



# Certificate of Analysis

Mar 08, 2022 | Shaman Botanical Inc

2405 Southwest Blvd,  
Kansas City, MO 64108, MO, 64108



Sample:KN20228019-003

Harvest/Lot ID: ZM.BB.DC.04

Batch#: ZM.BB.DC.04

Seed to Sale# N/A

Batch Date: N/A

Sample Size Received: 10 gram

Total Weight/Volume: N/A

Retail Product Size: 1 ml

ordered : 02/16/22

sampled : 02/16/22

Completed: 03/08/22 Expires: 03/08/23

Sampling Method: SOP Client Method

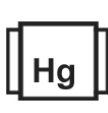
**PASSED**

Page 1 of 5

## PRODUCT IMAGE SAFETY RESULTS



Pesticides  
**PASSED**



Heavy Metals  
**PASSED**



Microbials  
**PASSED**



Mycotoxins  
**PASSED**



Residuals  
Solvents  
**PASSED**



Filth  
**PASSED**



Water Activity  
**NOT TESTED**



Moisture  
**NOT TESTED**



Terpenes  
**TESTED**

## MISC.

## CANNABINOID RESULTS



Total HHC

**96.938%**



Total d8-THC

**0.213%**



Total Cannabinoids

**97.290%**

	TOTAL THC	TOTAL CBD	TOTAL CBG	CBDV	CBDA	CBGA	CBG	CBD	THCV	CBN	EXO-THC	D8-THC	D9-THC	D10-THC	CBC	THCA	D8-THCO	D9-THCO	THC-O	95-HHC	98-HHC	TOTAL HHC
%	ND	ND	ND	ND	ND	ND	ND	<0.01	<0.01	0.139	ND	ND	ND	ND	ND	ND	ND	ND	ND	58.753	38.185	96.938
mg/g	ND	ND	ND	ND	ND	ND	ND	<0.1	<0.1	1.39	ND	ND	ND	ND	ND	ND	ND	ND	ND	587.53	381.85	969.38
LOD	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.01	0.01	0.01
%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	0.01	0.01	0.01

**Filth PASSED**

Analyzed By	Weight	Extraction date	Extracted By
1	0.2737g	03/01/22	1692
Analyte	LOD	Pass/Fail	Result
Filth and Foreign Material	0.3	Pass	ND
Analysis Method -SOP.T.40.013		Batch Date : 03/01/22 10:33:46	
Analytical Batch -KN002029FIL		Reviewed On - 03/01/22 11:25:34	
Instrument Used : E-AMS-138 Microscope			
Running On :			

This includes but is not limited to hair, insects, feces, packaging contaminants, and manufacturing waste and by-products. A SW-2713 Stereo Microscope is used for inspection.

## Cannabinoid Profile Test

Analyzed by	Weight	Extraction date :	Extracted By :
113	0.2177g	02/26/22 06:02:05	113
Analysis Method -Expanded Measurement of Uncertainty: Flower Matrix d9-THC:12.7%, THCA: 9.3%, 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 -KN002024POT Instrument Used : HPLC E-SM-0098 Running On :			
Reviewed On - 03/01/22 17:25:28			Batch Date : 02/28/22 15:14:10
Reagent	Dilution	Consumables ID	
081321.R04	40	947.251	
022322.R01		12123-046CC-046	
021622.R03			

Full spectrum cannabinoid analysis utilizing High Performance Liquid Chromatography with UV/MS detection (HPLC-UV/MS). (Method: SOP.T.30.031.TN for sample prep and Shimadzu High Sensitivity Method SOP.T.40.031 for analysis.). \*Based on FL action limits.

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.

