

## CH 50 | Liposome Immunoassay

Screening for Complement Activity in human serum

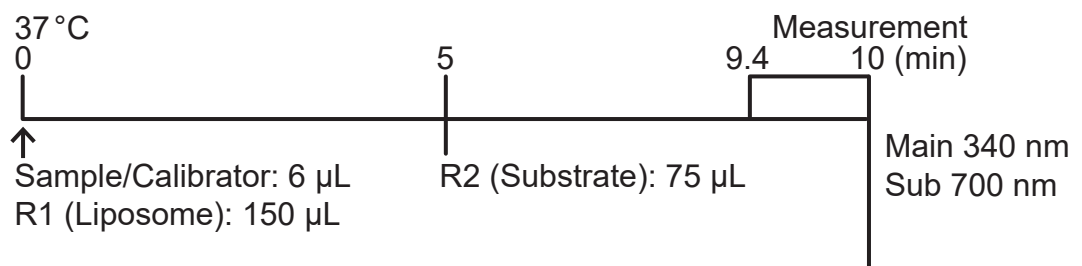
- Liposome immunoassay, stable and homogeneous
- Applicable to automated analyzers
- Precise, accurate
- Extended calibration stability
- Good correlation with Mayer's hemolytic method

### 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.

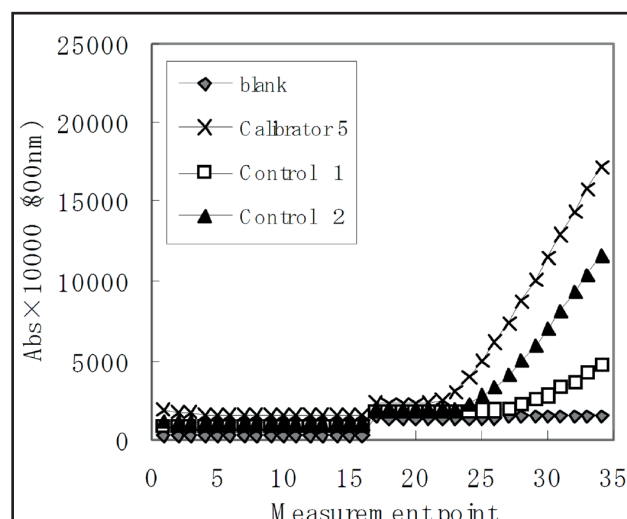
### Procedure

Standard Procedure (Hitachi 917s)



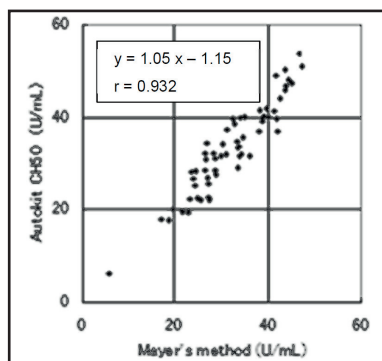
### Reaction

Reaction time course

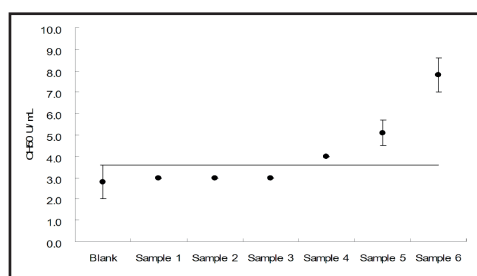


**Range** The measurable range is 10 – 60 U/mL

**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.

<b>CE Applications</b>	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 R2: 1 x for 20 mL 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 CONTROL L: 10 x for 0.5 mL