# CERTIFICATE OF ANALYSIS

**PRODUCT NAME:** \*CBD Dog Chews **PRODUCT STRENGTH:** 2 mg / chew

BATCH: 22018C **BEST BY DATE:** 11/2023

**Bulk LOT:** 3004364

# \*Click on the links to view third-party reports\*

# Physical Atttributes

Test	Method	Specification	Results
Color	Internal	Brown	PASS
Odor	Internal	Beef and grains, with some yeast	PASS
Appearance	Internal	Squat cylindrical dog treats a plastic amber container	PASS
Primary Package Eval.	Internal	Container clean and free of filth. Container caps tight and pressure seal is intact.	PASS
Secondary Package Eval.	Internal	Labeling Compliance Checked, Cartons sturdy and clean. Sufficient cushion material exists. Box taped and secure.	PASS

## Review of Third-Party Analysis

Panel	Method	Specification	Results*	Pass/Fail	
Potency - Total CBD	HPLC-UV DAD	LOQ*: ≥ 2 mg / chew	2.1 mg	PASS	
Potency - D9-THC	HPLC-UV DAD	LOQ: <0.01% (broad spectrum)	<0.01%	PASS	
Pesticide Panel	LCMS-MS	Not Tested	N/A	N/A	
Microbial Escherichia coli (STEC)	qPCR	Complies with USP 61/62	Absent	PASS	
<b>Microbial</b> Salmonella	qPCR	Complies with USP 61/62	Absent	PASS	
Microbial Yeast and Mold	Culture Plating	Complies with USP 61/62	Below LOQ	PASS	
Microbial Total Coliforms	Culture Plating	Complies with USP 61/62	Below LOQ	PASS	
Microbial Total Aerobic Count	Culture Plating	Complies with USP 61/62	3.7 x 10 <sup>3</sup>	PASS	
Heavy Metals	ICP-MS	Arsenic (As): ≤1.5 ppm† Cadmium (Cd): ≤0.5 ppm Lead (Pb): ≤0.5 ppm Mercury (Hg): ≤1.5 ppm	Below LOQ	PASS	
Mycotoxins	LCMS-MS	Total Aflatoxins <20 ppb†† Afltoxin B1 < 20 ppb Ochratoxin < 20 ppb	Below LOQ	PASS	
<b>Residual Solvents</b>	GC-MS	Not Tested	N/A	N/A	

\*Level of Quantification † Parts Per Million †† Part Per Billion

Keegan Schlittler 01/25/2022 Quality Certified Keegan Schlittler Date Quality Assurance Manager

> FO-106 Certificate of Analysis Rev. 1.2 - Effective Date: 09/02/2021





Sample:DE11119027-004

Harvest/Lot ID: N/A

Batch#: N/A

Seed to Sale# 1A4000B00010D25000000882

Batch Date: N/A

Sample Size Received: 48 gram

Total Weight/Volume: N/A

Retail Product Size: N/A gram

Ordered: 11/18/21 sampled: 11/18/21

Completed: 11/27/21 Sampling Method: SOP-024

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# Certificate of Analysis

# Nov 27, 2021 | Folium Biosciences

License # 405R-00011 Colorado Sprinos, CO, 80915, US





SAFETY RESULTS



Pesticides



Heavy Metals





Residuals Solvents



Filth



Water Activity



Moisture



Homogeneity



MISC.

NOT TESTED

CANNABINOID RESULTS





Total CBD



**Total Cannabinoids** 0.054%























# Cannabinoid Profile Test

Analyzed by

Weight

Extraction date :

Extracted By:

Analysis Method -SOP-020 (R15)

Reviewed On - 11/23/21 15:07:42

Batch Date: 11/22/21 10:45:53

Analytical Batch -DE002697POT Instrument Used: Agilent 1100 "Falcor" Running On: 11/22/21 19:00:41

Reagent

Dilution

Consums. ID

8G045

Consums, ID

923C4-923AX



879 Federal Blvd Denver, CO, 80204, USA Matrix : Infused



# **Certificate of Analysis**

### Folium Biosciences

515 Wooten Rd Suite 110

Telephone: 719-574-2159 Email: usbua beach@foliumbiosciences.com

License #: 405R-00011

Sample: DE11119027-004 Harvest/LOT ID: N/A

Batch# : N/A

Sampled: 11/18/21 Ordered: 11/18/21

Sample Size Received: 48 gram

Total Weight/Volume: N/A

Completed: 11/27/21 Expires: 11/27/22

Sample Method: SOP-024

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### Microbials



## Mycotoxins

# PASSED

Analyte	LOD	Result
TOTAL YEAST AND MOLD		not present in 1 gramu
SHIGA TOXIN PRODUCING ESCHERICHIA COLL STEC		not present in 1 grams
SALMONELLA SPECIES		not present in 1 grats.
TOTAL AEROBIC .		250
TOTAL COLIFORM		

