CH50 | Liposome Immunoassay
Screening for Complement Activity in human serum

- Liposome immunoassay, stable and homogeneous
- Applicable to automated analyzers
- Precise, accurate
- Extended calibration stability
- Good correlation with Mayer’s hemolytic method

**Principle**

Complement in the sample is activated by the antigen-antibody complexes on the liposomes. The activated complement breaks the membrane of the liposomes. The enzyme glucose-6-phosphate dehydrogenase (G6PDH) contained in the liposome reacts with NAD and glucose-6-phosphate (G6P) in the reagent. During this enzyme reaction, the NAD is reduced to NADH. As a result of this reduction, absorbance at 340 nm increases. This is proportional to the CH50 activity.

**Procedure**

Standard Procedure (Hitachi 917s)

![Reaction time course](image)

**Reaction time course**

- black
- Calibrator 5
- Control 1
- Control 2

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**Range**

The measurable range is 10 – 60 U/mL

**Correlation**

![Correlation graph](image)

**Sensitivity**

4U/mL

**Interference**

Ascorbic acid concentrations up to 50 mg/dL, hemoglobin concentrations up to 500 mg/dL and bilirubin concentrations up to 40 mg/dL do not have a significant effect on the Autokit CH50 assay.

**CE Applications**

- Aeroset AU640 Hitachi 902
- Architect c8000 AU2700 Hitachi 904
- Architect c16000 Cobas6000 Hitachi 911
- AU400 Cobas8000 Hitachi 912
- AU600 Dimension Konelab 30/60i

**Ordering**

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Product</th>
<th>Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>995-40801</td>
<td>Autokit CH50</td>
<td>R1: 2 x 20 mL, R2: 1 x for 20 mL, R2a: 1 x 20 mL</td>
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<tr>
<td>997-43801</td>
<td>CH50-Calibrator</td>
<td>CAL: 5 Conc. x for 0.5 mL</td>
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<tr>
<td>991-43701</td>
<td>Complement Control</td>
<td>CONTROL H: 10 x for 0.5 mL, CONTROL L: 10 x for 0.5 mL</td>
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</tbody>
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