

Troponin

General:

Troponin is, together with actin, myosin, and tropomyosin a structural component of the contractile apparatus of striated muscles. Troponin consists of three subunits: troponin I, T and C. The troponins are proteins of the heart muscle with high organ specificity. They form a complex, in which troponin C binds calcium, troponin T binds tropomyosin and troponin I binds actin. If the myocard is damaged troponin values increase. Troponin is a specific, early and stable marker in myocard infarction.

The following tests are available:

- **Troponin I**

Indication: like troponin T, also with graft-versus-host reactions after heart transplantation, suspicion of myocarditis with renal failure, organ failure and muscle diseases.

Material: 1 ml serum

TAT: 7-10 days*

Method: CLIA

Units: pg/ml

Ref.range: see report

- **Troponin T, high sensitive**

Indication: acute myocardial infarction, micro infarctions, instable angina pectoris, late subacute infarction (< 5 days), infarction with polytrauma or operations, risk factor in angina pectoris.

Material: 1 ml serum

Stability: 1 day at 2 to 8°C

TAT: same day

Method: ECLIA

Units: ng/ml

Ref.range: <0.030

Date: If the patient is taking multivitamins or dietary supplements containing high dose of Biotin (> 5 mg), the patient should stop taking it for at least 24 hours, before having the blood collection.

For complete list of laboratory test offered at Freiburg Medical Laboratory, please visit

<http://www.fml-dubai.com/parameter-listings/>