PAN BIOTECH GmbH
Competence in Cell Culture

Datasheet Cryopan I

Serum-free freezing medium for cells

Produkt	Beschreibung	Katalog-No.	Menge
Cryopan I	**Serum-free freezing medium without human and animal components, includes DMSO**	P07-92010	10 ml
		P07-92050	50 ml

Product description:

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

Storage conditions: - 20 °C
Stability: 2 years
Filling: 10 ml, 50ml, every other filling on request

Composition:

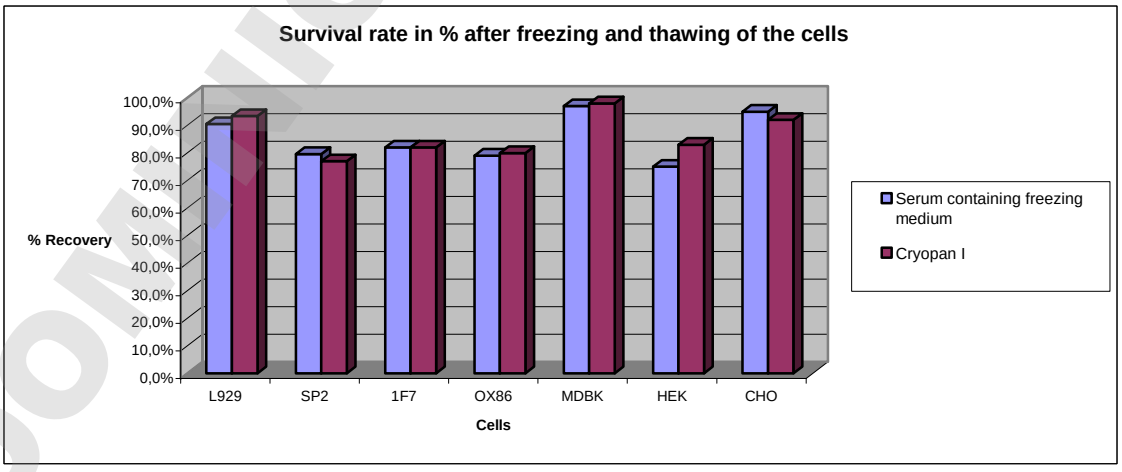
Cryopan I consists of a chemically defined and optimised mixture of salts, sugar, DMSO and additional anti-freezer-substances. It contains no animal and human components.

Suitability:

Cryopan I is for the cryo-conservation 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 vitality after the thawing process. Best results for all cell types including primary human cells and cell lines are reached. As Cryopan I contains no animal or human components, a risk of contamination with viruses, BSE or disturbing proteins is excluded.



Introductions:

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°C - 8°C.
- Trypsinate adherent cells, transfer the cells into the culture medium, stopp the trypsin activity with trypsin inhibitor and centrifuge
- Discard the supernatant and wash the cell pellet in PBS without Ca^{2+} and Mg^{2+}
- After an additional centrifugation step (100-200g, 5 - 10 minutes) transfer the cells into PBS and determine cell number and cell vitality.
- Centrifuge the cells again and discard the supernatant.
- Transfer the cells into the cold Cryopan I ($5x10^5$ - $2x\ 10^6$ cells/ml Cryopan I)
- Suspend the cells carefully by repeated raising and lowing with the pipette till there are no more cell clumps.
- Refill the cell suspension into signed cryo tubes (0,5 - 1,5ml/tube)
- Freeze the cells in an automatical or manual 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 in a styrofoam box and put them into the vapour phases of liquid nitrogen over night.
- Store cryo tubes in a cryo tank with liquid nitrogen.

2. Thawing cells

- Remove the cryo tubes from the cryo tank 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 (100-200g, 5 - 10 minutes)
- Discard the supernatant and recover the cells into the designated culture medium. Prove the cell vitality with a microscope.

Technical Support:

Additional information will be available on our website : www.pan-biotech.com

For any 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.