



#24017585

Analysis Report prepared for

## Sample Company

123 Main Street  
Midlothian, VA 23112

Phone: (804) 562-3435

043024-01  
Mycotoxin Sample Report

Collected: April 29, 2024  
Received: April 30, 2024  
Reported: April 30, 2024

We would like to thank you for trusting Hayes Microbial for your analytical needs!  
We received 4 samples by Drop Off in good condition for this project on April 30th, 2024.

The results in this analysis pertain only to this job, collected on the stated date, and should not be used in the interpretation of any other job. Information supplied by the customer can affect the validity of results. These results apply only to the samples as received. This report may not be duplicated, except in full, without the written consent of Hayes Microbial Consulting, LLC.

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A handwritten signature in black ink that reads 'Stephen N. Hayes'.

Steve Hayes, BSMT(ASCP)  
Laboratory Director  
Hayes Microbial Consulting, LLC.



EPA Laboratory ID: VA01419



Lab ID: #188863



DPH License: #PH-0198

Sample Number	1 01		2 02		3 03		4 04	
Sample Name	Kitchen - Black on Baseboard		Bedroom Floor		Living Room - Green on Wall		Den - Black on Wall	
Analysis	Mycotoxin - Comprehensive Panel		Mycotoxin - Comprehensive Panel		Mycotoxin - Aspergillus Panel		Mycotoxin - Stachybotrys Panel	
Sample Area/Volume	4.00 cm2		16.00 cm2		4.00 cm2		4.00 cm2	
	Conc. (ppb)	Conc. (/100cm <sup>2</sup> )	Conc. (ppb)	Conc. (/100cm <sup>2</sup> )	Conc. (ppb)	Conc. (/100cm <sup>2</sup> )	Conc. (ppb)	Conc. (/100cm <sup>2</sup> )
3-Acetyldeoxynivalenol	*	*	*	*				
4-Deoxynivalenol	*	*	*	*				
15-Acetyldeoxynivalenol	*	*	*	*				
Aflatoxin B1	*	*	*	*	5.782	144.550		
Aflatoxin B2	*	*	*	*	2.851	71.269		
Aflatoxin G1	*	*	*	*	*	*		
Aflatoxin G2	*	*	*	*	*	*		
Chaetoglobosin A	*	*	*	*			4.300	107.500
Citrinin	*	*	*	*	*	*		
Diacetoxyscirpenol	*	*	*	*				
Fumonisin B1	*	*	*	*				
Fumonisin B2	*	*	*	*				
HT-2 Toxin	*	*	*	*			*	*
Mycophenolic Acid	*	*	*	*				
Neosolaniol	*	*	*	*			*	*
Ochratoxin A	*	*	*	*	*	*		
Roridan E	*	*	2.226	13.911			*	*
Satratoxin G	2.417	60.434	*	*			2.169	54.236
Satratoxin H	*	*	*	*			*	*
Stachybotrylactum	3.567	89.172	*	*			9.707	242.675
Sterigmatocystin	*	*	*	*	6.792	169.799		
T2	*	*	2.580	16.125			2.840	71.000
Verrucaric Acid							*	*
Zearalenone	*	*	*	*				

\* Results below Method Detection Limit.



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Project Analyst:  
 Jon Ferrer,

Date:  
**04 - 30 - 2024**

Reviewed By:  
 Steve Hayes, BSMT

Date:  
**04 - 30 - 2024**

**Mass Spectrometry Information**

<b>Instrument Information</b>	Our instrument employs the use of a combination of Liquid Chromatography (LC) and Triple Quad(QqQ) or Tandem Mass Spectrometry(MS/MS): It utilizes quadrupoles to increase sensitivity and selectivity resulting in more accurate and precise quantification of analytes of interest.
<b>Method Detection Limit (MDL)</b>	Our Method Detection Limit is the lowest concentration of an analyte that can be reliably detected and quantified with the established analytical method.
<b>Blanks</b>	Blanks are injected at set intervals to monitor system performance, background ion concentration and analyte carryover.
<b>Quality Controls</b>	Quality controls are conducted daily in order to monitor assay performance and ensure accurate quantification of client samples.
<b>Significant Figures</b>	Analyte concentrations are reported to 3 significant figures to reflect our range of detection from parts per billion (ppb) to parts per trillion (ppt).
<b>Instrument Tuning</b>	Our LCMS is tuned daily in order to ensure accurate quantification of quality controls and client samples.

**Analyte Descriptions**

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<b>Aflatoxin B1</b>	<b>Produced By:</b> Aspergillus flavus, Aspergillus parasiticus <b>Category:</b> Aflatoxin - Carcinogen
<b>Aflatoxin B2</b>	<b>Produced By:</b> Aspergillus flavus, Aspergillus parasiticus, several other Aspergillus sp. <b>Category:</b> Aflatoxin - Hepatotoxin
<b>Chaetoglobosin A</b>	<b>Produced By:</b> Chaetomium globosum <b>Category:</b> Cytochalasin - hepatotoxin and potential carcinogen, may cause neuronal damage, peritonitis, and cutaneous lesions
<b>Roridan E</b>	<b>Produced By:</b> Fusarium, Myrothecium <b>Category:</b> Trichothecene
<b>Satratoxin G</b>	<b>Produced By:</b> Stachybotrys <b>Category:</b> Trichothecene
<b>Stachybotrylactum</b>	<b>Produced By:</b> Stachybotrys <b>Category:</b> Trichothecene

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**Analyte Descriptions**

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**Sterigmatocystin**

**Produced By:** Aspergillus versicolor, Aspergillus nidulans, Aspergillus sydowii, and some species of Bipolaris

**Category:** Polyketide - Hepatotoxic and carcinogenic

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**T2**

**Produced By:** Fusarium moniliforme, Fusarium poae, Fusarium sporotrichioides, Fusarium tricinctum, Stachybotrys, Myrothecium and other Fusarium species.

**Category:** Trichothecene - Possible neurotoxin, may cause diarrhea, vomiting, and intestinal and pulmonary hemorrhage

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