NutriPATH
INTEGRATIVE PATHOLOGY SERVICES
P: 1300 688 522
E: info@nutripath.com.au

SAMPLE REPORT
09-May-1990 Female

16 HARKER STREET
BURWOOD VIC 3125

Dr.SAMPLE REPORT
TEST HEALTH CENTRE
123 TEST STREET
BURWOOD VIC 3125

LAB ID : 3814149
UR NO. :
Collection Date : 09-May-2022
Received Date:09-May-2022

3814149

EXTERNALLY REFERRED

URINE, SPOT Result Range Units

Mycotoxins Ext. Panel, Initial Test

MYCOTOXIN	RESULT	VALUE	REFERENCE RANGE
Ochratoxin A	Negative	1.28900 ppb	(R.R: 0 - 1.80 ppb)
Aflatoxin Group	**POSITIVE**	**1.37000** ppb	(R.R: 0 - 0.80 ppb)
Trichothecene Group	EQUIVOCAL	0.02700 ppb	(R.R: 0 - 0.04 ppb)
Gliotoxin Derivative	**POSITIVE**	**1.69300** ppb	(R.R: Less than 0.5 ppb)
Zearalenone	Negative	0.20000 ppb	(R.R: Less than 0.5 ppb)

Reference Range Interpretation:

Mycotoxin	Negative Range	Equivocal Range	**POSITIVE Range**
Ochratoxin A	<1.80 ppb	1.80 - 2.00 ppb	>2.0 ppb
Aflatoxin Group	<0.80 ppb	0.80 - 1.00 ppb	>1.0 ppb
Trichothecene Group	<0.04 ppb	0.04 - 0.08 ppb	>0.08 ppb
Gliotoxin Derivative	<0.50 ppb	0.50 - 1.00 ppb	>1.00 ppb
Zearalenone	<0.50 ppb	0.50 - 0.70 ppb	>0.70 ppb

Testing performed at Real Time Labs, Carrollton, TX, USA.

COMMENTS:
Mycotoxins are low molecular weight secondary metabolites produced by moulds that;
1. Are not essential in maintaining the lifecycle of the mold
2. But give the mold a competitive advantage over other organisms (bacteria and molds)

Mycotoxins are more commonly known to be present through ingestion of food but airborne contamination (inhaling mouldy air in damp indoor areas) is being recognized as a cause as well.

Mycotoxins
1. bind to DNA and RNA and alter regular protein synthesis and function,
2. cause oxidative stress through antioxidant depletion,
3. alter cell membrane function and transport.

The following are the key mycotoxins and the organisms that produce them;

MYCOTOXIN	ORGANISM/S and EFFECTS
Aflatoxin	Causative Organism/s - Aspergillus flavus, Aspergillus parasiticus Effects - Inhibit Protein synthesis, cause immune suppression, - Primary target liver but also found in lung and brain
Ochratoxin A	Causative Organism/s - Aspergillus ochraceus, Aspergillus niger, Aspergillus carbonarius Penicillium verrucsum, Penicillium nordicum, Penicillium chrysogenum Effects - Inhibits phenylalanine tRNA synthetase and mitochondrial ATP production, stimulates lipid peroxidation, suppresses antibody production and globulin synthesis - Found in grains, coffee beans and some wines - Primary target is kidney (Nephrotoxic) - Associated with UTIs and bladder cancer

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MYCOTOXIN	**ORGANISM/S and EFFECTS**
Macrocyclic Trichothecenes	Causative Organism/s - Stachybotrys chartarum (black mould in buildings), Trichoderma (Produce toxins Roridin, Satratoxin, Verrucarin) Effects - Inhibits protein synthesis, peptidyl synthesis, causes lymphoid necrosis and dysregulation of IgA production - Immunosuppression, nausea, vomiting, weight loss
Gliotoxin	Causative Organism/s - Aspergillus versicolor, Aspergillus fumigatus Effects - Inhibits macrophage phagocytosis, induces macrophage apoptosis, blocks T and B cell Activation - Immunosuppression, in-vivo displays anti-inflammatory activity
Zearalenone	Effects - Has strong affinity to Estrogen Receptor, increasing activation of this receptor and leading to numerous endocrinology disorders. (Low sperm count, abnormal levels of Progesterone, disruption of ovulation) - Reduces integrity of gut lining leading to intestinal hyperpermeability. - Reduces gut microbiota diversity. - Down regulates expression of tumour suppression genes leading to higher risk of GIT cancer.

Tests ordered: IMPEI,MycotoxEI