



Requisition #:	1085301	Physician Name:	FRANCES MEREDITH MD
Patient Name:	Lindsey Carver	Date of Collection:	Jul 13, 2022
Date of Birth:	Mar 26, 1989	Time of Collection:	Not Given
Gender:	F	Print Date:	Jul 22, 2022
Specimen Id.:	1085301-2		

## Mycotoxin Profile

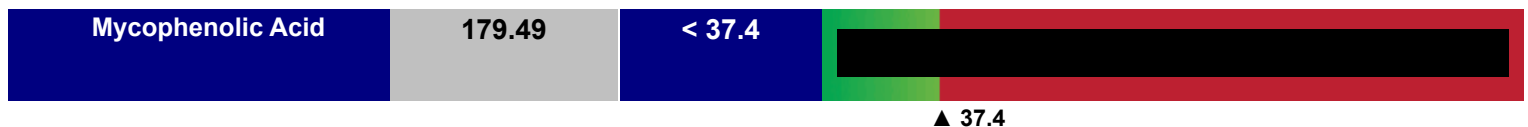
**Creatinine Value:** 99.20 mg/dl

Metabolite	Results (ng/g creatinine)	Normal Range *	Abnormal Range
------------	------------------------------	----------------	----------------

### Aspergillus



### Penicillium



Please be advised that the patient has indicated on the test requisition form that they are taking a medication that may affect the concentration of mycophenolic acid.

\* The normal range was calculated using the median + 2 times the standard deviation

Testing performed by The Great Plains Laboratory, LLC., Overland Park, Kansas. The Great Plains Laboratory has developed and determined the performance characteristics of this test. The test has not been evaluated by the U.S. Food and Drug Administration. The FDA does not currently regulate such testing.



Requisition #:	1085301	Physician Name:	FRANCES MEREDITH MD
Patient Name:	Lindsey Carver	Date of Collection:	Jul 13, 2022
Date of Birth:	Mar 26, 1989	Time of Collection:	Not Given
Gender:	F	Print Date:	Jul 22, 2022
Specimen Id.:	1085301-2		

## Mycotoxin Profile

Metabolite	Results (ng/g creatinine)	Normal Range *	Abnormal Range
------------	------------------------------	----------------	----------------

### Stachybotrys



### Fusarium



\* The normal range was calculated using the median + 2 times the standard deviation

Testing performed by The Great Plains Laboratory, LLC., Overland Park, Kansas. The Great Plains Laboratory has developed and determined the performance characteristics of this test. The test has not been evaluated by the U.S. Food and Drug Administration. The FDA does not currently regulate such testing.



Requisition #:	1085301	Physician Name:	FRANCES MEREDITH MD
Patient Name:	Lindsey Carver	Date of Collection:	Jul 13, 2022
Date of Birth:	Mar 26, 1989	Time of Collection:	Not Given
Gender:	F	Print Date:	Jul 22, 2022
Specimen Id.:	1085301-2		

Chaetomium globosum



Multiple Mold Species



Testing performed by The Great Plains Laboratory, LLC., Overland Park, Kansas. The Great Plains Laboratory has developed and determined the performance characteristics of this test. The test has not been evaluated by the U.S. Food and Drug Administration. The FDA does not currently regulate such testing.



Requisition #:	1085301	Physician Name:	FRANCES MEREDITH MD
Patient Name:	Lindsey Carver	Date of Collection:	Jul 13, 2022
Date of Birth:	Mar 26, 1989	Time of Collection:	Not Given
Gender:	F	Print Date:	Jul 22, 2022
Specimen Id.:	1085301-2		

**Ochratoxin:** Ochratoxin A (OTA) is a nephrotoxic, immunotoxic, and carcinogenic mycotoxin. This chemical is produced by molds in the *Aspergillus* and *Penicillium* families. Exposure is done primarily through water damaged buildings. Minimal exposure can occur through contaminated foods such as cereals, grape juices, dairy, spices, wine, dried vine fruit, and coffee. Exposure to OTA can also come from inhalation exposure in water-damaged buildings. OTA can lead to kidney disease and adverse neurological effects. Studies have shown that OTA can lead to significant oxidative damage to multiple brain regions and is highly nephrotoxic. Dopamine levels in the brain of mice have been shown to be decreased after exposure to OTA. Some studies have hypothesized that OTA may contribute to the development of neurodegenerative diseases such as Alzheimer's and Parkinson's. Treatment should be aimed at removing the source of exposure. Agents such as oral cholestyramine, charcoal, and phenylalanine can help prevent the absorption of these toxins from food. Antioxidants such as vitamins A, E, C, NAC, rosmarinic acid, and liposomal glutathione alone or in combination have been shown to mitigate the oxidative effects of the toxin. Bentonite or zeolite clay is reported to reduce the absorption of multiple mycotoxins found in food, including OTA. Studies have also shown that OTA is present in sweat, which supports the use of sauna as a treatment to increase the excretion of OTA. Retesting is recommended after 3-6 months of treatment.

(PMID 17195275, 16293235, 27521635, 22069626, 24792326, 22253638, 16140385, 2467220, 16844142, 19148691, 22069658, 16019795, 18286403, 15781206, 11439224, 17092826, 32710148)

**Mycophenolic Acid:** Mycophenolic Acid (MPA) is an antifungal, antibacterial, and antiviral mycotoxin acid. It is produced by the *Penicillium* fungus. MPA is an immunosuppressant which inhibits the proliferation of B and T lymphocytes. MPA exposure can increase the risk of opportunistic infections such as clostridia and *Candida*. MPA is associated with miscarriage and congenital malformations when the woman is exposed in pregnancy. Retesting is recommended after 3-6 months of treatment. Mycophenolic acid is used as a pharmaceutical under the brand names CellCept, Myfortic and others. Mycophenolic acid cannot be used as a marker for mold if the person is taking the pharmaceutical.

(PMID: 858824, 28646113, 27809954, 27599910)

Testing performed by The Great Plains Laboratory, LLC., Overland Park, Kansas. The Great Plains Laboratory has developed and determined the performance characteristics of this test. The test has not been evaluated by the U.S. Food and Drug Administration. The FDA does not currently regulate such testing.