**Sue Ferguson**  
Lab Director

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

*Sue Ferguson*  
Signature

03/08/22

Signed On





# Certificate of Analysis

**PASSED**

Shaman Botanical Inc

 2405 Southwest Blvd,  
 Kansas City, MO 64108, MO, 64108  
 Telephone: 855-427-7386  
 Email: Corporate@CBDamericanshaman.com

 Sample : KN20228019-003  
 Harvest/Lot ID: ZM.BB.DC.04

 Batch# : ZM.BB.DC.04  
 Sampled : 02/16/22  
 Ordered : 02/16/22

 Sample Size Received : 10 gram  
 Total Weight/Volume : N/A  
 Completed : 03/08/22 Expires: 03/08/23  
 Sample Method : SOP Client Method

Page 2 of 5



## Terpenes

**TESTED**

Terpenes	LOD(%) mg/g	%
TRANS-CARYOPHYLLENE	0.007	6.53
GUAIOL	0.007	ND
LIMONENE	0.007	8.03
LINALOOL	0.007	2.81
NEROL	0.007	ND
OCIMENE	0.007	ND
ALPHA-PHELLANDRENE	0.007	ND
PULEGONE	0.007	ND
SABINENE	0.007	ND
SABINENE HYDRATE	0.007	ND
TERPINEOL	0.007	1.06
TERPINOLENE	0.007	< 0.2
GERANYL ACETATE	0.007	ND
TRANS-NEROLIDOL	0.007	1.18
VALENCENE	0.007	0.28
ISOPULEGOL	0.007	ND
ALPHA-HUMULENE	0.007	1.66
ALPHA-PINENE	0.007	1.37
ALPHA-TERPINENE	0.007	ND
BETA-MYRCENE	0.007	12.27
BETA-PINENE	0.007	1.33
BORNEOL	0.013	< 0.4
CAMPHENE	0.007	< 0.2
CAMPHOR	0.013	ND
CARYOPHYLLENE OXIDE	0.007	0.55
CEDROL	0.007	ND
ALPHA-BISABOLOL	0.007	1.51
ALPHA-CEDRENE	0.007	ND
CIS-NEROLIDOL	0.007	ND
3-CARENE	0.007	< 0.2
FENCHYL ALCOHOL	0.007	0.91

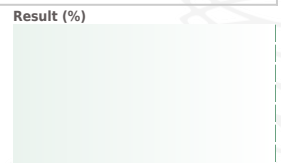
Result (%)



Terpenes

Terpenes	LOD(%) mg/g	%
HEXAHYDROTHYMOL	0.007	ND
EUCALYPTOL	0.007	ND
ISOBORNEOL	0.007	< 0.2
FARNESENE	0.007	ND
FENCHONE	0.007	ND
GAMMA-TERPINENE	0.007	ND
GERANIOL	0.007	ND

Result (%)



## Terpenes

**TESTED**

Analyzed by

1

Weight

0.6943g

Extraction date

03/04/22 03:03:15

Extracted By

138

 Analysis Method - SOP.T.40.090  
 Analytical Batch - KN002041TER  
 Instrument Used : E-SHI-109 Terpenes  
 Running On :  
 Batch Date : 03/03/22 09:08:19

Reviewed On - 03/08/22 12:50:07

Reagent

Dilution

7

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

Total (%)

3.949





10427 Cogdill Road, Suite 500  
Knoxville, TN, 37932, US  
DEA Number: RK0595249

Kaycha Labs

HHC Vape-Blackberry Kush

N/A

Matrix : Derivative



# Certificate of Analysis

**PASSED**

Shaman Botanical Inc

2405 Southwest Blvd,  
Kansas City, MO 64108, MO, 64108  
Telephone: 855-427-7386  
Email: Corporate@CBDamericanshaman.com

Sample : KN20228019-003  
Harvest/Lot ID: ZM.BB.DC.04

Batch# : ZM.BB.DC.04  
Sampled : 02/16/22  
Ordered : 02/16/22

Sample Size Received : 10 gram  
Total Weight/Volume : N/A  
Completed : 03/08/22 Expires: 03/08/23  
Sample Method : SOP Client Method

