Datasheet

Cryopan I

Serum-free Freezing Medium

Product	Description	Catalogue-No.	Size
Cryopan I	Serum-free freezing medium without human and animal components, includes DMSO	P07-92010 P07-92050 P07-92100 P07-92500	10 ml 50 ml 100 ml 500 ml

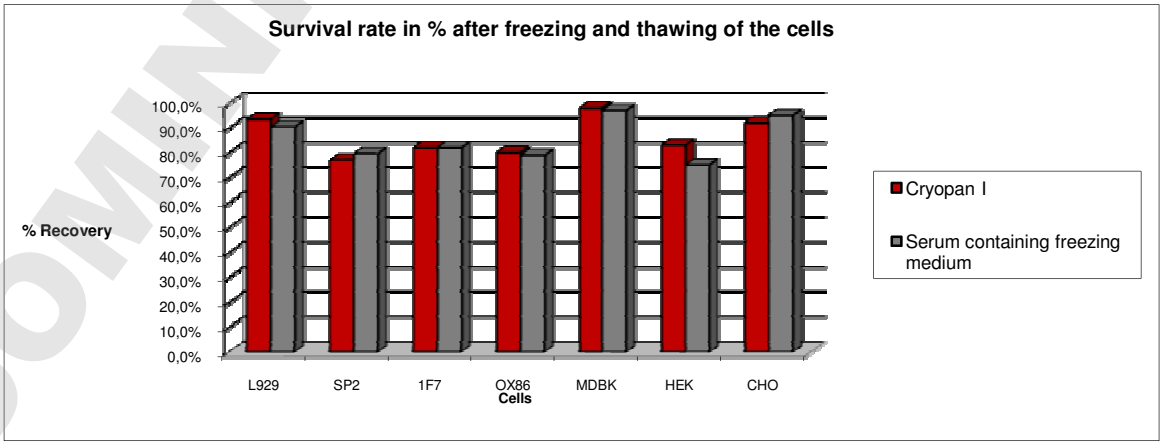
Product description
Cryopan I is a serum-free, ready-to-use freezing medium for animal and human cells (adherent and suspension cells). It contains no human or animal components and is especially suitable for cells from serum-free culture.

Storage conditions
Storage conditions: - 20°C
Stability: 2 years from date of production
Filling: 10 ml, 50 ml, 100 ml, 500 ml, other sizes on request

Composition
Cryopan I consists of a chemically defined and optimised mixture of salts, sugar, DMSO and additional antifreeze-substances. It contains no animal and human components.

Suitability
Cryopan I is for the cryoconservation of human and animal cells.

Special Advantages
Due to its serum-free formulation, Cryopan is especially suitable for the conservation of serum-free cultured cells. The optimised composition guarantees a high cell viability after the thawing process. Best results are attained for all cell types including primary human cells and human cell lines. As Cryopan I contains no animal or human components, a risk of contamination with viruses, BSE or disturbing proteins is excluded.



Instructions for Use

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1. Freezing cells with Cryopan I

   For optimal results only vital cells in the log-growth phase should be used.

- Thaw Cryopan I and store till using at 2-8°C.
- Trypsinate adherent cells, transfer the cells into the culture medium, stop the trypsin activity with trypsin inhibitor 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 Cryopan I ($5x10^5$ - $2x10^6$ cells/ml Cryopan I).
- 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

- 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 and 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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