

# Long term glycerol stock of bacteria

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## Introduction

Whenever you successfully transform a bacterial culture with a plasmid or whenever you obtain a new bacterial strain you will want to make a long term stock of that bacteria. Bacteria can be stored for months and years if they are stored at -80C and in a high percentage of glycerol.

## Materials

- › 40% glycerol solution
- › Day/overnight culture
- › Cryogenic vials/1.5mL microfuge tube
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## Procedure

1. Pick a single colony of the clone off a plate and grow an overnight in the appropriate selectable liquid medium (3-5ml).
2. Add 0.5 ml of 40% glycerol in H<sub>2</sub>O to a cryogenic vial.  

Note: In the lab we have 50% glycerol. Pipet 0,4 ml 50% glycerol and 0,1 ml water for 40% glycerol concentration.
3. Add 0,5 ml sample from the culture of bacteria to be stored.
4. Gently vortex the cryogenic vial to ensure the culture and glycerol is well-mixed.  

Alternatively, pipet to mix.
5. On the side of the vial list all relevant information - part, vector, strain, date, researcher, etc.
6. Freeze glycerol stock in liquid nitrogen and store in a -80C freezer.  

This will also be a good time to record the strain information and record the location.