Datasheet

Freezing Medium

Cell Culture Reagent

Product	Description	Catalogue-No.	Size
Freezing Medium	**Cryopreservation medium, with 10 % DMSO**	**P07-90010** **P07-90050**	**10 ml** **50 ml**

Product description
Freezing Medium is a cryopreservation medium for animal and human cells (adherent and suspension cells). It is supplemented with fetal bovine serum (FBS) and dimethyl sulfoxide (DMSO). This composition guarantees a high survival rate and excellent cell growth after thawing.

Storage conditions
Storage conditions: - 20°C
Stability: 2 years from date of production
Filling: 10 ml, 50 ml, other sizes on request

Composition
Freezing Medium is based on DMEM and is supplemented with FBS and 10 % DMSO.

Suitability
Freezing Medium is for the cryopreservation of human and animal cells.

Special Advantages
Due to its composition with FBS and 10 % DMSO it guarantees high survival rate and high cell viability after the thawing process.

Instructions for Use

1. Freezing cells with Freezing Medium
   For optimal results only vital cells in the log-growth phase should be used.
- Thaw Freezing Medium and store till using at 2-8°C.
- Trypsinate adherent cells, transfer the cells into the culture medium and centrifuge.
- Discard the supernatant and wash the cell pellet in PBS (without Ca^{2+}/Mg^{2+}).
- After an additional centrifugation step (100 – 200 g, 5 - 10 minutes) transfer the cells into PBS and determine cell number and cell vitality by trypan blue cell viability staining.
- Centrifuge the cells again and discard the supernatant.
- Transfer the cells into the cold Freezing Medium ($5x10^5$ - $2x10^6$ cells/ml Freezing Medium).
- Suspend the cells carefully mixing the suspension by repeated pipetting until there are no more cell clumps.
- Refill the cell suspension into labelled cryotubes (0,5 - 1,5ml/tube).
- Freeze the cells in an automatically or manually controlled cryo freezer. The optimal freezing rate is approximately 1°C/minute.
- Alternatively, put the tubes for 15 minutes into a refrigerator, so that the freezing medium can penetrate into the cells. After this step freeze the tubes at -20°C for 2 hours box and put them into the vapour phases of liquid nitrogen over night.
- Store cryotubes in a cryotank with liquid nitrogen.

2. Thawing cells

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- Remove the cryotubes from the cryotank and thaw them as soon as possible in warm water (< 1 minute).
- Disinfect the exterior of the cryo tubes with alcohol, convict the cells under sterile conditions into a centrifuge tube with 10 ml growth medium and mix it carefully.
- Centrifuge the cells (150 - 200 g, 5 - 10 minutes).
- Discard the supernatant and recover the cells into the designated culture medium. Determine the cell viability by an appropriate method, like FACS or trypan blue cell viability staining.

Technical support

For technical support, questions or remarks please contact your local PAN-Biotech partner or the technical department of PAN-Biotech via email (info@pan-biotech.com) or phone +49-8543-601630.

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