



Certificate of Analysis

Sample: DE20311020-003
Harvest/Lot ID: 10004944
Batch#: 10004944
Metrc #: 1A4000D0003F355000000842
Seed to Sale# 1A4000D0003F355000000842
Batch Date: 03/08/22
Sample Size Received: 1 gram
Total Weight/Volume: N/A
Retail Product Size: N/A gram
ordered : 03/08/22
sampled : 03/08/22
Completed: 03/17/22
Sampling Method: SOP-024
PASSED

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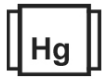
Mar 17, 2022 | Shaman Botanical Inc

License # 403H-103992

2405 Southwest Blvd,
Kansas City, MO, 64108

PRODUCT IMAGE

SAFETY RESULTS

**Pesticides
PASSED**

**Heavy Metals
PASSED**

**Microbials
PASSED**

**Mycotoxins
NOT TESTED**

**Residuals
Solvents
PASSED**

**Filth
NOT TESTED**

**Water Activity
NOT TESTED**

**Moisture
NOT TESTED**

**Homogeneity
NOT TESTED**

**Terpenes
TESTED**
CANNABINOID RESULTS

**Total THC
0.005%**

**Total CBD
0.303%**

**Total Cannabinoids
0.308%**

	CBDV	CBDVA	CBG	CBD	CBDa	THCV	CBGA	CBN	EXO-THC	CBDQ	D9-THC	D8-THC	CBL	THCVA	CBC	D10-THC	CBNA	THCA	CBGA	CBLA	THC-ACETATE
%	ND	ND	ND	0.303	ND	ND	ND	ND	ND	ND	0.004	ND	<0.002	<0.002	<0.008	ND	<0.002	ND	ND	ND	ND
ppm	ND	ND	ND	3.03	ND	ND	ND	ND	ND	ND	0.04	ND	<0.02	<0.02	<0.08	ND	<0.02	ND	ND	ND	ND
LOD	%	%	%	2.8E-5	1.1E-5	0.002	0.001	1.0E-6	0.000237	0.0148	2.2E-5	0.002	0	0	0.002	0.0129	0	1.0E-5	0.002	0.001	0.003

Cannabinoid Profile Test
**Analyzed by
1843**
**Weight
3.2148g**
**Extraction date :
03/14/22 05:03:38**
**Extracted By :
1642**
Analysis Method -SOP-020 (R15)
Reviewed On - 03/16/22 08:28:20
Batch Date : 03/14/22 12:26:03
Analytical Batch -DE003129POT
Instrument Used : Agilent 1100 "Falcor" Running On : 03/14/22 17:18:39
Dilution : 40
Reagent : 011322.03; 031122.R13; 031422.R01; 030222.01; 022222.R03; 021422.R16; 031022.R09
Consumables : 24169051; 1154419; 00291464; R1KB34782; 298076054; 12265-115CC-115; 234422; 5079-525C6-525E

Full spectrum cannabinoid analysis utilizing High Performance Liquid Chromatography with DAD detection (HPLC-UV). Method SOP-022 (R13) for reporting. Lower limit of linearity for all cannabinoids is 1 mg/L.



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Sample : DE20311020-003
Harvest/Lot ID: 10004944
Batch# : 10004944
Sampled : 03/08/22
Ordered : 03/08/22
Sample Size Received : 1 gram
Total Weight/Volume : N/A
Completed : 03/17/22 Expires: 03/17/23
Sample Method : SOP-024

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Terpenes

TESTED

Terpenes	LOD(%) mg/g	%	Result (%)
ALPHA-PINENE	0.002	ND	ND
CAMPHENE	0.002	ND	ND
BETA-PINENE	0.002	ND	ND
MYRCENE	0.002	ND	ND
DELTA-3-CARENE	0.002	ND	ND
ALPHA-TERPINENE	0.002	ND	ND
P-CYME	0.002	ND	ND
LIMONENE	0.002	ND	ND
EUCALYPTOL	0.002	ND	ND
CIS-OCIMENE	0.002	ND	ND
GAMMA-TERPINENE	0.002	ND	ND
TERPINOLENE	0.002	ND	ND
LINALOOL	0.002	ND	ND
(-)-ISOPULEGOL	0.002	ND	ND
BORNEOL	0.002	ND	ND
MENTHOL	0.002	ND	ND
ALPHA-TERPINEOL	0.002	ND	ND
PULEGONE	0.002	ND	ND
GERANIOL	0.002	ND	ND
2-ETHYL-FENCHOL	0.002	ND	ND
BETA-CARYOPHYLLENE	0.002	ND	ND
HUMULENE	0.002	ND	ND
BISABOLENE	0.002	ND	ND
NEROLIDOL	0.002	ND	ND
(-)-CARYOPHYLLENE OXIDE	0.002	ND	ND
(-)-GUAJOL	0.002	ND	ND
(-)-ALPHA-BISABOLOL	0.002	ND	ND

