DNA extraction with AxyPrep Kit

Aim of the experiment

The purpose of this experiment is to extract target DNA.

Materials

- RNAse A: 50mg/ml, can be stored at room temperature for 6 months, long-term storage at -20℃
- Buffer S1: suspension, add RNase A and mix well. Store at 4°C
- Buffer S2: Lysis solution (including SDS/NaOH), sealed and stored at room temperature
- Buffer S3: Neutralizing solution, sealed at room temperature
- Buffer W1: washing solution, sealed at room temperature
- Buffer W2 concentrate: Desalt solution. Before use, add absolute ethanol according to the specified volume on the reagent bottle, mix well, and store in airtight at room temperature.
- Eluent: eluent, airtight storage at room temperature

Procedure

1. Before using the kit add all the RNase A into BufferS1 and save it at 4℃.

2. Suck 4ml microbial into the EP tube and centrifuge it at 12000 rpm for 1 minute, through the supernatant.

3. Add 250ul Buffer S2 and gently turn it upside and down for 4-6 times.

4. Add 350ul BufferS3 and mildly turn it upside and down for 6-8 times. Centrifuge it at 12000rpm for 10 minutes.

5. Suck the supernatant and transfer it into the centrifuge tube. Centrifuge it at 12000rpm for 1minute and through the solution.

6. Add 500ul BufferW1, centrifuge it at 12000rpm for 1 minute and through the solution.

7. Add 700ul Buffer W2, centrifuge it at 12000rpm for 1 minute and through the solution.

8. Add 700ul Buffer W2 and through the solution.

9. Centrifuge it at 12000rpm for 1 minute.

10. Add 60-80 ul Eluent and move the microcentrifuge tube into new 1.5ml centrifuge tube. Let stand at room temperature for 1 minute and centrifuge it at 12000rpm for 1 minute.