

STEM-CELLBANKER® EX GMP Grade (Chemically defined cryopreservation solution)

****For Research Use Only****

Manufactured By

ZENOGEN PHARMA CO., LTD.

Cat#: 11936

Size: 100mL

Storage Temperature: 2 to 8°C or below -20°C.

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

Manufactured By: Zenogen Pharma Co., Ltd



Protocol:

Freezing

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

1. Examine and make sure the cell culture is free of contamination, in healthy and at proper confluency.
2. Perform a cell count to determine the viability of cells.
3. Centrifuge at 1,000 - 2,000 rpm, 4°C for 3 to 5 minutes to gently pellet the cells. Remove the supernatant with an aspirator.
4. Gently suspend STEM-CELLBANKER® EX cryopreservation medium (1 mL for 5×10^5 - 5×10^6 cells).
5. Transfer 1 mL of the cell suspension to cryopreservation vial labeled with appropriate information (the cell line name, concentration, passage date etc.).
6. Place the vials directly in -80°C for storage.
7. **(OPTIONAL)** Transfer the frozen vials to a liquid nitrogen storage tank after the vials have been frozen for at least 24 hours.

IMPORTANT: Optimum protocol may change with the cell types.

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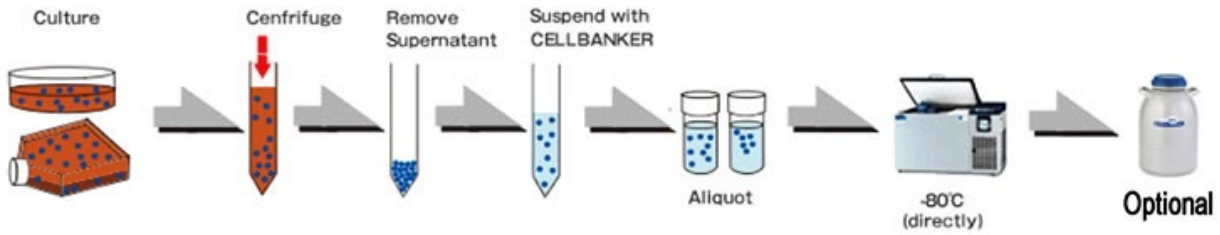
Iwai North America Inc.

URL: www.iwaichem.com

Email: orders@iwai-chem.com

Tel: 650-486-1541

Procedure for Use:



Thawing

1. Remove the cryopreservation vial from the freezer and quickly thaw cells in a 37°C shaking water bath or shake by hand.
2. Transfer the content to a centrifugation tube then immediately dilute and gently mix with 10mL of complete cell culture medium. **Using CELLOTION® instead of complete culture medium will prevent adhesion of cells to the wall of the tube, increasing the recovery rate.**
3. Centrifuge cells at 1,000 - 2,000 rpm, 4°C for 3 to 5 minutes. Remove the supernatant with an aspirator.
4. Gently resuspend the cells with appropriate volume of complete cell culture medium then plate in a culture flask or plate.
5. Continue the culture procedures according to standard protocols.

Cells Tested (Check website for updated list. [Click Here](#))

Cell type	Products	Contributor
Adipose-Derived Stromal/Stem Cells (ADSC)	STEM-CELLBANKER® EX GMP grade	EMO Biomedicine
Cord blood derived hematopoietic stem cells	HSC-BANKER® GMP grade	The Japan society for Hematopoietic cell transplantation (2015)

References:

Mizui, T., Chen, H., Lee, S. & Fukui, M. Study on cryopreservation of human adipose-derived stromal cells. *Cytotherapy* 23, S60–S61 (2021) doi: 10.1016/S1465324921003546.

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Disclaimer:

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

Ordering Details:



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