Cystatin C
For rapid and independent testing of kidney function
The method

The use of PETIA (Particle-Enhanced Turbidimetric ImmunoAssay) technology allows for an accurate and reproducible quantitative measurement of Cystatin C in serum and plasma. The latex particles coated with antibodies against human Cystatin C, when mixed with a sample containing human Cystatin C, develop an agglutination reaction with a variation in absorbance due to the formation of an immunocomplex which is proportional to the concentration of human Cystatin C present in the sample.

Analytical Procedure

The latex particles coated with antibodies against human Cystatin C, when mixed with a sample containing human Cystatin C, develop an agglutination reaction with a variation in absorbance due to the formation of an immunocomplex which is proportional to the concentration of human Cystatin C present in the sample.

Analytical advantages

- Ready to use liquid reagent
- 18 months stability from date of manufacture
- Reagent onboard stability: 45 days
- Calibration onboard stability: 45 days
- Sensitivity 0.05 mg/L
- Wide measuring range from 0.05 mg/L up to 10.0 mg/L
- No prozone effect up to 40 mg/dL
- Applications for the most commonly used automated analyzers available upon request
- Withstands endogenous interference
- Complete evaluation of drug interference [FDA, EP7-A2 protocol]

Clinical advantages

- Standardization against ERM-DA-471/IFCC
- Commutability of most important clinical studies
- Reference intervals based on 259 adult individuals (CLSI, C28-A2)
- eGFR [Glomerular Filtration Rate] formula on 4258 patients over 18 years old vs. GFRiohexol
- eGFR [Glomerular Filtration Rate] formula on 702 patients under 18 years old vs. GFRiohexol
  \[ eGFR = 130 \times \text{cystatin C}^{1.069} \times \text{age}^{0.117} - 7 \]
  DOI: 10.1373/CLINCHEM.2013.220707

<table>
<thead>
<tr>
<th>Ref.</th>
<th>Description</th>
<th>Kit Size</th>
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</thead>
<tbody>
<tr>
<td>11510A</td>
<td>Cystatin C</td>
<td>R1: 1x46 mL; R2: 1x13 mL</td>
</tr>
<tr>
<td>11527S</td>
<td>Cystatin C Calibrator</td>
<td>1x1 mL</td>
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<tr>
<td>11527C</td>
<td>Cystatin C Control Set</td>
<td>2x(1x1) mL</td>
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</tbody>
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