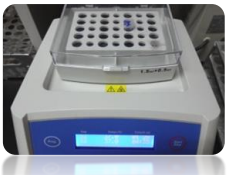
Restriction Enzyme Digestion



To check if the two selected restriction enzymes can perform effective catalysis in the same solution

1. Mix DNA solution with the suitable amount of the master mix.
   a. **25.0μL reaction system**

      20.0μL DNA sample
      0.25μL BSA
      2.5μL 10x NEB Buffer
      1.0μL of each restriction enzyme
      1.25μL ddH2O

      --------**25.0μL** Total

   b. **50.0μL reaction system**

      40.0μL DNA sample
      0. 5μL BSA
      5.0μL 10x NEB Buffer
      1.5μL of each restriction enzyme
      2.0μL ddH2O

      --------**50.0μL** Total
2. Pipette up and down in the EP tube.
3. Incubate: 37°C for 3 hours.
4. Enzyme inactivation: 80°C for 30 minutes.