

STEM-CELLBANKER®

Cryopreservation Medium

- Serum-Free
- Chemically Defined
- GMP Manufactured
- FDA DMF registered

Cat # 11924 (previously [11890])

Qty: 100ml

Expiry Date: 3 years from manufacturing date (see label)



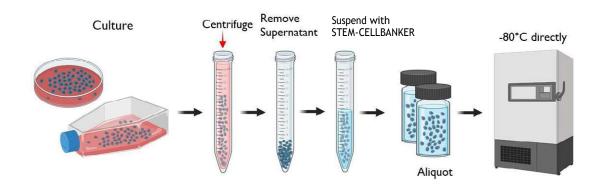
Cell-Freezing:

For optimum results, cells for cryopreservation should be in log phase of growth. Similar or standard freezing protocols may be substituted.

- 1. Examine and make sure the cell culture is free of contamination, in healthy situation and proper confluency, etc.
- 2. Perform a cell count to determine the viability of cells
- 3. Gently pellet the cells by centrifugation (3 5 minutes at 1,000~2,000rpm, 4°C). Remove the supernatant by using an aspirator.
- 4. Gently suspend the cells with STEM-CELLBANKER® cryopreservation medium (1 ml for $5 \times 10^5 5 \times 10^6$ cells).
- 5. Dispense the cell suspension in 1ml aliquots to cryopreservation vials that have been labeled with the cell line name, cell concentration, passage date and other essential information.
- 6. Place the vials directly in a -80°C for storage. If necessary, transfer the frozen vials to a liquid nitrogen storage tank after the vials have been frozen for at least 24 hours.
- 7. Optimum protocol may change with the cell types.

IMPORTANT: Optimum protocol may change with the cell types.

Procedure for Use:



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Thawing:

- 1. Remove the frozen cell from storage and quickly thaw in a 37°C shaking water bath.
- 2. Immediately dilute and gently mix each 1ml of cells with 10ml of complete cell culture medium.
- 3. Gently pellet the cells by centrifugation (3-5 minutes at 1,000 2,000rpm, 4°C). Remove the supernatant by aspirator.
- 4. Gently suspend the cells with appropriate volume of complete cell culture medium and plate in a culture flask.
- 5. Continue the further culture procedures according to standard protocols.

Guarantee of Quality:

- 1. Manufactured in compliance with JPN, EU, US, and PIC/S GMP guidelines
- 2. Bacterial contamination free Product has been tested and confirmed to be free of bacteria, fungi and mycoplasma.
- 3. Chemical Analysis: pH (7.0 to 8.5 at room temperature) Endotoxin (<5 EU/mL)
- 4. Performance test Cell viability above 80% (JM404, SK-007) is guaranteed.

Storage of STEM-CELLBANKER®:

- 1. STEM-CELLBANKER® should be stored at 2-8°C or below -20°C
- 2. For long-term storage STEM-CELLBANKER® can be frozen. Repeated freezing and thawing may impair the quality of the product; it is recommended that STEM-CELLBANKER® is aliquoted before freezing.

Disclaimer:

STEM-CELLBANKER® GMP grade is not by itself a pharmaceutical. Therefore, no warranty, express or implied, is made as to the fitness and suitability of this product for any particular purpose and/or merchantability unless the use is intended for research.

Product Range:

Description	Pack Size
CELLBANKER® 1 - Serum Containing	20 ml
CELLBANKER® 1 - Serum Containing	4 x 20 ml
CELLBANKER® 1 - Serum Containing	100 ml
CELLBANKER® 2 - Serum Free	20 ml
CELLBANKER® 2 - Serum Free	4 x 20 ml
CELLBANKER® 2 - Serum Free	100 ml
STEM-CELLBANKER® - GMP	20 ml
STEM-CELLBANKER® - GMP	4 x 20 ml
STEM-CELLBANKER® - GMP	100 ml
STEM-CELLBANKER® - GMP - DMSO Free	20 ml
STEM-CELLBANKER® - GMP - DMSO Free	4 x 20 ml
STEM-CELLBANKER® - GMP - DMSO Free	100 ml
STEM-CELLBANKER® EX - GMP	100 ml
CELLOTION cell wash solution	100 ml



Citations:

Leung, S. T., Overschmidt, B., Allickson, J., Atala, A., Taghizadeh, R. R., Cetrulo, K., ... & Murphy, S. V. (2018). Review of Processing Technology and Techniques for Perinatal Stem Cells Banking and Clinical Applications. In Perinatal Stem Cells (pp. 337-355).

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Osaki, T., Uzel, S.G.M. & Kamm, R.D. On-chip 3D neuromuscular model for drug screening and precision medicine in neuromuscular disease. Nat Protoc (2020). https://doi.org/10.1038/s41596-019-0248-1

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Ballantyne, M., Woodcock, M., Doddamani, D., Hu, T., Taylor, L., Hawken, R. J., & McGrew, M. J. (2021). Direct allele introgression into pure chicken breeds using Sire Dam Surrogate (SDS) mating. Nature communications, 12(1), 1-10.

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Cells tested:

Cell type	Description	Post Thaw Cell Viability
201B7	Human iPS cell	90
129SV	Mouse ES cell	90
P3/x63	Murine myeloma cell	90
-		
Ag8.U1		
2D-8	Murine hybridoma	90
YAC-1	Murine lymphoblast	90
NBM-Lu	Normal newborn murine fibroblast cell line	90
Feline	Feline peripheral blood mononuclear cells	80
PBMC		
Canine	Canine peripheral blood mononuclear cells	90
PBMC		
Jurkat	Human T-cell line	80
SK007	Human B-cell line	90
K562	Human Caucasian chronic myelogenous leukaemia	90
	cells	
HeLa	Human uterine cervical carcinoma cell	90
HepG2	Human hepatocellular carcinoma cells	90



Caco-2	Human colonic adenocarcinoma cells	90
UE6E7-16	Human Mesenchymal cells	90
UE7T-13	Human Mesenchymal stem cells	90