

Company: Sample Report

Accession #:

Collected:

Address: ,

Received:

Sample Type: Pet Urine

Completed:

Test	Result	Value (ppb)	Reference Range
Gliotoxin Derivative	Equivocal	0.600	Not Present <0.5 Equivocal 0.5 - <1 Present >=1
Trichothecene Group (Macrocyclic):	Not Present	0.060	Not Present <0.07 Equivocal 0.07 - <0.09 Present >=0.09
Roridin A			
Roridin E			
Roridin H			
Roridin L-2			
Verrucarin A			
Verrucarin J			
Satratoxin G			
Satratoxin H			
Isosatratoxin F			
Ochratoxin A	Equivocal	1.900	Not Present <1.8 Equivocal 1.8 - <2 Present >=2
Aflatoxin Group:	Equivocal	0.900	Not Present <0.8 Equivocal 0.8 - <1 Present >=1
Aflatoxin B1			
Aflatoxin B2			
Aflatoxin G1			
Aflatoxin G2			
Zearalenone	Equivocal	0.600	Not Present <0.5 Equivocal 0.5 - <0.7 Present >=0.7

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

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Mycotoxin	Cellular Activity of Mycotoxin	Symptoms/Other	Association with a "Disease State"
A FLA TOXIN FAMILY			
Organisms: <i>Aspergillus flavus</i>, <i>Aspergillus oryzae</i>, <i>Aspergillus fumigatus</i>, <i>Aspergillus parasiticus</i> 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.
2	Aflatoxin B2	Inhibits DNA and RNA replication [12]	Impaired fetal growth [13,14]
3	Aflatoxin G1	Cytotoxic, induces apoptosis in cells, DNA damage [1]	A flavus is a leading cause of invasive aspergillus in immunocompromised patients [15]
4	Aflatoxin G2	Cancer, neonatal jaundice [2,3,16]	Aflatoxicosis in humans and animals [15]
OCHRATOXIN A			
Organisms: <i>Aspergillus ochraceus</i>, <i>Aspergillus niger</i>, <i>Penicillium species</i>			
5	Ochratoxin A	Inhibits mitochondrial ATP, potent teratogen, and immune suppressor [17-19]	Fatigue, dermatitis, irritated bowel [20-22]
MA CROCYCLIC TRICHOHECENES (Group D)			
Organism: <i>Stachybotrys chartarum</i>			
6	Satratoxin G	DNA, RNA, and protein synthesis inhibition [25]	Fatigue [26]
7	Satratoxin H	Inhibits protein synthesis [25]	Fatigue [26]
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]
11	Roridin H	Inhibits protein synthesis [25]	Weakened immune system [30]
12	Roridin L-2	Immunosuppression [30]	Weakened immune system [30]
13	Verrucaric acid	Immunosuppression [30]	
14	Verrucaric acid	Immunosuppression [30]	
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 [34]	Memory and breathing issues [35,36]
ZEARALENONE			
Organisms: <i>Fusarium species</i>			
16	Zearalenone	Estrogen mimic [37,38]	Early puberty, low sperm counts, cancer [39-42]

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