

Analysis Report prepared for

Sample Company

**123 Main Street
Midlothian, VA 23112**

Phone: **(804) 562-3435**

**112124-01
123 Main Street
Midlothian, VA 23112**

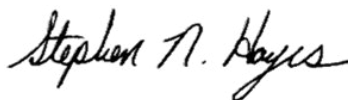
Collected: **April 15, 2025**
Received: **April 16, 2025**
Reported: **April 18, 2025**

We would like to thank you for trusting Hayes Microbial for your analytical needs!
We received 3 samples by Drop Off in good condition for this project on April 16th, 2025.

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



EPA Laboratory ID: VA01419



DPH License: #PH-0198

Sample Number	1	01	2	02	3	03	
Sample Name	Master Bedroom		Kitchen		Basement Living Area		
Analysis	Mycotoxin - Comprehensive Panel		Mycotoxin - Comprehensive Panel 2		Mycotoxin - Comprehensive Panel 2		
Sample Area/Volume	16.00 in2		16.00 in2		40.00 in2		
	Conc. (pg)	Conc. (pg/cm²)	Conc. (pg)	Conc. (pg/cm²)	Conc. (pg)	Conc. (pg/cm²)	
3-Acetyldeoxynivalenol	<LOD (<50.0)	<LOD (<0.484)	<LOD (<50.0)	<LOD (<0.484)	<LOD (<50.0)	<LOD (<0.194)	
4-Deoxynivalenol	<LOD (<25.0)	<LOD (<0.242)	<LOD (<25.0)	<LOD (<0.242)	<LOD (<25.0)	<LOD (<0.0969)	
15-Acetyldeoxynivalenol	1360	13.1	<LOD (<50.0)	<LOD (<0.484)	<LOD (<50.0)	<LOD (<0.194)	
Aflatoxin B1	<LOD (<10.00)	<LOD (<0.0969)	<LOQ (<30.0)	<LOQ (<0.291)	<LOD (<10.00)	<LOD (<0.0388)	
Aflatoxin B2	<LOD (<5.00)	<LOD (<0.0484)	<LOD (<5.00)	<LOD (<0.0484)	<LOD (<5.00)	<LOD (<0.0194)	
Aflatoxin G1	<LOD (<2.50)	<LOD (<0.0242)	<LOD (<84.0)	<LOD (<0.814)	<LOD (<2.50)	<LOD (<0.00969)	
Aflatoxin G2	<LOD (<25.0)	<LOD (<0.242)	<LOQ (<75.0)	<LOQ (<0.727)	<LOD (<25.0)	<LOD (<0.0969)	
Aflatoxin M1	<LOD (<25.0)	<LOD (<0.242)	<LOD (<25.0)	<LOD (<0.242)	<LOD (<25.0)	<LOD (<0.0969)	
Aflatoxin M2	<LOD (<6.67)	<LOD (<0.0646)	<LOD (<25.0)	<LOD (<0.242)	<LOD (<25.0)	<LOD (<0.0969)	
Alternariol	<LOD (<25.0)	<LOD (<0.242)	147	1.42	<LOD (<1020)	<LOD (<3.95)	
Beauvericin	<LOD (<10.4)	<LOD (<0.100)	<LOD (<25.0)	<LOD (<0.242)	<LOD (<25.0)	<LOD (<0.0969)	
Chaetoglobosin A	<LOD (<250)	<LOD (<2.42)	<LOD (<250)	<LOD (<2.42)	<LOD (<250)	<LOD (<0.969)	
Citrinin	<LOD (<831)	<LOD (<8.05)	<LOD (<100.0)	<LOD (<0.969)	<LOD (<100.0)	<LOD (<0.388)	
Diacetoxyscirpenol	<LOD (<25.0)	<LOD (<0.242)	<LOD (<25.0)	<LOD (<0.242)	<LOD (<25.0)	<LOD (<0.0969)	
Enniatin B	<LOD (<25.0)	<LOD (<0.242)	672	6.51	<LOD (<25.0)	<LOD (<0.0969)	
Fumitremorgin B	<LOD (<25.0)	<LOD (<0.242)	<LOD (<25.0)	<LOD (<0.242)	<LOD (<25.0)	<LOD (<0.0969)	
Fumitremorgin C	<LOD (<25.0)	<LOD (<0.242)	<LOD (<25.0)	<LOD (<0.242)	<LOD (<25.0)	<LOD (<0.0969)	
Fumonisin B1	<LOD (<400)	<LOD (<3.88)	<LOD (<400)	<LOD (<3.88)	<LOD (<400)	<LOD (<1.55)	
Fumonisin B2	<LOD (<800)	<LOD (<7.75)	<LOD (<800)	<LOD (<7.75)	<LOD (<800)	<LOD (<3.10)	
Fumonisin B3	<LOD (<400)	<LOD (<3.88)	<LOD (<25.0)	<LOD (<0.242)	<LOD (<25.0)	<LOD (<0.0969)	
Fusarenone X	<LOD (<250)	<LOD (<2.42)	<LOD (<250)	<LOD (<2.42)	<LOD (<250)	<LOD (<0.969)	
Gliotoxin	<LOD (<800)	<LOD (<7.75)	<LOD (<25.0)	<LOD (<0.242)	<LOD (<2480)	<LOD (<9.59)	
HT-2 Toxin	<LOQ (<150)	<LOQ (<1.45)	<LOD (<50.0)	<LOD (<0.484)	<LOD (<50.0)	<LOD (<0.194)	
Mycophenolic Acid	<LOD (<25.0)	<LOD (<0.242)	<LOD (<25.0)	<LOD (<0.242)	<LOD (<25.0)	<LOD (<0.0969)	

