

Manganese, Mn

General:

Most manganese is bound to blood cells. A free part is present in a very low concentration. Manganese is an essential trace element. In case of continuous exposure it can result in intoxication (manganism) which presents with neurological symptoms.

Indication:

deficiency very rare, intoxication in occupational exposure

The following tests are available:

- **Manganese in EDTA blood**

Material: 1 ml EDTA blood

TAT: 7-10 days*

Method: IPMS

Units: µg/l

Ref.- range: <10

- **Manganese in urine**

Material: 10 ml urine

TAT: 7-10 days*

Method: Atomic absorption, Zeeman correction

Units: µg/l

Ref.- range: up to 5.00

- **Manganese in hair**

Material: 250 mg hair

Preanalytics: Human hair grows an average of 1.0 cm/month. Testing laboratories generally require between 2.0 and 3.0 cm length for testing, the tuft should be 1.0 cm in diameter. This represents approximately 30 to 90 days of drug use. In the absence of the required amount of hair on the scalp, body hair can be used as an acceptable alternative (face, chest, arm pit, and leg hair).

TAT: 7-10 days*

Method: IPMS

Units: µg/g

Ref.- range: see report

- **Manganese in Heparin Blood**

Material: 3 ml Heparin Blood

TAT: 7-10 days*

Method: IPMS

Units: µg/g

Ref.- range: 5.5 - 14.0

For complete list of laboratory test offered at Freiburg Medical Laboratory, please visit <http://www.fml-dubai.com/parameter-listings/>