PARACETAMOL
SERAS CALIBRATOR KIT

- Human sera based calibrators to improve accuracy and sensitivity
- Sensitivity: <3mg/L (0.02mmol/L)
- Measurement range: 3 - 378mg/L (0.02 - 2.50mmol/L)
- Calibration frequency: 168 hours
- Liquid ready to use

Application

Human sera based 0mg/L and 302mg/L Paracetamol (Acetaminophen) Calibrators.

Calibrator shelf-life: 18 months, stable for one month after opening.

Traceability: Sera calibrators are manufactured using primary calibration material, Acetaminophen (98.0% - 101.0%) that meets USP specifications. They are manufactured gravimetrically and tested against independent controls.

Sensitivity

6 drug free patients were tested on a clinical chemistry analyser using the Paracetamol Kit and calibrated using the K8100 Paracetamol Sera Calibrators.

Mean = 1.53mg/L (0.010mmol/L)
Std Dev = 0.39mg/L (0.003mmol/L)
Mean + 2SD = 2.31mg/L (0.016mmol/L)

56 patient samples that were <10mg/L (0.066mmol/L) Therapeutic Paracetamol on a clinical chemistry analyser were retested using the Paracetamol Kit and calibrated using the K8100 Paracetamol Sera Calibrators and normal calibrators.

Normal calibrators – 21/56 were <5mg/L (0.033mmol/L) remaining 35/56 gave a mean of 5.6mg/L (0.037mmol/L) and Std Dev 1.08mg/L (0.007mmol/L).

Sera calibrators – 48/56 samples would be <3mg/L (0.02mmol/L) the new cut-off. Mean of all samples is 1.7mg/L (0.011mmol/L) and Std Dev 1.16mg/L (0.008mmol/L).

Related Product: Paracetamol

Paracetamol Sera Calibrator Kit - Catalogue No. K8100

**Precision**

<table>
<thead>
<tr>
<th>Paracetamol conc (mg/L)</th>
<th>Within Run Precision</th>
<th>Between Day Precision</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Mean (mg/L)</td>
<td>Mean (mmol/L)</td>
</tr>
<tr>
<td>12.8</td>
<td>12.2</td>
<td>0.081</td>
</tr>
<tr>
<td>49.6</td>
<td>46.8</td>
<td>0.310</td>
</tr>
<tr>
<td>141.3</td>
<td>133.8</td>
<td>0.886</td>
</tr>
<tr>
<td>2.69</td>
<td>2.69</td>
<td>0.022</td>
</tr>
<tr>
<td>3.31</td>
<td>3.31</td>
<td>0.022</td>
</tr>
</tbody>
</table>

**Linearity**

![Graph showing linearity](image)

**Calibration Stability**

![Graph showing calibration stability](image)