

Cell Freezing Medium (General Advanced)

Cat. No.: C1524465 | Pack size: 10 mL, 50 mL, 100 mL | Storage: 2-8 °C

Overview

This series of cell cryopreservation solutions is developed in tiers to meet diverse research requirements and consists of five catalog numbers: C1524464, C1524465, C1524466, C1524467 and C1524468. All formulations contain low-concentration DMSO, covering applications from cost-effective basic research to high-end customized formulations and tumor cell-specific cryopreservation, compatible with the vast majority of commonly used laboratory cell lines.

Item No.	Product Name	Core Components	Advantages	Objectives	Applicable Cell Lines
C1524464	Cell Freezing Medium (General Basic)	Low-concentration DMSO, Protein-Free, Serum-Free	Low cost; low DMSO concentration; protein-free and serum-free.	Deliver economical cell cryopreservation solutions for basic scientific research.	L929, B16, K562, HeLa, DC2.4, Molt-4, THP-1, etc.
C1524465	Cell Freezing Medium (General Advanced)	Low-Concentration DMSO, Protein-Free	High cost performance, low DMSO, protein-free; post-thaw cell viability $\geq 90\%$.	Supply cost-effective solutions for research scenarios with tight budget constraints.	L929, B16, K562, HeLa, DC2.4, THP-1, 293T, etc.
C1524466	Cell Freezing Medium (Universal Flagship Type A)	Low-Concentration DMSO, Optimally Formulated Protein	Optimized matching of protein and DMSO; post-thaw viability $\geq 95\%$, rapid cell proliferation.	Provide high-performance cryopreservation solutions for cutting-edge research and high-end pharmaceutical applications.	HT22, L929, Hep-G2, B16, K562, HeLa, DC2.4, THP-1, bmdm, NK, pbmc, PK15, CHO, etc.

Item No.	Product Name	Core Components	Advantages	Objectives	Applicable Cell Lines
C1524467	Cell Freezing Medium (Universal Flagship Type B)	Low-concentration DMSO, Optimally Formulated Protein	Focuses on cellular structure protection, alleviates organelle damage, improves cellular function.	Offer precise and efficient cell cryopreservation solutions for specialized research and pharmaceutical development.	HT22, L929, Hep-G2, B16, B16-F10, K562, HeLa, LLC-OVA, DC2.4, 4T1, MCF-7, Molt-4, H9C2, THP-1, etc.
C1524468	Cell Freezing Medium (Tumor Cell Specific)	Low-Concentration DMSO, Serum-Containing	Formulated with serum and low DMSO to stabilize tumor cells.	Launch dedicated cell cryopreservation products for tumor research studies.	HT22, Hep-G2, B16-F10, HeLa, DC2.4, 4T1, H9C2, 293T, etc.

Main Components: Amino acids, inorganic salts, cryoprotectants.

Product Positioning: Universal advanced grade with broader compatibility for various cell types, maintaining cellular functionality after thawing. It delivers more stable performance and enables rapid proliferation of recovered cells.

Intended Use: For cryopreservation of various cell types. Cryopreserved cells are limited to research experiments or in vitro analytical assays and shall not be used for clinical therapy.

Instructions for Use: Sterilized prior to filling; ready-to-use without dilution. Cell culture shall be performed in accordance with standard operating protocols.

Cell Cryopreservation Protocol

1. Harvest cells in logarithmic growth phase, centrifuge at 1000 rpm for 5 min and discard the supernatant.
2. Resuspend cell pellet in complete culture medium for cell counting and viability assessment, followed by centrifugation and supernatant removal. This step may be omitted if cell quantification is unnecessary and initial cell condition is confirmed.
3. Resuspend cells with this product via gentle pipetting to avoid air bubbles. Recommended seeding density: 1×10^6 to 1×10^7 cells per mL; fill volume per cryovial: 0.5-1.5 mL.
4. Incubate sealed cryovials at 4 °C for 20 min, transfer to a -80 °C freezer for overnight storage, then immerse in liquid nitrogen the following day for long-term preservation.

Notes

[1] Pre-chill the product at 4 °C before use to prevent cell damage induced by overheated cryoprotectants.

[2] Ensure complete tight sealing of cryovials before liquid nitrogen immersion to prevent tube rupture during cell thawing.

Cell Thawing Protocol

1. Retrieve cryovials from liquid nitrogen and rapidly thaw in a 37 °C water bath.
2. Transfer thawed cell suspension into a sterile centrifuge tube pre-filled with an equal volume of complete medium, centrifuge at 1000 rpm for 5 min, discard supernatant and resuspend cells in fresh complete medium.
3. Seed the cell suspension into a cell culture flask containing complete medium, mix thoroughly and incubate in a cell culture incubator.

Notes: Post-thaw cell detection performed immediately often yields inaccurate results; testing is recommended after cell attachment or within 4-48 hours post-recovery, adjusted according to inherent growth characteristics of the target cell line.

General Precautions

1. Store the product at 4 °C immediately upon receipt.
2. In case of skin or ocular contact during handling, rinse thoroughly with running water and seek prompt medical attention if irritation occurs.
3. Discard deteriorated product showing turbidity or precipitation after storage and contact technical support immediately.
4. Open the product cap inside a biosafety cabinet to avoid microbial contamination of cell samples.

Specifications

Synonyms	Cell Cryopreservation Medium Cell Freezing Medium
Specifications & Purity	BioReagent, for Cell culture, Sterile, Low-concentration DMSO, Protein-Free
Stability and Storage	Store at 2-8 °C long term (12 months).
Storage	Store at 2-8 °C
Shipped In	Wet ice. This product requires cold chain shipping. Ground and other economy services are not available.

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Whether you have a technical question, need help with a quotation, or want to inquire about an order, our regional teams are ready to assist. Please contact the office for your region; for general inquiries, the North American office is the corporate primary.

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