TROP T Sensitive rapid assay
Myocardial assessment
Saves valuable time! The TROP T Sensitive rapid assay is easy to use, and the result is easy to read. The one-step test requires anticoagulated venous blood. It gives a reliable “yes/no” result within a 15 minute reaction time.7


TROP T Sensitive rapid assay
Reveals damage that other markers miss

When myocardial damage is suspected, every minute counts. The TROP T Sensitive rapid assay allows rapid determination of the cardiac marker Troponin T from a single whole blood sample. A qualitative result is available within minutes – saving you precious time in emergency situations.
Troponin T is a highly specific and sensitive marker of myocardial damage. Numerous studies have confirmed this. Determination of troponin T in the patients’ blood does not only allow detection of acute myocardial infarction but also recognition of minor myocardial damage (MMD). MMD is often missed using traditional diagnostic methods.

A positive troponin T test in a patient without characteristic ECG changes indicates increased medium- to long-term risk of a serious coronary event. This makes Troponin T an excellent prognostic indicator of increased risk for further cardiac problems. Patients with an elevated troponin T value (≥ 0.1 ng/mL) therefore require further testing, even if the ECG is unremarkable and symptoms are not clear-cut. Research has shown that the same seems to be true for patients with chronic renal insufficiency.
Many patients only seek medical attention hours or even days after the onset of chest pain, especially on weekends. With the TROP T Sensitive rapid assay you can make a diagnosis even after several days (up to 10–14 days) after myocardial damage occurs.

**Evaluation of test results from patients with chest pain and suspected myocardial infarction***:

<table>
<thead>
<tr>
<th>Scenario</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Typical symptoms or ECG clearly positive</td>
<td>Emergency hospital admission with physician in attendance</td>
</tr>
<tr>
<td>Atypical symptoms, ECG inconclusive</td>
<td>Emergency hospital admission with physician in attendance</td>
</tr>
<tr>
<td>Atypical symptoms, ECG inconclusive when TnT positive</td>
<td>Repeat ECG and TnT after 6 hours. If ECG normal, TnT negative and symptoms atypical: further outpatient investigation</td>
</tr>
<tr>
<td>Atypical symptoms, ECG inconclusive when TnT negative</td>
<td>Repeat ECG and TnT after 6 hours. If ECG normal, TnT negative and symptoms atypical: further outpatient investigation</td>
</tr>
</tbody>
</table>

* According to the recommendation by the German expert committee for inclusion and evaluation of TROP T Rapid Test in the Doctors’ Fees Tariff, January 10th, 1996.
Troponin T as criterion for making a therapy decision

Elevated troponin T levels (≥ 0.1 ng/mL) can be used to select therapy for unstable angina. In patients with refractory unstable angina, it has been shown that treatment with a platelet aggregation inhibitor (GPIIb/IIIa inhibitor) or low molecular weight heparin is most effective in patients with increased troponin T values.

Further investigations show that using troponin T tests for determining treatment with a GPIIb/IIIa inhibitor is cost-effective.
**TROP T Sensitive**

*How to perform the test*

Remove the strip from the package and place it on a flat surface. Use either EDTA or heparinized venous blood!

- **Obtain the blood sample**
- **Draw up 150 µL (± 15 µL)** blood into the dispensing aid
- **Apply the sample to the test strip and read result after 15 minutes**

*a) Single line (control line) = negative test result (troponin T concentration < 0.1 ng/mL)***

*b) 2 lines (control and signal line) = positive test result (troponin T concentration ≥ 0.1 ng/mL).***

*c) no control line = invalid test (repeat test)***
Product specification

**Intended use**
Qualitative immunological test for specific detection of cardiac troponin T in whole blood

**Test principle**
Rapid assay based on specific immunological reaction

**Test material**
150 µL anticoagulated venous whole blood (only EDTA or heparin can be used as the anticoagulant)

**Test performance time**
15 minutes

**Storage and stability**
4 weeks at room temperature; at +2°C to +8°C until expiration date

**Package sizes**

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Description</th>
<th>Package contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>11 621 947 196</td>
<td>TROP T Sensitive rapid assay for 5 determinations</td>
<td>5 disposable test strips individually sealed</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5 pipettes (150 µL)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5 documentation labels</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 package insert</td>
</tr>
<tr>
<td>11 621 904 193</td>
<td>TROP T Sensitive rapid assay for 10 determinations</td>
<td>10 disposable test strips individually sealed</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10 documentation labels</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 package insert</td>
</tr>
</tbody>
</table>

**Optional items**

<table>
<thead>
<tr>
<th>Art. No.</th>
<th>Description</th>
<th>Package contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>11 622 889 190</td>
<td>CARDIAC pipette</td>
<td>20 disposable pipettes for use with TROP T Sensitive rapid assay (pipettes are not included in the TROP T Sensitive 10-test pack)</td>
</tr>
<tr>
<td>11 937 553 193</td>
<td>CARDIAC control Troponin T</td>
<td>1 neg. control (lyophilized)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 low pos. control (lyophilized)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>for 2×6 control determinations</td>
</tr>
</tbody>
</table>
Literature

5. Gerhardt, W., Ljungdahl, L. (1997) Detection of myocardial damage by aerial measurements of cardiac Troponin T, CK MB mass, and Trop T rapid test; Cardiovasc Drugs Ther Suppl. I, 227–40