Analysis Method -SOP-061 (R2); SOP-062 (R2); SOP-063 (R1) Analytical Batch - DE002698MIC Batch Date: 11/27/21 11:06:40

Instrument Used: Microbial - Full Panel Running On: 11/23/21 16:37:25

Analyzed by 5	Weigh 27.74g		ction date 21 04:11.19	Extracted By	
Reagent	Reagent	Reagent	Dilution	Consums, ID	Consums. ID
112221 070 112021 000 111771 000 102221 002	110221.805 081821.09 050521.07 100419.03	111121-01 112221-72 102631-806 110321-806	1.	16564-106C6-106H 80898-021C4-021A 210316-361-8 310622-687	0 NTIO-1212 20/08/30 01859
2010/21/80# 3810/21/804	102021,21	111821.R05 022221.53		210622-688 12265-115CC-115	00103 CH 2055133

Analyte	LOD	Units	Result	Action Level
AFLATOXIN G2	0.303	ppb:	NO	20
AFLATOXIN G1	0.180		ND	20
AFLATOXIN B2	0.0904	pob	ND	20
AFLATOXIN B1	1.327	ggb	ND	20
OCHRATOXIN A+	0.0491	ppb	NO	20
AFLATOXINS		opp	0	

Analysis Method -50P-060 (RS)

Analytical Batch -DE002694MYC | Reviewed On - 11/23/21 14:27:00

Instrument Used: Sciex 6500 Qtrap - Mycotoxins

Running On :

Batch Date : 11/22/21 08:28:54

Analyzed by	Weight	Extraction date	Extracted By
1696	0.1703g	11/72/21 02:11:33	1696



## Heavy Metals

Dilution



reagent b		711524.15711	Compania ii.	*
08777114 5 10217183 07162684 13222101		0 040CU-040D 12211-108CC-108 923C4-923AK		ie.
Metal	LOD	Unit	Result	Action Level
ARSENIC	0.0020	ppm	0.051	1.5
CADMIUM	0.0016	ppen	0.038	0.5
MERCURY	0.0035	ppm.	ND:	1
LEAD	0.0101	ppm	0.048	E
Analyzed by	Weight	Extraction	n date	Extracted By
7	0.22034	11/23/21 12	-11-31	1696

Consums ID

Analysis Method -SOP-050 (RS)

Analytical Batch - DE002701HEA | Reviewed On - 11/24/21 10:27:56

Instrument Used: Shimadzu 2030 ICP-MS Running On: 13/23/21 17:16:56

Batch Date: 11/23/21 09:38:17



# **Official Compliance: Colorado** CERTIFICATE OF ANALYSIS

# **CHEW**

Batch ID or Lot Number: Reported: Test: 22018A **Microbial** 1/24/22

**Contaminants** 

Test ID: Started: **USDA License:** Matrix:

**Finished Product** T000188023 1/20/22 N/A

Methods: Sampler ID: Status: Received:

TM25 (qPCR) 01/19/2022 @ 11:43 AM N/A N/A

> TM24, TM26, TM27(Culture Plating): Microbial (Colorado Panel)

# MICROBIAL CONTAMINANTS DETERMINATION

Contaminant	Method	LOD	LLOQ	ULOQ	Result
Total Aerobic Count*	TM-26, Culture Plating	10^2 CFU/g	10^3 CFU/g	1.5x10^5 CFU/g	3.7x10^3 CFU/g
Total Coliforms*	TM-27, Culture Plating	10^1 CFU/g	10^2 CFU/g	1.5x10^4 CFU/g	None Detected
Total Yeast and Mold*	TM-24, Culture Plating	10^1 CFU/g	10^2 CFU/g	1.5x10^4 CFU/g	None Detected
E. coli (STEC)	TM-25, PCR	1 CFU/25 g	NA	NA	Absent
Salmonella	TM-25, PCR	1 CFU/25 g	NA	NA	Absent

**Notes** 

Free from visual mold, mildew, and foreign matter

**Brett Hudson** 1/24/2022 3:57:00 PM

Jackson Osaghae-Nosa 1/24/2022 4:33:00 PM

APPROVED BY / DATE

# PREPARED BY / DATE **Definitions**

LOD = Limit of Detection | LLOQ = Lower Limit of Quantitation | ULOQ = Upper Limit of Quantitation CFU/g = Colony Forming Units per Gram | STEC = Shiga Toxin-Producing E. coli

\* Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form.

Examples:  $10^2 = 100 CFU$ 

10^3 = 1.000 CFU 10^4 = 10,000 CFU 10^5 = 100,000 CFU

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories,



