REALTIME
A US BIOTEK LABORATORY

Mycotoxin Panel

Provider:
Patient:
Sample Type: Urine

Date of Birth:
Accession #:

Collected:
Received:
Completed:

COLOR KEY:
NOT PRESENT | EQUIVOCAL | PRESENT

(PPB: Parts Per Billion)

Ochratoxin

	Result	Value and Reference Range		
Ochratoxin A	Equivocal	<1.8	1.8 - <2	2 - <70
			1.895 PPB	

Aflatoxin

	Result	Value and Reference Range		
Aflatoxin Group: Aflatoxin B1 Aflatoxin B2 Aflatoxin G1 Aflatoxin G2	Not Present	<0.8	0.8 - <1	1 - <56
		0.325 PPB		

Trichothecene

	Result	Value and Reference Range		
Trichothecene Group (Macrocyclic): Roridin A Roridin E Roridin H Roridin L-2 Verrucarin A Verrucarin J Satratoxin G Satratoxin H Isosatratoxin F	Present	<0.07	0.07 - <0.09	0.09 - <2.4
			0.104 PPB	

Gliotoxin

	Result	Value and Reference Range		
Gliotoxin Derivative	Present	<0.5	0.5 - <1	1 - <50
			2.704 PPB	

Zearalenone

	Result	Value and Reference Range		
Zearalenone	Not Present	<0.5	0.5 - <0.7	0.7 - <11.2
		0.235 PPB		

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Test	Result	Value (ppb)	Reference Range
Ochratoxin A	Equivocal	1.895	Not Present <1.8 Equivocal 1.8 - <2 Present >=2
Aflatoxin Group: Aflatoxin B1 Aflatoxin B2 Aflatoxin G1 Aflatoxin G2	Not Present	0.325	Not Present <0.8 Equivocal 0.8 - <1 Present >=1
Trichothecene Group (Macrocyclic): Roridin A Roridin E Roridin H Roridin L-2 Verrucarin A Verrucarin J Satratoxin G Satratoxin H Isosatratoxin F	Present	0.104	Not Present <0.07 Equivocal 0.07 - <0.09 Present >=0.09
Gliotoxin Derivative	Present	2.704	Not Present <0.5 Equivocal 0.5 - <1 Present >=1
Zearalenone	Not Present	0.235	Not Present <0.5 Equivocal 0.5 - <0.7 Present >=0.7

Released By: Wendy Watson, MLS(ASCP), M, MB, Technical Supervisor

About These Tests:
Test results should be evaluated in relation to symptoms, clinical history, and other laboratory findings. Individuals should review their results with a healthcare provider.

These tests were developed and the performance characteristics determined by RealTime Laboratories. They have not been cleared or approved by the U.S. Food and Drug Administration (FDA). This laboratory is certified under the Clinical Laboratory Improvement Amendments (CLIA) as qualified to perform high complexity clinical laboratory testing. The New York State (NYS) Department of Health (DOH) has allowed these tests to be offered in the NYS under the current RealTime Laboratories permit. The NYS DOH has not evaluated any test claims nor reviewed the accuracy of these tests.

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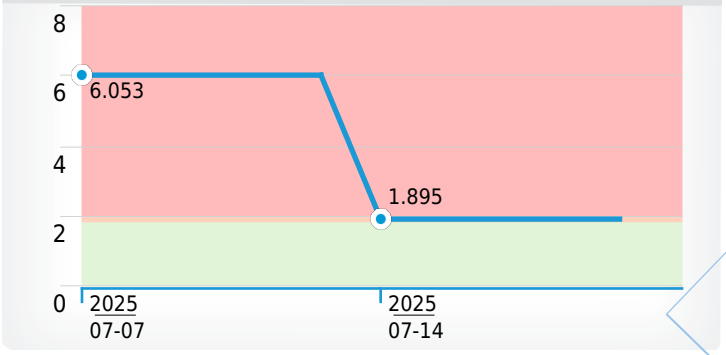
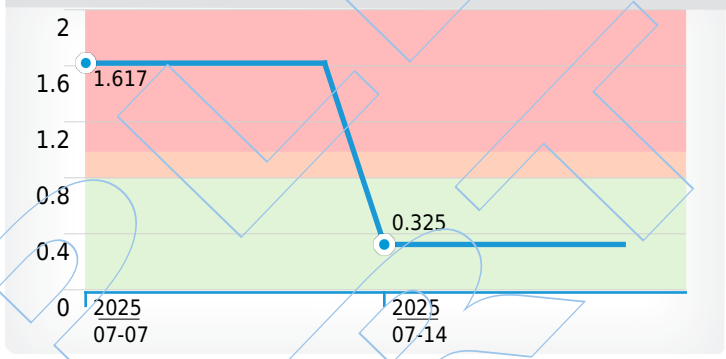
Historical Results

