



4100 Fairway Drive, Ste 600
 Carrollton, TX 75010
 www.realtimelab.com

MYCOTOXIN PANEL REPORT FORM

09/10/2020

PATIENT INFORMATION

Patient: STUFF TEST
Patient Date of Birth: 03/24/1976
Patient Sex: M
Patient MRN: MHD2974877
Patient Email: NA

ORDER INFORMATION

Accession No: TESTZEA1
Date of Report: 09/10/2020
Ordering Physician: Kelli Svendsen
Practice: Kelli Practice

SAMPLE INFORMATION

Date of Receipt: 09/10/2020
Time of Receipt: 19:27 CDT
Date of Collection: 09/9/2020
Time of Collection: 02:20 CDT
Specimen Type: Urine

LAB INFORMATION

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CLIA #: 45D1051736
CAP #: 7210193
Tax ID #: 0669342

Procedure Type: Semi-quantitative procedure by ELISA

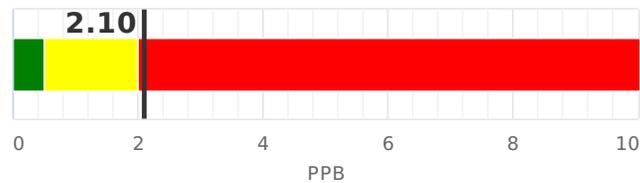
List of Mycotoxins tested in the Panel

Ochratoxin A - Procedure by ELISA
 Aflatoxin Group: (B1, B2, G1, G2) - Procedure by ELISA
 Trichothecene Group (Macrocylic): Roridin A, Roridin E, Roridin H, Roridin L-2, Verrucaridin A, Verrucaridin J, Satratoxin G, Satratoxin H, Isosatratoxin F - Procedure by ELISA
 Gliotoxin Derivative - Procedure by ELISA
 Zearalenone - Procedure by ELISA

Results:

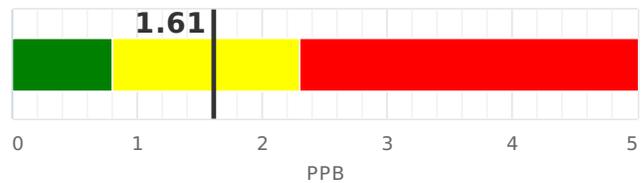
Code	Test	Specimen	Value	Result	Not Present if less than	Equivocal if between	Present if greater or equal
E8501	Ochratoxin A	Urine	2.09700 ppb	Present	1.8 ppb	1.8-2.0 ppb	2.0 ppb
E8502	Aflatoxin Group: (B1, B2, G1, G2)	Urine	1.61500 ppb	Present	0.8 ppb	0.8-1.0 ppb	1.0 ppb
E8503	Trichothecene Group (Macrocylic): Roridin A, Roridin E, Roridin H, Roridin L-2, Verrucaridin A, Verrucaridin J, Satratoxin G, Satratoxin H, Isosatratoxin F	Urine	0.02852 ppb	Equivocal	0.02 ppb	0.02-0.03 ppb	0.03 ppb
E8510	Gliotoxin Derivative	Urine	7.08600 ppb	Present	0.5 ppb	0.5-1.0 ppb	1.0 ppb
E8512	Zearalenone	Urine	> 1.0 ppb	Present	0.5 ppb	0.5-0.7ppb	0.5 ppb

OCHRATOXIN



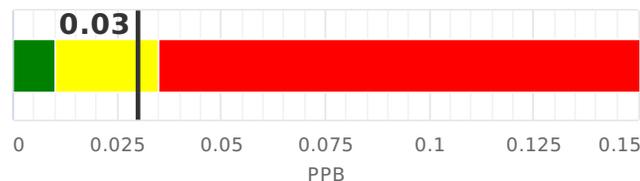
● Not Present (0-0.5) ● Equivocal (0.5-1.5) ● Present (1.5-10)