Total (%) 0

Terpenes LOD(%) mg/g % Result (%)



Terpenes

TESTED

 Analyzed by
1843

 Weight
 3.2148g

 Extraction date
 03/14/22 03:03:18

 Extracted By
 1542

Analysis Method - SOP-067 (R0)
Analytical Batch - DE003131TER
Instrument Used : GC 6890
Running On : 03/14/22 16:58:53
Batch Date : 03/14/22 15:50:47
Reviewed On - 03/16/22 08:05:00

Dilution : 40

Reagent : 031122.R13; 030222.01

Consumables : 24169051; 1154419; 00291464; R1KB34782; 298076054; 12265-115CC-115; 210622-688

Terpenoid profile screening is performed by GC-FID with liquid injection via SOP-067 (R0) which can screen for 28 terpenes.



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Sample : DE20311020-003
Harvest/Lot ID: 10004944
Batch# : 10004944

Sampled : 03/08/22

Ordered : 03/08/22



Sample Size Received : 1 gram

Total Weight/Volume : N/A

Completed : 03/17/22 **Expires:** 03/17/23

Sample Method : SOP-024

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<div>  Pesticides </div> <div>PASSED</div>											
Pesticides	LOD	Units	Action Level	Pass/Fail	Result	Pesticides	LOD	Units	Action Level	Pass/Fail	Result
OTHER PESTICIDES	0.1	ppb	100	PASS	ND	<div>  Pesticides </div> <div>PASSED</div>					
AVERMECTINS	0.0271	ppb	70	PASS	ND						
AZOXYSTROBIN	0.014	ppb	20	PASS	ND						
BIFENAZATE	0.011	ppb	20	PASS	ND						
ETOXAZOLE	0.006	ppb	10	PASS	ND						
IMAZALIL	0.064	ppb	40	PASS	ND						
IMIDACLOPRID	0.007	ppb	20	PASS	ND						
MALATHION	0.011	ppb	50	PASS	ND						
MYCLOBUTANIL	0.013	ppb	40	PASS	ND						
PERMETHRINS	0.0131	ppb	40	PASS	17.813						
SPIROMESIFEN	0.049	ppb	30	PASS	ND						
SPIROTETRAMAT	0.03	ppb	20	PASS	ND						
SPIROSADS	0.0134	ppb	60	PASS	ND						
TEBUCONAZOLE	0.01	ppb	10	PASS	ND						

Analyzed by 1843
Weight 0.1339g
Extraction date 03/15/22 03:03:57
Extracted By 1696
Analysis Method - SOP-060 (R5),
Analytical Batch : DE003120PES
Instrument Used : Sciex 6500 Qtrap - Pesticides
Running On :
Dilution : 25
Reagent : 022322.R02; 030922.R07; 021922.R02; 030922.R08; 021622.R11
Consumables : 24169051; 1154419; 00291464; 114CB--114E; 16564-106C6-106H
 Pesticide screen is performed using LC-MS which can screen down to below single digit ppb concentrations for regulated Pesticides via SOP-060 (R5). *