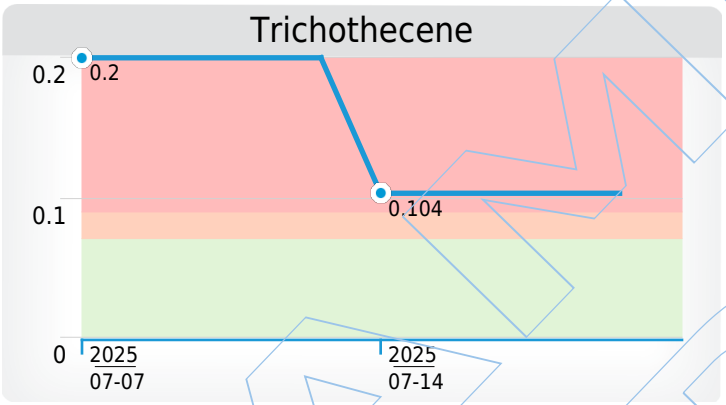
Ochratoxin



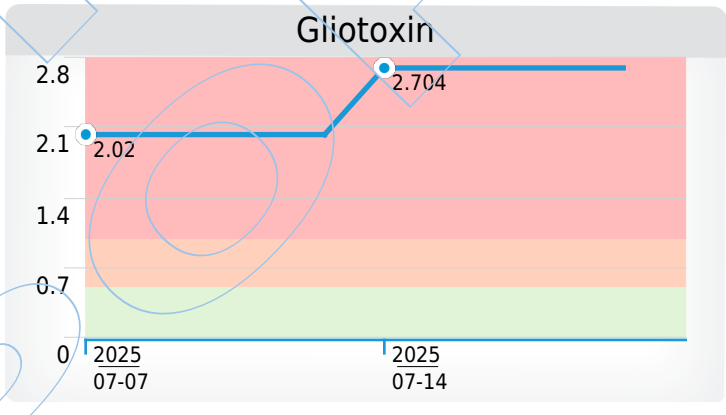
Aflatoxin



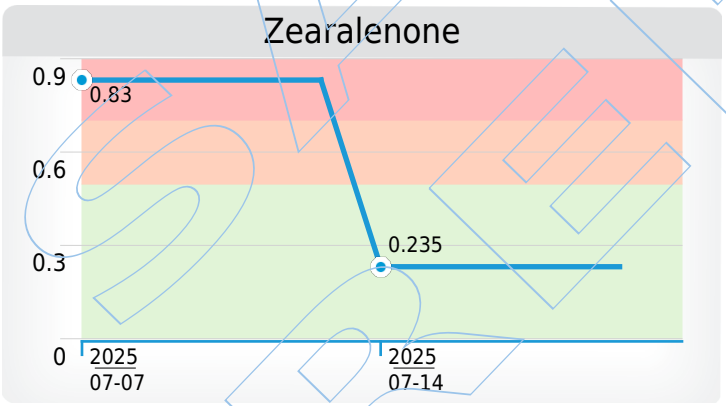
Trichothecene



Gliotoxin



Zearalenone



Accession	Collected	Ochratoxin	Aflatoxin	Trichothecene	Gliotoxin	Zearalenone
	2025-07-07	Present 6.053	Present 1.617	Present 0.2	Present 2.02	Present 0.83
	2025-07-14	Equivocal 1.895	Not Present 0.325	Present 0.104	Present 2.704	Not Present 0.235

