

## Fibrinogen Activity Assay

Activity of fibrinogen, activated by thrombin, is measured in time to clot formation

### Materials

1. ST4 semi-automated mechanical coagulation instrument (Diagnostics Stago, NJ)
2. 4-well cuvettes
3. Magnetic mixing ball
4. Citrated plasma samples
5. Owren's Veronal Buffer
6. Bovine thrombin reagent
7. Fibrinogen reference plasma

### Procedure

1. Citrated plasma samples are diluted 1/10 in Owren's Veronal Buffer
2. 45  $\mu$ L of sample dilutions, in duplicate, are incubated at 37°C for 3 minutes
3. 22.5  $\mu$ L of bovine thrombin reagent are added to activate fibrin clot formation
4. Standard curve generated by dilutions of a standardized plasma of calibrated fibrinogen concentration
5. Measured clotting times are converted to fibrinogen concentration using the standard curve