EDC Plus Sulfo-NHS

1. Dissolve 1mg L-lysine in 1ml of activation buffer (0.1M MES, 0.5M NaCl, pH6.0), at a concentration of 1mg/ml.
2. Add coupled reagent EDC 0.4mg and sulfo-NHS 0.6mg to the solution in step 1, at a concentration of 0,4mg/ml of EDC and 0.6mg/ml of sulfo-NHS.
3. Shake up and react for 15min in dark at room temperature.
4. Add 1.4ul β-Mercaptoethanol to the reaction solution. Mix and incubate for 10min at room temperature to neutralize extra EDC.
5. Add 10ul amino-modified complementary strand(100uM) to coupling buffer(phosphate buffer 100mM sodium phosphate,150mM NaCl, pH 7.2)
6. Adjust the pH of the activation buffer over 7.0.
7. Mix the activation buffer with the coupling buffer, shake up and react for 2 hours in dark at room temperature.
8. Use ultrafiltration to concentrate and purify the solution after the end of the reaction.9
9. Using mass spectrometer and infrared detector for testing.