

# Certificate of Analysis

Sample: KN31215004-003

Harvest/Lot ID: 22

Batch#: -

Sample Size Received: 7 gram

Retail Product Size: 1 gram

Ordered : 12/12/23

Sampled : 12/12/23

Completed: 12/19/23

Dec 19, 2023 | Clearwater Biotech, LLC

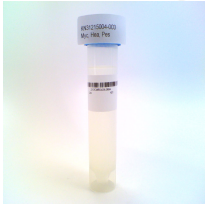
1327 Miller Road  
Greenville, SC, 29607, US



**PASSED**

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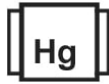
PRODUCT IMAGE



SAFETY RESULTS



Pesticides  
**PASSED**



Heavy Metals  
**PASSED**



Microbials  
**PASSED**



Mycotoxins  
**PASSED**



Residuals Solvents  
NOT TESTED



Filtration  
NOT TESTED



Water Activity  
NOT TESTED



Moisture  
NOT TESTED



Terpenes  
NOT TESTED

MISC.



## Microbial

**PASSED**

Analyte	LOD	Units	Result	Pass / Fail	Action Level
ESCHERICHIA COLI SHIGELLA SPP			Not Present	PASS	
SALMONELLA SPECIFIC GENE			Not Present	PASS	
ASPERGILLUS FLAVUS			Not Present	PASS	
ASPERGILLUS FUMIGATUS			Not Present	PASS	
ASPERGILLUS NIGER			Not Present	PASS	
ASPERGILLUS TERREUS			Not Present	PASS	

Analyzed by: 2837 Weight: 1.015g Extraction date: 12/15/23 08:52:12 Extracted by: 2837

Analysis Method : SOP.T.40.056C, SOP.T.40.041 LOD is 1 CFU  
Analytical Batch : KN004384MIC Reviewed On : 12/15/23 16:47:43  
Instrument Used : E-HEW-069 Batch Date : 12/15/23 08:10:19  
Running on : N/A

Dilution : N/A  
Reagent : 112823.01; 111523.01; 122222.01; 081123.01; 081623.02; 081123.13  
Consumables : 22/04/01; 10RWL0315W13; 251773; 242429; P7528255; 41218-146C4-146C; 263989; 93825; n/a; 247040; 0150210; 010205  
Pipette : E-THE-045; E-THE-046; E-THE-047; E-THE-048; E-THE-049; E-THE-050; E-THE-051; E-THE-052; E-THE-053; E-THE-054; E-BIO-188

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. With an LOD of 1cfu, if a pathogenic E Coli, Salmonella, A fumigatus, A flavus, A niger, or A terreus is detected in 1g of a sample, the sample fails the microbiological-impurity testing.



## Mycotoxins

**PASSED**

Analyte	LOD	Units	Result	Pass / Fail	Action Level
AFLATOXIN G2	0.0016	ppm	ND	PASS	0.02
AFLATOXIN G1	0.0012	ppm	ND	PASS	0.02
AFLATOXIN B2	0.0012	ppm	ND	PASS	0.02
AFLATOXIN B1	0.0012	ppm	ND	PASS	0.02
OCHRATOXIN A+	0.002	ppm	ND	PASS	0.02
TOTAL MYCOTOXINS	0.002	ppm	ND	PASS	0.02

Analyzed by: 3035, 3050 Weight: NA Extraction date: N/A Extracted by: N/A

Analysis Method : SOP.T.30.101.TN, SOP.T.40.101.TN  
Analytical Batch : KN004392MYC Reviewed On : 12/19/23 16:04:33  
Instrument Used : E-SHI-125 Batch Date : 12/18/23 09:37:16  
Running on : N/A

Aflatoxins B1, B2, G1, G2, and Ochratoxins Mycotoxins testing utilizing Liquid Chromatography with Triple-Quadrupole Mass Spectrometry. \*Based on FL action limits.



## Heavy Metals

**PASSED**

Metal	LOD	Units	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: 2837, 3050 Weight: 0.2661g Extraction date: 12/15/23 12:22:19 Extracted by: 2837

Analysis Method : SOP.T.30.082, SOP.T.40.082.TN  
Analytical Batch : KN004386HEA Reviewed On : 12/18/23 18:15:41  
Instrument Used : E-AGI-084 Batch Date : 12/15/23 09:02:41  
Running on : N/A


Dilution : N/A  
Reagent : 083023.01; 100422.02; 112923.R05; 110823.R02; 101722.05; 110323.06; 081723.R04; 090723.R14; 071323.R26; 101323.R01; 111023.R01; 120523.R11; 120523.R12; 031623.R02; 090723.R15  
Consumables : 1008702218; GD220011; 1350331; 6121219; 600185; 829C6-829B; 221200; A260422A  
Pipette : E-EPP-081; E-EPP-082

Heavy Metals analysis is performed using ICP-MS (Inductively Coupled Plasma - Mass Spectrometer) which can screen down to single digit ppb concentrations. LOQ is 0.04 ppm for all metals. \*Based on FL action limits.