AFLATOXIN



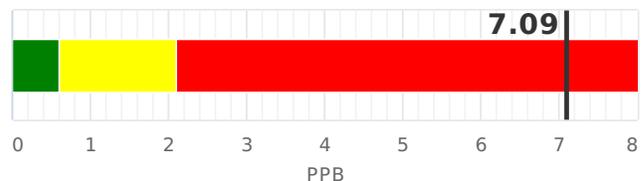
● Not Present (0-0.8) ● Equivocal (0.8-1.5) ● Present (1.5-5)

TRICHOHECENE



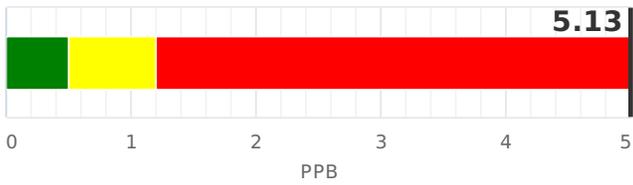
● Not Present (0-0.01) ● Equivocal (0.01-0.025) ● Present (0.025-0.15)

GLIOTOXIN



● Not Present (0-0.6) ● Equivocal (0.6-1.5) ● Present (1.5-8)

ZEARALENONE



● Not Present (0-0.5) ● Equivocal (0.5-0.7) ● Present (0.7-5)

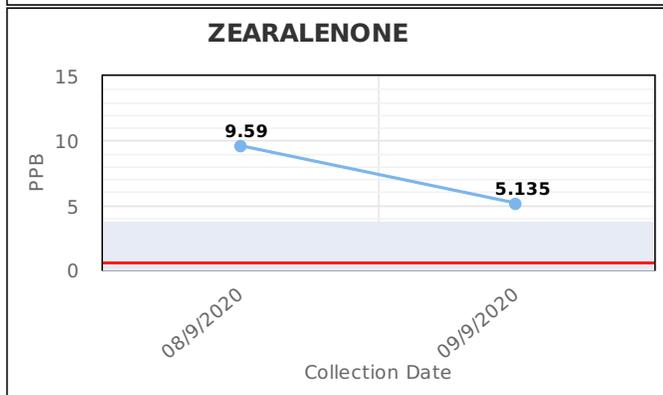
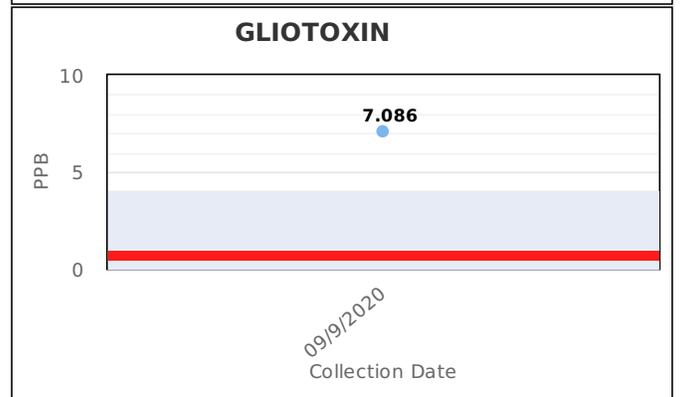
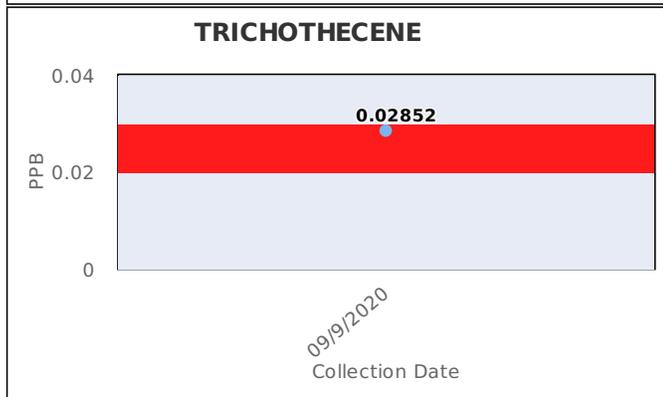
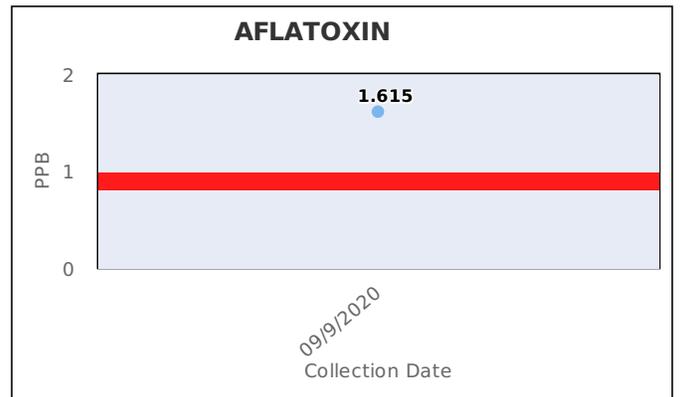
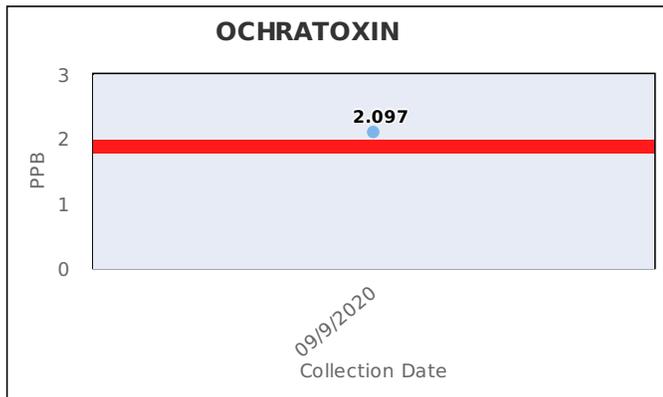
Signature

