

CARDIAC TROPONIN I ASSAY

LIQUID STABLE ASSAY

For Research Use Only in USA. 

EARLY DETECTION OF MYOCARDIAL DAMAGE

Literature reports state that Cardiac Troponin I is specific for cardiac tissue and is detected in the serum only if myocardial injury has occurred. Reports state that Troponin I determination allows early identification and stratification of research subjects with chest pain suggestive of ischemia, allows identification of research subjects that present 48 hours to 6 days after infarction, and identifies samples with false positive elevations in CK-MB.

EASILY ADAPTABLE TO HIGH SPEED AUTOMATED CHEMISTRY ANALYZERS

Diazyme's Latex enhanced immunoturbidimetric Cardiac Troponin I method has been designed to work on most modern high throughput chemistry analyzers. This means faster reporting and improved workflow for research laboratories testing Cardiac Troponin I as well as a lower reagent cost per test.

RELIABLE AND PRECISE TEST RESULTS

In addition to improving test speed and research laboratory workflow Diazyme's Latex enhanced immunoturbidimetric Troponin I offers a highly precise assay with simple precision CV's under 6%.

BACKGROUND

Human troponin I is presented in three isoforms, two isoforms are expressed in skeletal muscle tissue and one isoform is expressed in cardiac muscle tissue. cTnI is expressed in cardiac muscle tissue by a single isoform with molecular weight 23876 Da and it consists of 209 amino acid residues. For more than 15 years cTnI has been known in the literature as a reliable marker of cardiac muscle tissue injury.





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| | |
|-----------------------------|--|
| Method | Latex enhanced immunoturbidimetric assay |
| On-Board Stability | Six weeks |
| Calibration Interval | Four weeks |
| Calibration | Six Point Calibration |
| Sample Type | Serum or Lithium Heparin Plasma |
| Sample Volume | 25 μ L |
| Assay Range | 0.4 - 10 ng/mL |

CONVENIENT

- Stable liquid stable format requires no reagent preparation
- Liquid calibration set available separately
- High and low controls available separately

ANALYTICAL CHARACTERISTICS

- Excellent precision
- Linearity to 10 ng/mL

EXCELLENT REAGENT STABILITY

- 18-month kit stability

FLEXIBILITY

- Requires as little as 25 μ L sample
- Automated parameters available for a wide range of clinical instrumentation

PRECISION

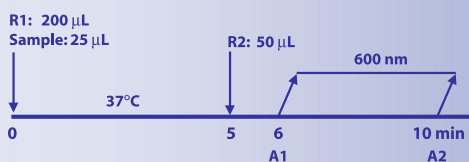
- In the study, three samples containing Cardiac Troponin I were tested on Hitachi 917 in one run with 20 replicates. Within-Run Precision is listed in the table below.

Analytical Characteristics

Within-Run Precision

| | Sample: 0.69 mg/mL | Level 1: 2.85 mg/mL | Level 2: 7.30 mg/mL |
|-------------|-----------------------|------------------------|------------------------|
| N | 20 | 20 | 20 |
| Mean | 0.69 | 2.85 | 7.30 |
| SD | 0.0360 | 0.0799 | 0.1630 |
| CV% | 5.2 | 2.8 | 2.2 |

General Test Scheme for Chemistry Analyzer



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