

Labmaster Troponin I ELISA

quantitative ELISA test

Since 1987, the cardiac Troponin I (cTnI) marker has been in use for cardiac cell death. Labmaster's quantitative Troponin I ELISA test supports the lifesaving decision by providing a timely, highly accurate diagnosis of acute myocardial infarction (AMI), unstable angina, post-surgery myocardium trauma and some other diseases related with cardiac muscle injury. Troponin I can be detected in patient's blood plasma or serum 3-6 hours after onset of the chest

pain, and elevated cTnI levels can be detected even 5-8 days after onset of the AMI symptoms, making the test useful also in case of late diagnosis.

Labmaster Troponin I ELISA test is a tried, reliable and highly accurate way to diagnose AMI from human plasma or serum samples in clinical settings.



Troponin I ELISA Kit

WHAT IS TROPONIN I?

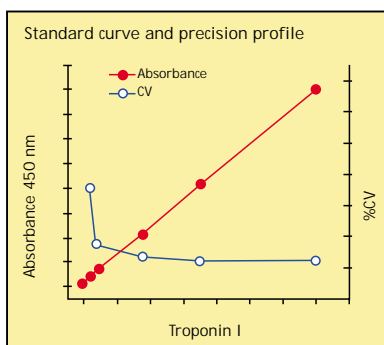
• Cardiac Troponin I is a protein found in cardiac muscle, with a molecular weight of 22.500 daltons. Together with Troponin T and C, it forms a structural complex which – after cardiac damage – is released into blood circulation. Both free Troponin I and Troponin I in complex are measured. Troponin I is also found in skeletal muscles, but it differs in its amino acid composition from cardiac Troponin I. These two Troponins can be distinguished immunologically.

• Troponin I is released into blood stream soon after onset of acute cardiac damage. Utilising sensitive immunological methods, a detectable level is reached after 3-6 hours after AMI. cTnI concentration in normal serum is below 0.1 ng/ml. Levels as high as 100 - 300 ng/ml have been measured with some AMI patients.

USE OF THE QUANTITATIVE ELISA KIT

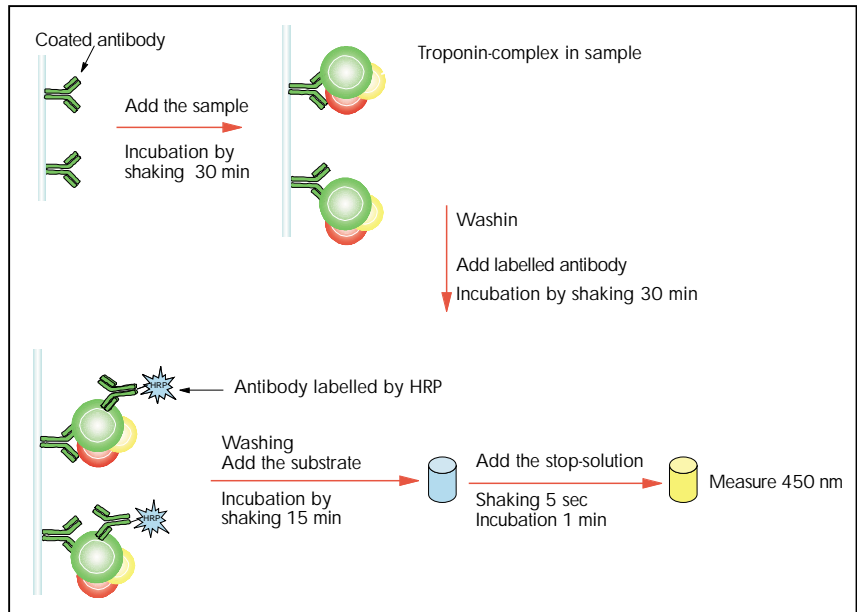
- Labmaster Troponin I ELISA test is used to examine human plasma or serum samples to detect elevated cTnI levels.
- Ideal for use in laboratory environments of hospitals and health care centers.
- The assay can be performed in just 75 minutes.
- No hook effect.
- Detection time from 3-6 hours up to 5-8 days from potential patient AMI.
- Can be used with other diagnostic methods to detect myocardial damage.
- No test-specific training is required.

PERFORMANCE CHARACTERISTICS



- **Ready-to-use, stable liquid standards.**
- Clinical experiments show complete success in indicating cTnI positive samples, also in case of microinfarcts.

TEST PRINCIPLE

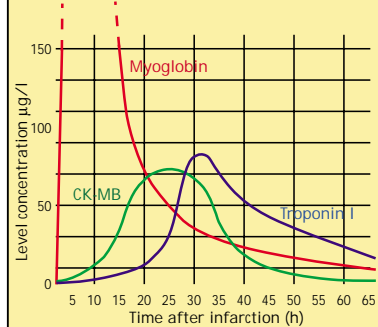


- Labmaster Troponin I ELISA test is a two-step enzyme linked immunosorbent assay.

Examples of markers used in diagnosing AMI:

Marker	Sensitivity	Specificity
Troponin I	> 98 %	> 98 %
Troponin T	> 98 %	80 %
CK-MB	> 95 %	95 %
Myoglobin	> 95 %	75 - 85 %

Schematic presentation of the time course of appearance of serum markers in AMI



- Labmaster Troponin I ELISA test is highly specific. The antibodies do not show any crossreactions with Troponin C, Troponin T or skeletal Troponin I.

ORDERING INFORMATION

Labmaster Troponin I Kit ELISA

- Cat. no.: 1212-1006
- includes: microtitration plate (96 wells) reagents for testing standards and samples instructions for use



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