

Nicotine

General:

Nicotine accumulates in the blood system by inhalative smoking. Cotinine (pyrrolidinone) is formed by biotransformation in the liver and is secreted renally. The half-life is 10-16 hours, thus in normal smokers (approx. 10 cigarettes per day) cotinine is still detectable 3 days after stopping smoking. The metabolite is also detectable in passive smokers. Nicotine substitutes (e.g. nicotine chewing gums) are also detected by the test.

Indication:

Risk estimation by active and passive smoking.

The following tests are available:

- **Cotinine in urine**

Material: 10 ml urine

Preanalytics: random urine, preferable morning urine

TAT: 7-10 days*

Method: LCMS

Units: µg/l

Ref.- range: see report

- **Cotinine in serum**

Material: 1 ml serum

TAT: 7-10 days*

Method: LCMS

Units: µg/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/>