# CH 50 | Liposome Immunoassay

Screening for Complement Activity in human serum

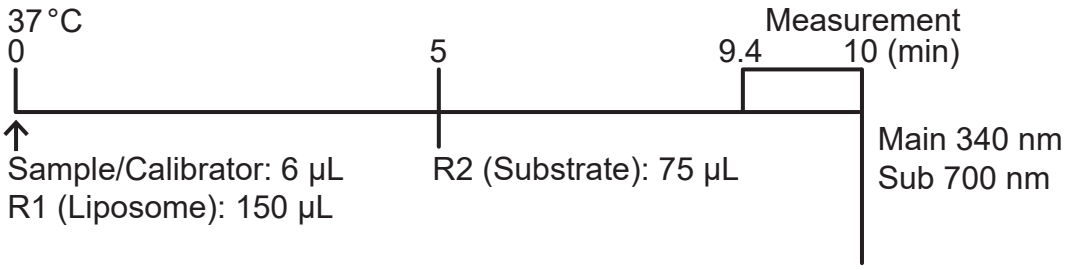
- Liposome immunoassay, stable and homogeneous
- Applicable to automated analyzers
- Precise, accurate
- Extended calibration stability
- Good correlation with Mayer's hemolytic method

## 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.

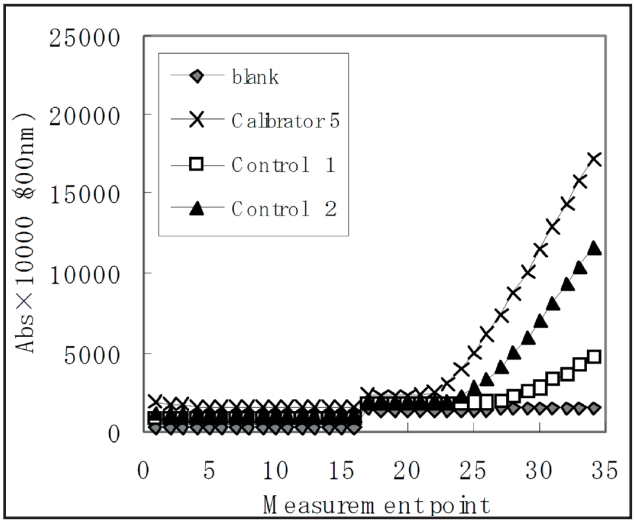
## Procedure

Standard Procedure (Hitachi 917s)




## Reaction

Reaction time course



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**Immunology | CH50**
KITS

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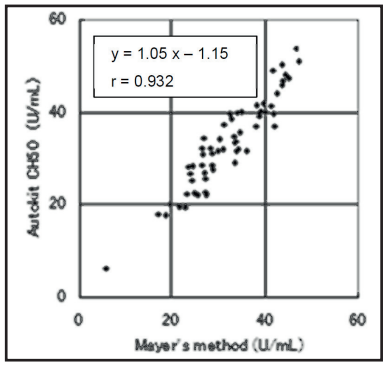
## Range

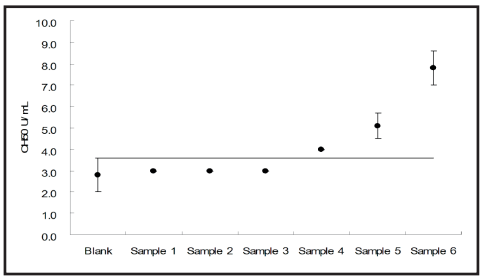
The measurable range is 10 – 60 U/mL

## Correlation




## 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

| Code No. | Product | Content |
|---|---|---|
| 995-40801 | Autokit CH50 | R1: 2 x 20 mL<br>R2: 1 x for 20 mL<br>R2a: 1 x 20 mL |
| 997-43801 | CH50 Calibrator | CAL: 5 Conc. x for 0.5 mL |
| 991-43701 | Complement Control | CONTROL H: 10 x for 0.5 mL<br>CONTROL L: 10 x for 0.5 mL |





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