

WARNING NOTICE: The experiments described in these materials are potentially hazardous and require a high level of safety training, special facilities and equipment, and supervision by appropriate individuals. You bear the sole responsibility, liability, and risk for the implementation of such safety procedures and measures. MIT shall have no responsibility, liability, or risk for the content or implementation of any of the material presented. [Legal Notices](#)

FROZEN STOCKS

Archive a sample of a bacterial strain as a frozen stock for future reference whenever you:

- receive a strain from a collaborator
- create a new strain or a new plasmid
- introduce an established plasmid into a new strain.

This practice is critical for reproducing your results and makes it possible for other researchers to build upon the research you have initiated.

1. Label a 1-2 ml cryovial with
 - the name of the bacterial strain
 - the plasmid it carries (if applicable)
 - your name
 - the date
 - You may also want to label the cap of the tube with some shorthand notation that makes it easy to locate and identify the tube once it's in among all of the other frozen stocks
2. Obtain a dense, freshly grown culture of the bacteria to be stored
3. Mix 1:1 with Frozen stock solution in the labeled cryovial
4. Store at -80°C
5. (**This is important**) On this date in your notebook, write a complete description of the frozen stock, what the strain (and plasmid, if applicable) is, how it was made, what it might be used for, what antibiotic resistances it carries, etc. Without this information, it is virtually impossible for future researchers to figure out what your stock is

Frozen Stock Solution

100 ml LB

100 ml glycerol

autoclave