

## Reagent

1. 1M sorbitol: 18.2g sorbitol in 100ml (final volume) of ddH<sub>2</sub>O, sterilized by filtration or autoclaving.
2. 1M DTT(dithiothretol): Dissolve 3.09g DTT in 20ml 0.01mol/L NaAc(pH=5.2)
3. 1M Tris-HCl(pH=7.5): Dissolve 12.11g Tris base in 80ml ddH<sub>2</sub>O and add optimum concentrated HCl to pH=7.5. Add ddH<sub>2</sub>O to 100ml(final volume).
4. LDST: Dissolve 0.66g LiAc, 10.93g sorbitol in 80ml ddH<sub>2</sub>O and add 1ml 1M DTT and 1ml 1M Tris-HCl. Add ddH<sub>2</sub>O to 100ml(final volume), sterilized by filtration.
5. 0.1 M CaCl<sub>2</sub>: 1.48g CaCl<sub>2</sub>·2H<sub>2</sub>O in 100ml ddH<sub>2</sub>O, sterilized by autoclaving.
6. PBS: 40g NaCl,1g KCl, 7.1g Na<sub>2</sub>HPO<sub>4</sub>, 1.2g KH<sub>2</sub>PO<sub>4</sub> in 500ml(final volume) of ddH<sub>2</sub>O, pH=7.4
7. IPTG:2g IPTG in 10ml (final volume) of ddH<sub>2</sub>O , sterilized by filtration and stored at -80°C .