

Cocaine

General:

Cocaine is an alkaloid from leaves of the coca bush (*Erythroxolon coca*, *E. novogranatense*), synthetically produced from benzoyl ecgonine (methylester of the benzoyl ecgonine). It is used as white powder or added as a component of designer drugs (e.g. crack). Application by sniffing, i.v., in alcoholic drinks, smoking and inhaling in purified form. Mescaline-like effect, hallucinogenic, acts as anesthetic on mucous membranes, stimulating, in high doses paralyzing effect. Lethal dose orally 1-2 g, s.c. at 0.2-0.3 g, when applied i.v. 20 mg. Cocaine derivatives are used in the medical field as anesthetics. Metabolization mainly via liver. Via kidney, cocaine is predominantly secreted as benzoyl ecgonine.

The following tests are available:

- **Cocaine in serum**

Material: 1 ml serum

TAT: 7-10 days*

Method: GCMS

Units: µg/l

Ref.- range: <50.0

- **Cocaine main metabolite urine, quantitative**

General:

Detectable in urine up to 4 days in dependence of consume.

Material: 10 ml urine

TAT: 7-10 days*

Method: GCMS

Units: µg/L

Ref. -range: see report

- **Cocaine in urine, quantitative**

Indication: Suspicion of drug abuse of cocaine products, designer drugs, e.g. crack or similar products, monitoring during therapy, confirmatory test.

Material: 10 ml urine

TAT: 7-10 days*

Method: GCMS

- **Cocaine in urine, qualitative (See Drug Screening)**

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