

ArminLabs | MVZ für Integrative Diagnostik und Medizin GmbH - branch practice - Zirbelstr. 58 2nd floor · 86154 Augsburg · Germany

MVZ für Integrative Diagnostik
und Medizin GmbH
Zirbelstr. 58

D 86154 Augsburg

Patient :

Date of Birth:

Final report

Order-ID : **Page 1 / 1**

Date of Reception/Report :

Analysis	Result	Units	Reference Range	Chart
ToxiPlex				
6 Aflatoxin B1	negative		negative	
6 Deoxynivalenol	62.4	ppb	negative	
6 Fumonisin (B1+B2)	negative		negative	
6 Ochratoxin A	312.5	ppb	negative	
6 Zearalenone	negative		negative	

Mycotoxin type	Detected (YES / NO)	Calculated concentration (ppb)	Plate controls
Aflatoxin B1 (AFB1)	NO	< 0.61	Positive PASS
Deoxynivalenol (DON)	YES	62.4	
Fumonisin (FUM)	NO	< 4.88	Negative PASS
Ochratoxin A (OTA)	YES	> 312.5	
Zearalenone (ZEA)	NO	< 0.15	

Serologically evidence of an immune reaction against the Deoxynivalenol and Ochratoxin A by TOXIPLEX BASIC test.

»Deoxynivalenol: Belonging to the mycotoxin family of trichothecenes, this is found mainly in cereals, such as wheat and beans, as well as in spices. It can also be found in homes, basements, on the filters of air conditioners in cars or triggered through moisture or water damage.

Because it is metabolised rapidly, short-term symptoms may include nausea, vomiting, abdominal pain, headache, dizziness, and fever. Effects at the cellular level are due to binding to ribosomal subunits and inhibition of protein synthesis. Membrane function is thought to be altered due to lipid peroxidation, and intercellular communication and deregulation of calcium homeostasis may be affected.

»Ochratoxin A: A mycotoxin found primarily in cereals especially wheat and barley, as well as their products such as dried fruit, spices, licorice, coffee beans, wine, grape juice and roots. It can also occur in meat from animals that have consumed contaminated grains. It is mainly produced by fungi in the genera *Aspergillus* and *Penicillium*. Ochratoxin A has also been detected in dust samples of airborne particulates in relevant environments. Ochratoxin A is associated with endemic nephropathy in humans, as well as urinary tract tumours. There are numerous records of nephrotoxic, hepatotoxic, teratogenic, and immunotoxic damage from this mycotoxin in livestock, but only a few reports of human health effects, which is why IARC classifies it as a Group 2B possible human carcinogen.

validated by

Dr. Armin Schwarzbach, AL Dr. Mihail Pruteanu

~) Analysis in Contract Laboratory

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