

Instructions for use

Freezing of cells with PAN Freezing Medium or Cryopan I

Description

Our freezing medium (Cat. no. P07-90050) is recommended for the cryo-conservation of cells. The medium is based on DMEM, supplemented with a mix of fetal bovine serum and DMSO. This composition guarantees a high survival rate and excellent cell growth after thawing.

Description

Cryopan I (Cat. no. P07-92050) is a serum-free freezing medium for the cryo-conservation of cells in a nitrogen storage tank or an ultra-low temperature freezer (< -150° C). It contains DMSO.

Freezing procedure:

- Refrigerate freezing medium, culture medium and freezing vials.
- For cells in suspension, wash cells 1x with PBS or culture medium after harvest.
- For adherent cells, trypsinize cells, neutralize trypsin (use FBS for serum-containing culture or trypsin inhibitor for serum-free culture), transfer the cells into a tube and centrifuge.
- Determine cell count. Wash 1x with PBS or culture medium. Discard the supernatant and resuspend in appropriate amount of freezing medium.
- Cell count for freezing should be $1-5 \times 10^6$ /ml. The cells should be carefully resuspended to avoid clumping.
- Spin down and resuspend the cells in an appropriate volume of cooled freezing medium by pipetting only once or twice. Distribute 1 ml cell suspension per vial.
- To achieve a defined freezing rate of about 1° C per minute, manual freezing devices or computer-controlled freezing may be used.
- Transfer into gas phase of liquid nitrogen storage tank or to a > -150° C freezer.

Note: Ideal freezing rate is a decrease of 1° C per minute.