<LOD: Analyte peak below Limit of Detection. <LOQ: Analyte peak detected but below Limit of Quantification. Analyte peak detected



[illegible]

<LOD: Analyte peak below Limit of Detection. <LOQ: Analyte peak detected but below Limit of Quantification. Analyte peak detected

Mass Spectrometry Information

Instrument Information	LC-MS/MS (Liquid Chromatography-Tandem Mass Spectrometry) is an analytical technique that combines liquid chromatography (LC) with mass spectrometry (MS) to identify and quantify compounds in complex mixtures. Liquid Chromatography (LC) separates compounds based on their chemical properties as they pass through a column. Mass Spectrometry (MS/MS) detects and analyzes the separated compounds by ionizing them, measuring their mass-to-charge ratio, and using tandem mass spectrometry (MS/MS) to provide highly specific fragmentation patterns for accurate identification and quantification.
Method Information:	Our mycotoxin LC-MS/MS method starts by spiking samples with a heavy-labeled internal standard for accurate quantification. Mycotoxins are then extracted from the sample swab, followed by a clean-up procedure featuring centrifugation and filtration. The final extracts are analyzed by LC-MS/MS, and mycotoxins are quantified using linear regression.
Limit of Quantitation (LOQ)	The lowest concentration at which the substance can be reliably quantified with acceptable precision and accuracy.
Limit of Detection (LOD)	The lowest concentration of a substance that can be detected but not necessarily quantified with certainty. It's the smallest signal distinguishable from background noise.
Significant Figures	Analyte concentrations are reported to at least 3 significant figures to reflect our range of detection from parts per billion (ppb) to parts per trillion (ppt).

