

# Thallium Tl

## General:

The monovalent Thallium is considered by the organism as K<sup>+</sup> (potassium), as far as absorption, distribution and excretion are concerned. It is resorbed fast and accumulates particularly in skin. The partial reabsorption in the kidney leads to a delayed excretion and to a half life of 14 days. An acute thallium intoxication is suspected in general enteritis with heavy vomiting cramps and diarrhea, in toxic polyneuropathy (paresthesia, hyperesthesia) up to persisting peripheral paralyses and emotional deficiencies. Furthermore hair loss, trophic defects of the skin, and vegetative system disturbances.

The following tests are available:

- **Thallium in serum**

Indication: Thallium intoxication e.g. by rat or pigeon poison

Material: 1 ml serum

TAT: 2 weeks\*

Method: IPMS

Units: µg/l

Ref.- range: <0.6

- **Thallium in urine**

Material: 10 ml urine

Preanalytics: possibly also 10 ml stomach contents

TAT: 2 weeks\*

Method: IPMS

Units: µg/l

Ref.- range: <0.5

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