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Sample : DE20311020-003

Harvest/Lot ID: 10004944

Batch# : 10004944

Sampled : 03/08/22

Ordered : 03/08/22

Sample Size Received : 1 gram

Total Weight/Volume : N/A

Completed : 03/17/22 **Expires:** 03/17/23

Sample Method : SOP-024

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Residual Solvents

PASSED

Solvent	LOD	Units	Action Level	Pass/Fail	Result
PROPANE	4.21421	ppm	1000	PASS	ND
ETHYL ACETATE	2.79218	ppm	1000	PASS	ND
BUTANES	15.794	ppm	1000	PASS	ND
BENZENE	0.47491	ppm	2	PASS	ND
METHANOL	1.27868	ppm	600	PASS	15.088
HEPTANE	3.25945	ppm	1000	PASS	ND
PENTANES	13.828	ppm	1000	PASS	ND
TOLUENE	2.10881	ppm	180	PASS	ND
XYLENES	7.115	ppm	430	PASS	ND
ETHANOL	2.70106	ppm	1000000	PASS	19.773
ACETONE	1.708	ppm	1000	PASS	ND
2-PROPANOL	1.58756	ppm	1000	PASS	ND
HEXANES	1.92798	ppm	60	PASS	ND



Residual Solvents

PASSED

Analyzed by 1843	Weight 0.1537g	Extraction date 03/16/22 02:03:47	Extracted By 1253
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Analysis Method -SOP-032 (R18)
Analytical Batch -DE003135SOL
Instrument Used : GC 5890

Running On :
Batch Date : 03/15/22 11:00:38

Reviewed On - 03/16/22 16:37:07
Dilution : 1

Reagent : 030422.R01; 030822.R01

Consumables : 210316-361-B; 24160453; 31726-2-1; 5079-525C6-525E

Residual solvents screening is performed using GCwhich can detect below single digit ppm concentrations. Currently we analyze for 15 Residual solvents.



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Sample : DE20311020-003

Harvest/Lot ID: 10004944

Batch# : 10004944

Sampled : 03/08/22

Ordered : 03/08/22

Sample Size Received : 1 gram

Total Weight/Volume : N/A

Completed : 03/17/22 Expires: 03/17/23

Sample Method : SOP-024

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	Microbials	PASSED
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Analyte	LOD	Result	Pass / Fail
TOTAL YEAST AND MOLD	100	ND	PASS
SHIGA TOXIN PRODUCING ESCHERICHIA COLI STEC	1	ND	PASS
SALMONELLA SPECIES	1	ND	PASS
MICROBIALS	10	ND	PASS

 Analysis Method -SOP-061 (R2); SOP-062 (R2); SOP-063 (R1)
 Analytical Batch -DE003130MIC Batch Date : 03/14/22 15:47:55
 Instrument Used : Microbial - Full Panel
 Running On : 03/15/22 09:09:19


Analyzed by	Weight	Extraction date	Extracted By
1843	34.36g	03/14/22 05:03:08	5

Dilution : 1

Reagent : 012822.R06; 021522.R07; 031022.R01; 031022.R07; 031022.R08; 112921.R19; 022122.R11; 101521.R04; 110821.04; 122921.01; 110821.02; 030322.01; 031122.R01; 031122.R12; 031622.R04; 021422.20

Consumables : 16564-106C6-106H; 40898-021C4-021AI; 12265-116CC-116; 210622-688; CBJA91005; 1; NT10-1212; 00104; 01860; CH_2144311; 2

Microbiological testing for Fungal and Bacterial Identification via Polymerase Chain Reaction (PCR) methods and plating methods. If a pathogenic Escherichia Coli (STEC) or Salmonella is detected in 1g of a sample, the sample fails the microbiological-impurity testing.

	Heavy Metals	PASSED
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Metal	LOD	Unit	Result	Pass / Fail	Action Level
ARSENIC	0.002	ppm	ND	PASS	1.5
CADMIUM	0.001	ppm	ND	PASS	0.5
MERCURY	0.003	ppm	ND	PASS	1
LEAD	0.01	ppm	ND	PASS	1

Analyzed by	Weight	Extraction date	Extracted By
1843	0.2132g	03/15/22 09:03:20	666

Analysis Method -SOP-050 (R5)

Analytical Batch -DE003126HEA | Reviewed On - 03/15/22 12:21:03

Instrument Used : Shimadzu 2030 ICP-MS

Running On : | Batch Date : 03/11/22 11:39:04

Dilution : 50

Reagent :

Consumables :

Heavy Metals screening is performed using ICP-MS (Inductively Coupled Plasma - Mass Spectrometer) which can screen to below single digit ppb concentrations for regulated heavy metals using method SOP-050 (R5). Sample preparation for Heavy Metals Analysis via SOP-050 (R5).