



DYS SEE

**Glycerol Stock
Preparation.**

Protocols

Glycerol Stock Preparation

Overview

One way to store your desirable plasmids for a long time is by creating bacterial glycerol stocks of the plasmid. This way, the plasmid is inside the bacteria and makes it really easy to collect it in large amounts. Glycerol is the ideal component for long-term storage of bacteria because of its ability to prevent cell membrane damage and keep the cells alive.

Protocol:

1. Inoculate an overnight liquid culture and wait for the bacteria to grow.
2. After the bacteria have grown, add 500ul of the overnight liquid culture to a 1.5ml tube.
3. Add 500ul of 50% sterilized glycerol to the same tube.
4. Pipette up and down to mix the bacteria with the glycerol.
5. Store the tubes at -80°C . Glycerol stocks are stable for many years at -80°C .

In order to recover bacteria from the glycerol stock, follow the instructions below:

- Put your frozen glycerol stock tubes to liquid nitrogen, in order to prevent them from unthawing.
- Scrap a small amount of the frozen bacteria with a pipette tip.
- Streak the bacteria onto an LB agar plate or throw the tip into a falcon with LB medium, containing the right antibiotics.



Protocols