

# Nickel Ni

## General:

Nickel metal, nickel salts and nickel carbonyl are of toxicological interest. Nickel can induce contact eczema (contact dermatitis; allergy type IV). Especially in persons working in the galvanic industry, skin disturbances ("nickel scabies") arise from nickel sulfate on hands, arms or face. Nickel tetracarbonyl is one of the strongest inhalation poisons and rapidly leads to irritations of the respiratory tract (cough, bronchitis, toxic lung edema) and in case of reabsorption to headaches, dizziness and nausea. Nickel dust has a carcinogenic effect (paranasal sinusoidal and mucous membrane carcinomas).

The following tests are available:

- **Nickel in serum**

Indication: industrial medical supervision

Material: 2 ml serum

TAT: 7-10 days\*

Method: AAS

Units:  $\mu\text{g/l}$

Ref.- range: <1.0

- **Nickel in urine**

Material: 10 ml urine

Preanalytics: cooled

TAT: 7-10 days\*

Method: ICPMS

Units:  $\mu\text{g/l}$

Ref.- range: see report

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