ALPHA-PINENE	.02	ND	ND						
ALPHA-TERPINENE	.02	ND	ND						
BETA-MYRCENE	.02	ND	ND						
BETA-PINENE	.02	ND	ND						
BORNEOL	.04	ND	ND						
CAMPHENE	.02	ND	ND						
CAMPHOR	.04	ND	ND						
CARYOPHYLLENE OXIDE	.02	ND	ND						
ALPHA-CEDRENE	.02	ND	ND						
ALPHA-BISABOLOL	.02	0.3195	0.0319						
Total (%)		0.337							



Terpenes

TESTED

Analyzed by: 138 Weight: 1.01088g Extraction date: NA Extracted By: NA

Analysis Method -SOP.T.40.090
 Analytical Batch -KN000395TER Reviewed On - 02/12/21 18:02:42
 Instrument Used : E-SHI-109 Terpenes
 Running On : 02/11/21 13:29:31
 Batch Date : 02/10/21 13:06:21

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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Lab Director
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ISO Accreditation # 17025:2017

Sue Ferguson
Signature

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Batch# : SZ10320-FS6-217

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Ordered : 02/09/21

Sample Size Received : 10 ml

Completed : 02/16/21 **Expires:** 02/16/22

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	0.340
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 143	Weight 1.0077g	Extraction date 02/11/21 11:02:21	Extracted By 143
Analysis Method - SOP.T.30.060, SOP.T.40.060 , Analytical Batch - KN000398PES		Reviewed On - 02/12/21 15:36:40	
Instrument Used : E-SHI-125 Pesticides Running On : 02/11/21 13:06:11		Batch Date : 02/11/21 10:24:06	
Reagent 012721.R03 020121.R03 020921.R02 021021.R20	Dilution 10	Consums. ID P7364369 00299697	

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. *

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Harvest/LOT ID: SZ10320-FS6-217

Batch# : SZ10320-FS6-217

Sampled : 02/09/21
Ordered : 02/09/21

Sample Size Received : 10 ml

Completed : 02/16/21 **Expires:** 02/16/22


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	3000	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** 0.02744g **Extraction date** NA **Extracted By** NA

Analysis Method -SOP.T.40.032
Analytical Batch -KN000401SOL **Reviewed On** - 02/12/21 15:29:24
Instrument Used : E-SHI-106 Residual Solvents
Running On : 02/11/21 16:34:39
Batch Date : 02/11/21 11:28:57

Reagent	Dilution	Consums. ID
		1065518282V1393

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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Signature

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Harvest/LOT ID: SZ10320-FS6-217

Batch# : SZ10320-FS6-217

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Sample Size Received : 10 ml


Completed : 02/16/21 Expires: 02/16/22

Sample Method : SOP Client Method

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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 -KN000402MIC Batch Date : 02/11/21
Instrument Used : Micro E-HEW-069
Running On : 02/11/21

Analyzed by	Weight	Extraction date	Extracted By
142	0.8087g	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 -KN000399MYC | Reviewed On - 02/12/21 11:41:14
Instrument Used : E-SHI-125 Mycotoxins
Running On : 02/11/21 13:39:22
Batch Date : 02/11/21 10:37:38

Analyzed by	Weight	Extraction date	Extracted By
143	1.0077g	02/11/21 11:02:14	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	Consums. ID
020421.R05	7226/0030021
011521.R01	190428060
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	0.28409g	NA	NA

Analysis Method -SOP.T.40.050, SOP.T.30.052
Analytical Batch -KN000403HEA | Reviewed On - 02/16/21 15:53:03
Instrument Used : Metals ICP/MS
Running On :
Batch Date : 02/11/21 15:21:04

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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