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**Sue Ferguson**  
Lab Director

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

  
Signature

12/19/23

Signed On



# Certificate of Analysis

**PASSED**

Clearwater Biotech, LLC

Sample : KN31215004-003

Harvest/Lot ID: 22

1327 Miller Road

Greenville, SC, 29607, US

Telephone: 8646791514

Email: hflanagan@clearwaterbiotech.com

Batch# : -

Sampled : 12/12/23

Ordered : 12/12/23

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Completed : 12/19/23 Expires: 12/19/24

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## Pesticides

**PASSED**

Pesticide	LOD	Units	Action Level	Pass/Fail	Result	Pesticide	LOD	Units	Action Level	Pass/Fail	Result
ABAMECTIN B1A	0.012	ppm	0.3	PASS	ND	PIPERONYL BUTOXIDE	0.006	ppm	3	PASS	ND
ACEPHATE	0.008	ppm	3	PASS	ND	PRALLETHRIN	0.008	ppm	0.4	PASS	ND
ACEQUINOCYL	0.038	ppm	2	PASS	ND	PROPICONAZOLE	0.007	ppm	1	PASS	<0.05
ACETAMIPRID	0.009	ppm	3	PASS	ND	PROPOXUR	0.008	ppm	0.1	PASS	ND
ALDICARB	0.009	ppm	0.1	PASS	ND	PYRETHRINS	0.002	ppm	1	PASS	ND
AZOXYSTROBIN	0.013	ppm	3	PASS	ND	PYRIDABEN	0.007	ppm	3	PASS	ND
BIFENAZATE	0.028	ppm	3	PASS	ND	SPINETORAM	0.004	ppm	3	PASS	ND
BIFENTHRIN	0.047	ppm	0.5	PASS	ND	SPIROMESIFEN	0.009	ppm	3	PASS	ND
BOSCALID	0.007	ppm	3	PASS	ND	SPIROTETRAMAT	0.009	ppm	3	PASS	ND
CARBARYL	0.015	ppm	0.5	PASS	ND	SPIROXAMINE	0.006	ppm	0.1	PASS	ND
CARBOFURAN	0.008	ppm	0.1	PASS	ND	TEBUCONAZOLE	0.009	ppm	1	PASS	ND
CHLORANTRANILPROLE	0.012	ppm	1	PASS	ND	THIACLOPRID	0.008	ppm	0.1	PASS	ND
CHLORMEQUAT CHLORIDE	0.008	ppm	3	PASS	ND	THIAMETHOXAM	0.009	ppm	1	PASS	ND
CHLORPYRIFOS	0.014	ppm	0.1	PASS	ND	TOTAL SPINOSAD	0.009	ppm	3	PASS	ND
CLOFENTEZINE	0.006	ppm	0.5	PASS	ND	TRIFLOXYSTROBIN	0.009	ppm	3	PASS	ND
COUMAPHOS	0.009	ppm	0.1	PASS	ND						
CYPERMETHRIN	0.01	ppm	1	PASS	ND	Analized by:	Weight:	Extraction date:		Extracted by:	
DAMINOZIDE	0.006	ppm	0.1	PASS	ND	3035, 3050	1.0047g	12/19/23 15:55:10		3050	
DIAZANON	0.006	ppm	0.2	PASS	ND	Analysis Method :					
DICHLORVOS	0.014	ppm	0.1	PASS	ND	SOP.T.30.101.TN, SOP.T.40.101.TN					
DIMETHOATE	0.009	ppm	0.1	PASS	ND	Analytical Batch :				Reviewed On :	12/19/23 17:11:05
DIMETHOMORPH	0.009	ppm	3	PASS	ND	KN004391PES				Batch Date :	12/18/23 09:34:11
ETHOPROPHOS	0.007	ppm	0.1	PASS	ND	Instrument Used :					
ETOFENPROX	0.009	ppm	0.1	PASS	ND	E-SHI-125					
ETOXAZOLE	0.007	ppm	1.5	PASS	ND	Running on :					
FENHEXAMID	0.005	ppm	3	PASS	ND	N/A					
FENOXICARB	0.007	ppm	0.1	PASS	ND	Dilution :					
FENPYROXIMATE	0.006	ppm	2	PASS	ND	N/A					
FIPRONIL	0.008	ppm	0.1	PASS	ND	Reagent :					
FLONICAMID	0.014	ppm	2	PASS	ND	N/A					
FLUDIOXONIL	0.011	ppm	3	PASS	ND	Consumables :					
HEXYTHIAZOX	0.009	ppm	2	PASS	ND	N/A					
IMAZALIL	0.01	ppm	0.1	PASS	ND	Pipette :					
IMIDACLOPRID	0.005	ppm	3	PASS	ND	N/A					
KRESOXIM-METHYL	0.01	ppm	1	PASS	ND						
MALATHION	0.009	ppm	2	PASS	ND						
METALAXYL	0.008	ppm	3	PASS	ND						
METHIOCARB	0.008	ppm	0.1	PASS	ND						
METHOMYL	0.009	ppm	0.1	PASS	ND						
MEVINPHOS	0.001	ppm	0.1	PASS	ND						
MYCLOBUTANIL	0.006	ppm	3	PASS	ND						
NALED	0.023	ppm	0.5	PASS	ND						
OXAMYL	0.009	ppm	0.5	PASS	ND						
PACLOBUTRAZOL	0.007	ppm	0.1	PASS	ND						
PERMETHRINS	0.008	ppm	1	PASS	ND						
PHOSMET	0.009	ppm	0.2	PASS	ND						

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Lab Director

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