Page 3 of 5



## Pesticides

**PASSED**

Pesticides	LOD	Units	Action Level	Pass/Fail	Result	Pesticides	LOD	Units	Action Level	Pass/Fail	Result
ABAMECTIN B1A	0.01	ppm	0.3	PASS	ND	PIPERONYL BUTOXIDE	0.01	ppm	3	PASS	ND
ACEPHATE	0.01	ppm	3	PASS	ND	PRALLETHRIN	0.01	ppm	0.4	PASS	ND
ACEQUINOCYL	0.01	ppm	2	PASS	ND	PROPICONAZOLE	0.01	ppm	1	PASS	ND
ACETAMIPRID	0.01	ppm	3	PASS	ND	PROPOXUR	0.01	ppm	0.1	PASS	ND
ALDICARB	0.01	ppm	0.1	PASS	ND	PYRETHRINS	0.01	ppm	1	PASS	ND
AZOXYSTROBIN	0.01	ppm	3	PASS	ND	PYRIDABEN	0.01	ppm	3	PASS	ND
BIFENAZATE	0.01	ppm	3	PASS	ND	SPINETORAM	0.01	ppm	3	PASS	ND
BIFENTHRIN	0.01	ppm	0.5	PASS	ND	SPIROMESIFEN	0.01	ppm	3	PASS	ND
BOSCALID	0.01	ppm	3	PASS	ND	SPIROTETRAMAT	0.01	ppm	3	PASS	ND
CARBARYL	0.01	ppm	0.5	PASS	ND	SPIROXAMINE	0.01	ppm	0.1	PASS	ND
CARBOFURAN	0.01	ppm	0.1	PASS	ND	TEBUCONAZOLE	0.01	ppm	1	PASS	ND
CHLORANTRANILIPROLE	0.01	ppm	3	PASS	ND	THIACLOPRID	0.01	ppm	0.1	PASS	ND
CHLORMEQUAT CHLORIDE	0.01	ppm	3	PASS	ND	THIAMETHOXAM	0.01	ppm	1	PASS	ND
CHLORPYRIFOS	0.01	ppm	0.1	PASS	ND	TOTAL SPINOSAD	0.01	ppm	3	PASS	ND
CLOFENTHEZINE	0.01	ppm	0.5	PASS	ND	TRIFLOXYSTROBIN	0.01	ppm	3	PASS	ND
COUMAPHOS	0.01	ppm	0.1	PASS	ND						
CYPERMETHRIN	0.01	ppm	1	PASS	ND						
DAMINOZIDE	0.01	ppm	0.1	PASS	ND						
DIAZANON	0.01	ppm	0.2	PASS	ND						
DICHLORVOS	0.01	ppm	0.1	PASS	ND						
DIMETHOATE	0.01	ppm	0.1	PASS	ND						
DIMETHOMORPH	0.01	ppm	3	PASS	ND						
ETHOPROPHOS	0.01	ppm	0.1	PASS	ND						
ETOFENPROX	0.01	ppm	0.1	PASS	ND						
ETOXAZOLE	0.01	ppm	1.5	PASS	ND						
FENHEXAMID	0.01	ppm	3	PASS	ND						
FENOXYCARB	0.01	ppm	0.1	PASS	ND						
FENPYROXIMATE	0.01	ppm	2	PASS	ND						
FIPRONIL	0.01	ppm	0.1	PASS	ND						
FLONICAMID	0.01	ppm	2	PASS	ND						
FLUDIOXONIL	0.01	ppm	3	PASS	ND						
HEXYTHIAZOX	0.01	ppm	2	PASS	ND						
IMAZALIL	0.01	ppm	0.1	PASS	ND						
IMIDACLOPRID	0.01	ppm	3	PASS	ND						
KRESOXIM-METHYL	0.01	ppm	1	PASS	ND						
MALATHION	0.01	ppm	2	PASS	ND						
METALAXYL	0.01	ppm	3	PASS	ND						
METHIOCARB	0.01	ppm	0.1	PASS	ND						
METHOMYL	0.01	ppm	0.1	PASS	ND						
MEVINPHOS	0.01	ppm	0.1	PASS	ND						
MYCLOBUTANIL	0.01	ppm	3	PASS	ND						
NALED	0.01	ppm	0.5	PASS	ND						
OXAMYL	0.01	ppm	0.5	PASS	ND						
PACLOBUTRAZOL	0.01	ppm	0.1	PASS	ND						
PERMETHRINS	0.01	ppm	1	PASS	ND						
PHOSMET	0.01	ppm	0.2	PASS	ND						



