

Procedure for Binding CO11 Oligo Functionalized Gold Nanoparticles to Glass Slides

Part Numbers:

S-OLIGO-1 KIT

Procedure

Step 1 Cleaning the slides

Glass substrates are cleaned with RBS detergent at 80 C, sonicated for 10 min, and rinsed with water. The slides were further cleaned by sonication in a 1:1 mixture of methanol/hydrochloric acid for 30 min, then rinsed with copious amounts of water, then ethanol, and dried overnight in an oven at 60 C.

Step 2 Modifying the Slide Surface with Part 1 of the Capture Ligand

After cooling, the slides were incubated in a 20% solution of #1 mixed with Ethanol. So 1mL of #1 will make 5mL of solution. You may add the solution dropwise and let dry. Multiple applications increase coverage.

Purify the surface of unbound Capture Ligand by repeated additions of ethanol in a dropwise manner and let drip dry.

Step 3 Functionalizing the Capture Ligand to bind to the Oligo SGNPs

Add 1mL of DI water to #2. Add dropwise to surface and let dry in oven at < 30C.

Purify the surface of unbound Capture Ligand Modifier by repeated additions of ethanol in a dropwise manner and let drip dry.

Step 4 Functionalizing the Oligo SGNPs to the Capture Ligand

Add the Oligo Functionalized SGNPs dropwise to surface and let dry. Repeat 1-2 more times.

Purify the surface of unbound Oligo Functionalized SGNPs by repeated additions of DI water in a dropwise manner and let drip dry.