

Deprotection Method of Thiol

What to prepare:

Micro pipette and sterile chips

Centrifuge

Reagents to be used: :

0.1M TEAA (pH6.5-7.5)

1M Caustic Silver Solution

1M DTT

Ethanol

3M Sodium Acetate Solution (pH5.2)

- ① Reconstitute by adding 0.1M TEAA (pH6.5~7.5) to lyophilized oligoDNA.
(0.1M TEAA 50 μ l against oligoDNA 5 O.D.)
(Hereafter, volume of reagents shall be the value against oligoDNA 5 O.D.)
- ② Add 7.5 μ l of 1M Caustic Silver Solution and mix well with vortex, then leave it in room temperature for 30 minutes.
- ③ Add 10 μ l of 1M DTT and mix well with vortex, then leave it in room temperature for 15 minutes.
- ④ Centrifuge by 15,000 rpm for 15 minutes.
- ⑤ Dispense supernatant only into other tube so that precipitate should not be taken.
- ⑥ Add 50 μ l of 0.1M TEAA into the tube where precipitate remains and centrifuge it by 5,000 rpm for 5 minutes. Then, transfer supernatant only into tube ⑤.
- ⑦ Add Ethanol of 3-5 times volume of total supernatant and 3M Sodium Acetate.
- ⑧ Leave the precipitate and discard supernatant, then add 500 μ l of 70% Ethanol and mix well with vortex.
- ⑨ Centrifuge by 15,000rpm for 10 minutes.
- ⑩ Leave the precipitate and discard supernatant, then dry the precipitate.
Use the dried product in ⑩.