MULTI-ARRAY® Human Cardiac Troponin T Assay
Detection of Cardiac Troponin T in Human Serum and Plasma Samples

Standard curve data is from a representative experiment

Avg % CV is the average of CV's from calibrator levels above LLOD

LLOD (Lower Limit of Detection) is defined as 2.5x stdev above the background

<table>
<thead>
<tr>
<th>Concentration (pg/mL)</th>
<th>Mean Signal</th>
<th>%CV</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>144</td>
<td>10.2</td>
</tr>
<tr>
<td>2.4</td>
<td>174</td>
<td>6.0</td>
</tr>
<tr>
<td>9.8</td>
<td>277</td>
<td>9.1</td>
</tr>
<tr>
<td>39</td>
<td>643</td>
<td>6.4</td>
</tr>
<tr>
<td>156</td>
<td>2425</td>
<td>5.5</td>
</tr>
<tr>
<td>625</td>
<td>11981</td>
<td>3.0</td>
</tr>
<tr>
<td>2500</td>
<td>58653</td>
<td>4.8</td>
</tr>
<tr>
<td>10000</td>
<td>211107</td>
<td>2.7</td>
</tr>
</tbody>
</table>

LLOD = 7.2 pg/mL

Kit Size | Catalog Number
---|---
1 plate  | K151EFC-1
5 plates | K151EFC-2
20 plates | K151EFC-3
20 plates (Base) | K151EFA-3

BSA Blocked

Anti-cTnT SULFO-TAG™ detection antibody

Anti-cTnT capture antibody

cTnT
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Recovery of Dilution Linearity

<table>
<thead>
<tr>
<th>Dilution Factor</th>
<th>Troponin T</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serum</td>
<td></td>
</tr>
<tr>
<td>1:2</td>
<td>96</td>
</tr>
<tr>
<td>1:4</td>
<td>98</td>
</tr>
<tr>
<td>1:8</td>
<td>107</td>
</tr>
</tbody>
</table>

- Samples were spiked with 4ng/mL Troponin T and diluted in calibrator diluent followed by subsequent dilution
- \( \% \) recovery = \( \frac{\text{measured value} \times \text{dilution factor} \times 100}{\text{predicted value}} \)
- Values presented are averages across three pooled samples

Recovery of Spiked Calibrator

<table>
<thead>
<tr>
<th>Spike Level (ng/mL)</th>
<th>Troponin T</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serum</td>
<td></td>
</tr>
<tr>
<td>0.5</td>
<td>113</td>
</tr>
<tr>
<td>1.0</td>
<td>103</td>
</tr>
<tr>
<td>2.0</td>
<td>109</td>
</tr>
<tr>
<td>EDTA Plasma</td>
<td></td>
</tr>
<tr>
<td>0.5</td>
<td>118</td>
</tr>
<tr>
<td>1.0</td>
<td>107</td>
</tr>
<tr>
<td>2.0</td>
<td>114</td>
</tr>
<tr>
<td>Heparin Plasma</td>
<td></td>
</tr>
<tr>
<td>0.5</td>
<td>114</td>
</tr>
<tr>
<td>1.0</td>
<td>97</td>
</tr>
<tr>
<td>2.0</td>
<td>109</td>
</tr>
</tbody>
</table>

- Measured analyte spiked into human samples
- \( \% \) recovery = \( \frac{\text{measured value} \times 100}{\text{expected value}} \)

Endogenous Analyte Levels in Samples

<table>
<thead>
<tr>
<th>Troponin T (ng/mL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>N</td>
</tr>
<tr>
<td>Mean</td>
</tr>
<tr>
<td>Median</td>
</tr>
<tr>
<td>Range</td>
</tr>
</tbody>
</table>

- 20 normal human serum samples
- Average CVs for measured samples was less than 7%