## Pesticides

**PASSED**

Analized by 143	Weight 0.5227g	Extraction date 03/01/22 03:03:39	Extracted By 143
Analysis Method - SOP.T.30.060, SOP.T.40.060, Analytical Batch - KN002022PES			Reviewed On - 03/01/22 11:25:34
Instrument Used : E-SHI-125 Pesticides Running On : 02/28/22 15:02:59			Batch Date : 02/28/22 13:40:04
Reagent 020322.R13 110521.03 022322.R02 021722.R02 022822.R01 020922.R08	Dilution 10	Consumables ID 210419634 947.251	
Pesticide analysis is performed using LC-MSMS which can quantify down to below single digit ppb concentrations for regulated Pesticides. Currently we analyze for 61 Pesticides. (Methods: SOP.T.30.065 Sample Preparation for Pesticides Analysis via LCMSMS and SOP.T40.065 Procedure for Pesticide Quantification Using LCMSMS). *Based on FL action limits. *			

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.

Sue Ferguson

Lab Director

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

*Sue Ferguson*

Signature

03/08/22

Signed On





# Certificate of Analysis

**PASSED**

Shaman Botanical Inc

 2405 Southwest Blvd,  
 Kansas City, MO 64108, MO, 64108  
 Telephone: 855-427-7386  
 Email: Corporate@CBDamericanshaman.com

 Sample : KN20228019-003  
 Harvest/Lot ID: ZM.BB.DC.04

 Batch# : ZM.BB.DC.04  
 Sampled : 02/16/22  
 Ordered : 02/16/22

 Sample Size Received : 10 gram  
 Total Weight/Volume : N/A  
 Completed : 03/08/22 Expires: 03/08/23  
 Sample Method : SOP Client Method

Page 4 of 5



## Residual Solvents

TESTED

Solvent	LOD	Units	Action Level	Pass/Fail	Result
PROPANE	500	ppm	2100	PASS	ND
BUTANES (N-BUTANE)	500	ppm	2000	PASS	ND
METHANOL	25	ppm	3000	PASS	ND
ETHYLENE OXIDE	0.5	ppm	5	PASS	ND
PENTANES (N-PENTANE)	75	ppm	5000	PASS	ND
ETHANOL	500	ppm	5000	PASS	ND
ETHYL ETHER	50	ppm	5000	PASS	ND
1,1-DICHLOROETHENE	0.8	ppm	8	PASS	ND
ACETONE	75	ppm	5000	PASS	ND
2-PROPANOL	50	ppm	500	PASS	ND
ACETONITRILE	6	ppm	410	PASS	ND
DICHLOROMETHANE	12.5	ppm	600	PASS	>281.25
N-HEXANE	25	ppm	290	PASS	ND
ETHYL ACETATE	40	ppm	5000	PASS	ND
CHLOROFORM	0.2	ppm	60	PASS	ND
BENZENE	0.1	ppm	2	PASS	ND
1,2-DICHLOROETHANE	0.2	ppm	5	PASS	ND
HEPTANE	500	ppm	5000	PASS	ND
TRICHLOROETHYLENE	2.5	ppm	80	PASS	ND
TOLUENE	15	ppm	890	PASS	ND
TOTAL XYLENES - M, P & O - DIMETHYLBENZENE	15	ppm	2170	PASS	ND



## Residual Solvents

TESTED

Analyzed by 143	Weight 0.02355g	Extraction date 03/02/22 10:03:52	Extracted By 143
--------------------	--------------------	--------------------------------------	---------------------

Analysis Method -SOP.T.40.032

Analytical Batch -KN002037SOL

Instrument Used : E-SHI-106 Residual Solvents

Running On : 03/02/22 10:30:16

Batch Date : 03/02/22 08:31:31

Reviewed On - 03/03/22 17:19:17

Reagent

081420.01

021622.R27

021622.R28

021622.R29

Dilution

1

Consumables ID

R2017.099

G201.120

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.