Director Signature _____

Tests such as this should be used only in conjunction with other medically established diagnostic elements (e.g., symptoms, history, clinical impressions, results from other tests, etc). Physicians should use all the information available to them to diagnose and determine appropriate treatment for their patients.

Disclaimer: This test was developed and its performance characteristics determined by RealTime Lab. It has not been cleared or approved by the U.S. Food and Drug Administration. The FDA has determined that such clearance or approval is not necessary. This laboratory is certified under the Clinical Laboratory Improvement Amendments of 1988 (CLIA-88) as qualified to perform high complexity clinical laboratory testing.

Historical Results:



Results Summary:

Accession No	Collection Date	Ochra Result	Afla Result	Tricho Result	Gliotoxin Result	Zearalenone Result
TESTZEA1	09/9/2020	2.09700 - Present	1.61500 - Present	0.02852 - Equivocal	7.08600 - Present	5.13500 - Present
KKTESTZ-3	08/9/2020					9.59000 - Present

BRIEF EXPLANATION ON MYCOTOXIN PANEL

For any further question on the test report please schedule a consult with our medical staff at www.realtimelab.com

	Mycotoxin	Cellular activity of Mycotoxin	Symptoms/Others	Association with a "Disease State"
AFLATOXIN FAMILY—Organisms: <i>Aspergillus flavus</i>, <i>Aspergillus oryzae</i>, <i>Aspergillus fumigatus</i>, <i>Aspergillus parasiticus</i>				
Aflatoxins have been linked to liver cancer, hepatitis, cirrhosis, and other health issues				
1	B1	Binds DNA and proteins	Shortness of breath, weight loss, most potent and highly carcinogenic.	Primarily attacks the liver, other organs include kidneys and lungs.
2	B2	Inhibits DNA, RNA, and protein metabolism	Enters the body through the lungs, mucous membranes (nose and mouth), or the skin.	Affects the liver and kidneys. Less potent than B1. The order of toxicity is B1 greater than G1, greater than G2, greater than B2.
3	G1	Adversely affects the immune system	<i>A. flavus</i> second leading cause of invasive aspergillosis in immunocompromised patients.	Cancer, chronic hepatitis, and jaundice. Reye's Syndrome.
4	G2	Immunosuppression	Mitochondrial damage. Aflatoxicosis in Humans and Animals.	Hepatitis, malnutrition, lung cancer.
OCHRATOXIN A —Organisms: <i>Aspergillus ochraceus</i>, <i>Aspergillus niger</i>, and <i>Penicillium</i> species				
5	Ochratoxin A	Interferes with cellular physiology, inhibits mitochondrial ATP production, and stimulates lipid peroxidation	A potent teratogen and immune--- suppressant. 30---day ½ life in blood; indefinite existence intra---cellular.	Kidney disease, cancer, infection of bladder. Nephrotoxic. Hepatotoxic.
TRICHOECENE FAMILY (MACROCYCLIC) —Group D Organism: <i>Stachybotrys chartarum</i>				
6	Satratoxin G	DNA, RNA and protein synthesis, intracellular	Bleeding disorders, central nervous and peripheral nerve disorders. Most potent inhibitors of protein synthesis.	Wide range of GI problems, skin inflammation, vomiting and damage to blood producing cells. Highly toxic.
7	Satratoxin H	Inhibits protein synthesis	Found in damp or water---damaged environment.	Vision problems, GI problems, breathing issues.
8	Isosatratoxin F	Immunosuppression	Causes of health problems due to poor air quality.	Contributor to "sick building syndrome"
9	Roridin A	Nasal inflammation, excess mucus secretion, and damage to the olfactory system	Acute and chronic respiratory tract health problems.	Acute and chronic lung and nasal problems.
10	Roridin E	Disrupt the synthesis of DNA, RNA, and protein	Roridin E grows in moist indoor environments.	Can impact every cell in the body.
11	Roridin H	Inhibits protein synthesis	Grows well on many building materials subject to damp conditions.	Lymphoid necrosis and dysregulation of IgA production.
12	Roridin L-2	Immunosuppression	Grows on wood---fiber, boards, ceiling tiles, water---damaged gypsum board, and HVAC ducts.	Easily airborne and inhaled by occupants of an infected building.
13	Verrucaric A	Immunosuppression, nausea, vomiting, weight loss	Found mostly in damp environments.	One of the most toxic trichothecenes.
14	Verrucaric J	Can easily cross cell membranes	Absorbed through the mouth and the skin.	Small enough to be airborne and easily inhaled.
GLIOTOXIN DERIVATIVE—Organisms: <i>Aspergillus fumigatus</i>, <i>Aspergillus terreus</i>, <i>Aspergillus niger</i>, <i>Aspergillus flavus</i>				
15	Gliotoxin	Attacks intracellular function in immune system	Lung disorders, brain dysfunction, bone marrow dysfunction.	Immune dysfunction disorders. Aspergillosis, association with tumors of brain, lung.
Zearalenone —Organisms: <i>Fusarium graminearum</i>, <i>Fusarium culmorum</i>, <i>Fusarium cerealis</i>, <i>Fusarium equiseti</i>, <i>Fusarium verticillioides</i>, <i>Fusarium incarnatum</i>				
16	Zearalenone	Estrogen mimic	Enters the body through the lungs, mucous membranes, or the skin	Can lead to reproductive issues such as low sperm count, inability to ovulate, spontaneous abortions. May lead to early puberty in girls.

References : <https://realtimelab.com/gliotoxin/>; <https://realtimelab.com/aflatoxins/>; <https://realtimelab.com/trichothecenes/>; <https://realtimelab.com/ochratoxins/>; <https://realtimelab.com/molds/>

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