Cardiac Troponin I is specific for cardiac tissue and is detected in the serum only if myocardial injury has occurred. Diazyme’s Cardiac Troponin I Assay is a cost effective dual vial liquid stable reagent system intended for the in vitro quantitative determination of Cardiac Troponin I in serum and plasma. Diazyme’s Cardiac Troponin I has been designed to work on most all modern high throughput clinical chemistry analyzers and the assays liquid stable format requires no reagent preparation saving time and reducing sample handling. The latex enhanced immunoturbidimetric methodology offers excellent analytical performance, improving laboratory efficiency and work-flow.

**DIAZYME CARDIAC TROPOIN I ASSAY ADVANTAGES**

- Fast test results for a rapid turnaround time
- Liquid stable reagent, calibrator and controls are offered separately for added convenience
- Wide range of instrument parameters available for facilitating and simplifying implementation
- Liquid stable format requires no reagent preparation saving time and reducing sample handling

**REGULATORY STATUS**

USA: For Research Use Only

**AVAILABLE INSTRUMENT SPECIFIC PACKAGING**

- Roche
  - Hitachi
ASSAY PRECISION

In the study, two levels of controls containing 2.59 and 5.77 ng/mL troponin I and one serum sample were tested with Diazyme Troponin I Assay in replicates of 20 on an Olympus AU 400 analyzer. Precision is listed in the table below:

<table>
<thead>
<tr>
<th>Expected Value (ng/mL)</th>
<th>Control 1 (2.59±0.39)</th>
<th>Control 2 (5.77±0.87)</th>
<th>Serum Sample (0.80)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average (ng/mL)</td>
<td>2.38</td>
<td>5.62</td>
<td>0.83</td>
</tr>
<tr>
<td>Standard Deviation</td>
<td>0.092</td>
<td>0.175</td>
<td>0.074</td>
</tr>
<tr>
<td>CV%</td>
<td>3.9%</td>
<td>3.1%</td>
<td>8.9%</td>
</tr>
</tbody>
</table>

ASSAY INTERFERENCE

The common serum interfering substances triglyceride, ascorbic acid, bilirubin, hemoglobin, and rheumatoid factor showed less than 10% interference up to the concentrations summarized below:

- Triglyceride: 500 mg/dL
- Ascorbic Acid: 10 mM
- Bilirubin: 10 mg/dL
- Bilirubin Conjugated: 20 mg/dL
- Hemoglobin: 200 mg/dL
- Rheumatoid Factor: 150 IU/mL