# Certificate of Analysis

**PASSED**

Shaman Botanical Inc

 2405 Southwest Blvd,  
 Kansas City, MO 64108, MO, 64108  
 Telephone: 855-427-7386  
 Email: Corporate@CBDamericanshaman.com

 Sample : KN20228019-003  
 Harvest/Lot ID: ZM.BB.DC.04

 Batch# : ZM.BB.DC.04  
 Sampled : 02/16/22  
 Ordered : 02/16/22

 Sample Size Received : 10 gram  
 Total Weight/Volume : N/A  
 Completed : 03/08/22 Expires: 03/08/23  
 Sample Method : SOP Client Method

Page 5 of 5

	<b>Microbials</b>	<b>PASSED</b>		<b>Mycotoxins</b>	<b>PASSED</b>
---	-------------------	---------------	---	-------------------	---------------

Analyte	LOD	Result	Pass / Fail	Analyte	LOD	Units	Result	Pass / Fail	Action Level
LISTERIA MONOCYTOGENE	2000	not present in 1 gram.	PASS	AFLATOXIN G2	0.002	ppm	ND	PASS	0.02
ESCHERICHIA COLI SHIGELLA SPP	1726	not present in 1 gram.	PASS	AFLATOXIN G1	0.002	ppm	ND	PASS	0.02
SALMONELLA SPECIFIC GENE	10000	not present in 1 gram.	PASS	AFLATOXIN B2	0.002	ppm	ND	PASS	0.02
ASPERGILLUS FLAVUS	10000	not present in 1 gram.	PASS	AFLATOXIN B1	0.002	ppm	ND	PASS	0.02
ASPERGILLUS FUMIGATUS	10000	not present in 1 gram.	PASS	OCHRATOXIN A+	0.002	ppm	ND	PASS	0.02
ASPERGILLUS NIGER	10000	not present in 1 gram.	PASS	TOTAL MYCOTOXINS	0.002	ppm	ND	PASS	
ASPERGILLUS TERREUS	10000	not present in 1 gram.	PASS						

Analysis Method -SOP.T.40.043

Analytical Batch -KN002030MIC Batch Date : 03/01/22 11:31:11

Instrument Used : Micro E-HEW-069

Running On :

Analyzed by	Weight	Extraction date	Extracted By
1	1.0136g	03/01/22 12:03:35	1692

**Reagent**

 030121.01  
 122921.02  
 121721.04  
 030421.11

**Dilution**

1

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.30.060, SOP.T.40.060

Analytical Batch -KN002023MYC | Reviewed On - 03/01/22 18:11:20

Instrument Used : E-SHI-125 Mycotoxins

Running On : 02/28/22 15:03:41 | Batch Date : 02/28/22 13:40:27

Analyzed by	Weight	Extraction date	Extracted By
143	0.5227g	03/01/22 03:03:22	143

Aflatoxins B1, B2, G1, G2, and Ochratoxins A testing using LC-MS. (Method: SOP.T.30.060 for Sample Preparation and SOP.T.40.060 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.

	<b>Heavy Metals</b>	<b>PASSED</b>
---	---------------------	---------------

Metal	LOD	Unit	Result	Pass / Fail	Action Level
ARSENIC-AS	0.02	ppm	ND	PASS	1.5
CADMIUM-CD	0.02	ppm	ND	PASS	0.5
MERCURY-HG	0.02	ppm	ND	PASS	3
LEAD-PB	0.02	ppm	ND	PASS	0.5

Analyzed by	Weight	Extraction date	Extracted By
1	8g	NA	NA

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

Analytical Batch -KN002026HEA | Reviewed On - 03/01/22 17:17:29

Instrument Used : Metals ICP/MS

Running On : | Batch Date : 02/28/22 16:26:35

**Dilution**

1

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.