
Preparation of AuNP conjugates with recombinant antigens, protein or antibodies for immunoassay ——Diagnostic Application Protocol

1. To prepare the AuNP (gold nanoparticle) conjugate, the recombinant protein dissolved in PBS (1 mg/mL) was added to the mixture of 1mL AuNP colloid (40nm in diameter, OD=1) and 0.1mL of borate buffer (0.1 M, pH 8.5). Incubation for 30 min at room temperature.
2. 0.1mL of 10mg/mL BSA in PBS was added to the solution to block the AuNP surface. Incubation for 15-30 min at room temperature.
3. The mixture was centrifuged at 10,000rpm and 4°C for 20-30 min. The supernatant was discarded, and 1mL of 1mg/mL BSA in PBS was added to the AuNP conjugate to be re-suspended.
4. The centrifugation and suspension process were repeated twice, and the final suspension solution was PBS.