	Mycotoxin	Cellular Activity of Mycotoxin	Symptoms/Other	Association with a "Disease State"
AFLATOXIN FAMILY **Organisms: *Aspergillus flavus, Aspergillus oryzae, Aspergillus fumigatus, Aspergillus parasiticus*** **Aflatoxins have been associated with liver cancer [2,3], cirrhosis [4,5], and other health issues**				
1	Aflatoxin B1	Binds DNA and proteins [6,7]	Shortness of breath [8], weight loss [10], most potent and highly carcinogenic.	Primarily attacks the liver, other organs include kidneys and lungs [11]
2	Aflatoxin B2	Inhibits DNA and RNA replication [12]	Impaired fetal growth [13,14]	Affects the liver and kidneys [11]
3	Aflatoxin G1	Cytotoxic, induces apoptosis in cells, DNA damage [1]	A flavus is a leading cause of invasive aspergillus in immunocompromised patients [15]	Cancer, neonatal jaundice [2,3,16]
4	Aflatoxin G2	Cancer, neonatal jaundice [2,3,16]	Aflatoxicosis in humans and animals [15]	Malnutrition, lung cancer [2,3,16]
OCHRATOXIN A **Organisms: *Aspergillus ochraceus, Aspergillus niger, Penicillium species***				
5	Ochratoxin A	Inhibits mitochondrial ATP, potent teratogen, and immune suppressor [17-19]	Fatigue, dermatitis, irritated bowel [20-22]	Kidney disease and cancer [23,24]
MACROCYCLIC TRICHOTHECENES (Group D) **Organism: *Stachybotrys chartarum***				
6	Satratoxin G	DNA, RNA, and protein synthesis inhibition [25]	Fatigue [26]	Bleeding disorders, nervous system disorders [27,28]
7	Satratoxin H	Inhibits protein synthesis [25]	Fatigue [26]	Breathing issues [29]
8	Isosatratoxin F	Immunosuppression [30]	Weakened immune system [30]	
9	Roridin A	Immunosuppression [30]	Weakened immune system [30]	
10	Roridin E	DNA, RNA, and protein synthesis disruption [25,32]	Weakened immune system [30]	Lung and nasal olfactory problems [31]
11	Roridin H	Inhibits protein synthesis [25]	Weakened immune system [30]	
12	Roridin L-2	Immunosuppression [30]	Weakened immune system [30]	
13	Verrucarin A	Immunosuppression [30]		
14	Verrucarin J	Immunosuppression [30]		
GLIOTOXIN DERIVATIVE **Organisms: *Aspergillus fumigatus, Aspergillus terreus, Aspergillus niger, Aspergillus flavus***				
15	Gliotoxin	Attacks intracellular function in immune system [34]	Memory and breathing issues [35,36]	Immune dysfunction disorders [34]
ZEARALENONE **Organisms: *Fusarium species***				
16	Zearalenone	Estrogen mimic [37,38]	Early puberty, low sperm counts, cancer [39-42]	Cancer [39,40]

