

Activated Partial Prothrombin Time (aPPT)

Measures the time to clot formation, indicating the activity of the intrinsic and common coagulation pathways and their involved clotting factors

Materials

1. ST4 semi-automated mechanical coagulation instrument (Diagnostics Stago, NJ)
2. 4-well cuvettes
3. Magnetic mixing ball
4. Citrated plasma samples
5. aPPT reagent
6. 25 mM CaCl₂

Procedure

1. Instrument, cuvettes, mixing balls, and aPPT reagent are pre-warmed to 37°C
2. 30 µL of citrated plasma samples, in duplicate, are added to each well, followed by 30 µL of aPPT reagent, and then incubated at 37°C for 5 minutes
3. 30 µL of CaCl₂ is added to each well to initiate clotting
4. Time until clot formation is measured in seconds