Mycotoxin Target Sites

Immune System

Aflatoxin
Ochratoxins
Zearalenone
Patulin
Enniatin
Sterigmatocystin
Gliotoxin

Lungs

Fumonisin
Gliotoxin
Chaetoglobosin

Liver

Aflatoxin
Ochratoxins
Fumonisin
Zearalenone
Enniatin
Sterigmatocystin

Gastrointestinal Tract

Trichothecenes
Zearalenone
Deoxynivalenol

Nervous System

Fumonisin
Trichothecenes
Gliotoxin
Chaetoglobosin

Brain

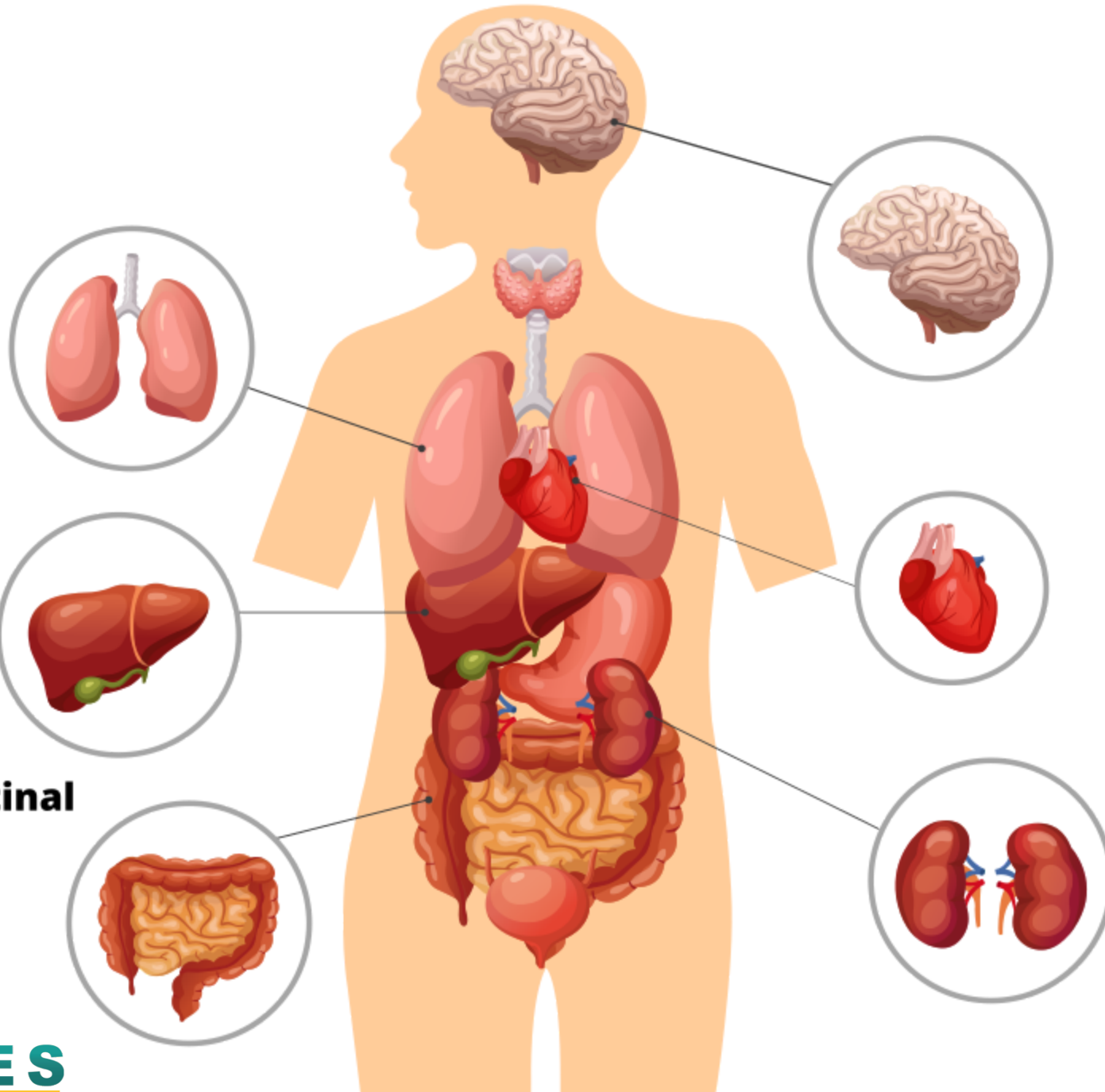
Aflatoxin
Fumonisin
Trichothecenes
Enniatin
Gliotoxin

Heart

Aflatoxin

Kidneys

Aflatoxin
Ochratoxins
Patulin
Citrinin



Analyte Descriptions

15-Acetyldeoxynivalenol	Produced By: Fusarium graminearum, Gibberella zeae Category: Trichothecene - Vomitoxin
Alternariol	Produced By: Alternaria
Enniatin B	Produced By: Fusarium
Ochratoxin A	Produced By: Aspergillus, Penicillium Category: Ochratoxin
Rugulosin	Produced By: Penicillium
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