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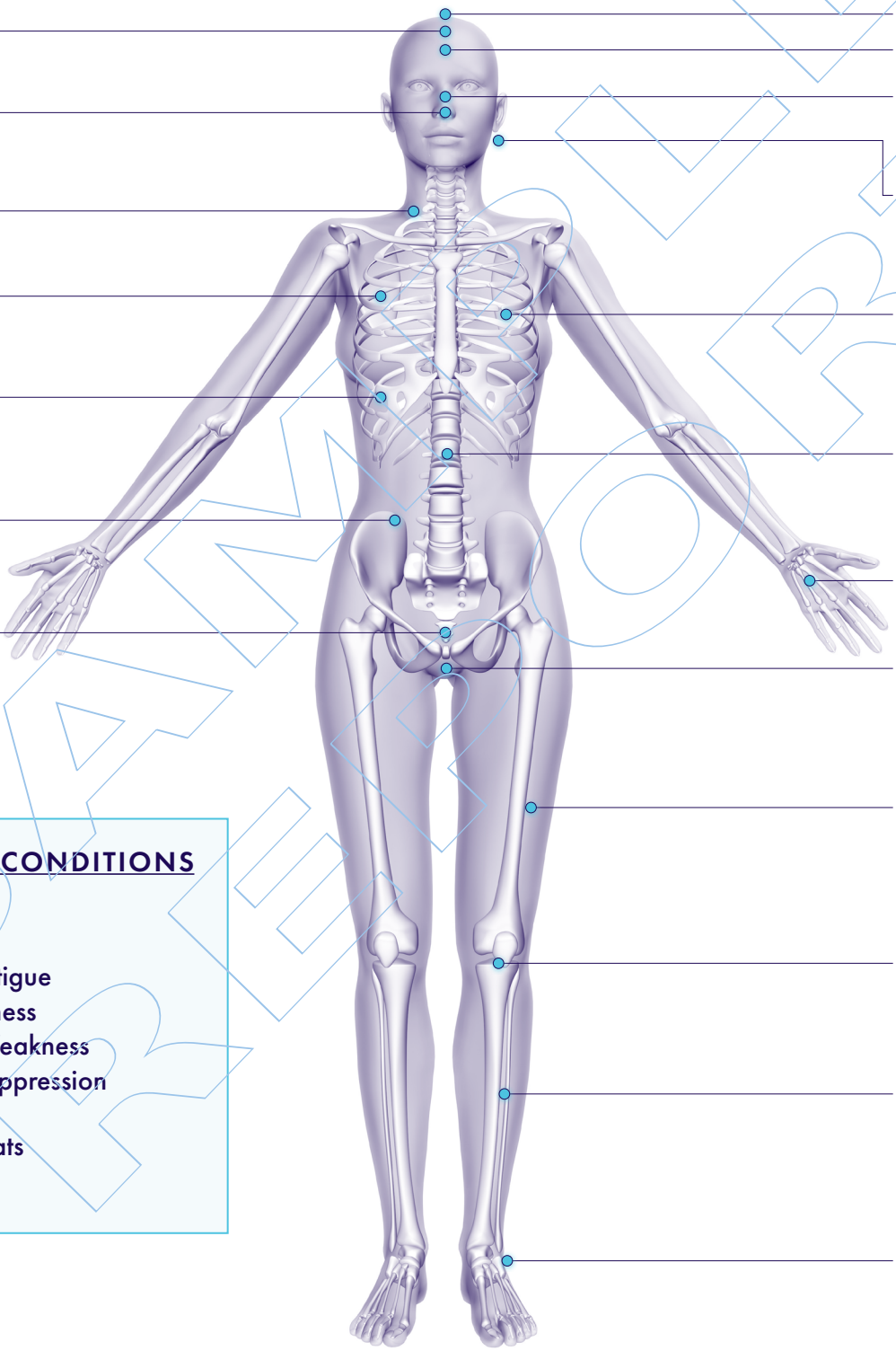
SYMPTOMS OF
Mycotoxins



- Headaches & Dizziness
- Nosebleeds
- Painful Lymph Nodes
- Asthma
- Shortness Of Breath
- Gastrointestinal distress *(such as: IBS, nausea, diarrhea, cramps, etc.)*
- Decreased Libido
- Hair Loss
- Brain Fog
- Sinusitis & Sinus Issues
- Hearing Problems
- Cardiac Arrhythmias
- Abdominal Pain and Discomfort
- Numbness and Tingling In Hands
- Uncomfortable or Frequent Unination
- Rashes & Hives
- Muscles and Joint Aches and Pains
- Fluid Retention
- Numbness and Tingling In Feet

SYSTEMIC CONDITIONS

- Depression
- Anxiety
- Chronic Fatigue
- Chronic Illness
- General Weakness
- Immune Suppression
- Anemia
- Night Sweats