



The ibidi Freezing Medium family consists of ready-to-use and serum-free media for the cryopreservation of valuable culture cells. They are designed for rapid and long-term freezing and preservation in a deep freezer (-80 °C) or liquid nitrogen. Sequential freezing with defined cooling rates is not required.

## Overview

The ibidi Freezing Medium DMSO-Free is designed for the preservation of sensitive cells. It does not contain DMSO (dimethyl sulfoxide) and can be used directly without preparation of dilutions. The ibidi Freezing Medium DMSO-Free is serum-free, but contains cellular protectors like Bovine Serum Albumin, granting both, high cell viability and no cell differentiation.

## Why Serum-Free?

- No risk of contamination from serum such as unidentified ingredients, virus particles or mycoplasma. Unidentified ingredients may interfere with cells, especially stem cells.
- No risk of 'batch to batch inconsistency' because of serum.
- Stable product supplying and lower cost. 'Serum' is an expensive and unstable material for manufacturing.

## Why DMSO-Free?

DMSO is used as a supplement in freezing media to avoid the formation of ice crystals, that can harm the cells. However, DMSO is cytotoxic and reduces the survival rate of sensitive cell lines. The ibidi Freezing Medium DMSO-Free does not contain DMSO, but still avoids the formation of ice crystals. Therefore, it is especially suitable for cell lines that are sensitive to DMSO.

## Selected Cell Tests

The ibidi Freezing Medium DMSO-Free was successfully tested with a variety of cell lines and primary cells such as Jurkat (human leukemia T cell line), HEK293T (human primary embryonic kidney cell line), HepG2 (human liver cancer cell line), and HUVEC (human umbilical vein endothelial cell line).

## Shipping and Storage

The storage and shipping conditions are listed in the following table:

	Specifications
Shipping conditions	Ambient
Storage conditions	In the dark at 2-8°C
Shelf life	Under proper storage conditions as indicated on vial
Quality Control	See Certificate of Analysis (on request)

## Precautions

- Use only for research purposes, not for human use.
- This product contains bovine serum albumin.
- Prior to using this medium, perform the recommended compatibility test for the appropriate cell type.
- The manufacturer shall not be responsible for any accident or damage caused by the use of this product.

## Cell Freezing Protocol

- Harvest the cells in the logarithmic growth phase and determine the cell number.
- Resuspend the cells in ibidi Freezing Medium DMSO-Free and adjust the cell concentration to  $5 \times 10^5$  -  $1 \times 10^7$  viable cells/ml.
- Pipette 1 ml cell suspension into each cryogenic tube and freeze the cells at -80°C for 24 - 72 hours without preliminary freezing.  
**Note:** Freezing the cells in a freezing container with defined cooling rates is also possible.
- If required, transfer the frozen cells into liquid nitrogen.

**Cell Thawing Protocol**

- Thaw the frozen cells in a constant-temperature chamber or water bath at 37°C.
- Suspend the cells into approximately 10 times the volume of fresh culture medium.
- Mix well and spin down the cell suspension at 200 ×g for 3 minutes. Remove the supernatant. Now, cells are ready for culturing and following procedures.

**Ordering Information**

ibidi Freezing Medium is available in different product versions.

Cat. No.	Description	Amount
80022	<b>ibidi Freezing Medium Classic:</b> with Bovine Serum Albumin	5 × 20 ml
80023	<b>ibidi Freezing Medium Classic:</b> with Bovine Serum Albumin	120 ml
80024	<b>ibidi Freezing Medium Direct:</b> no cell centrifugation required, with Bovine Serum Albumin	20 ml
80025	<b>ibidi Freezing Medium HRM:</b> for ES and iPS cells, with Human Serum Albumin, no animal components	20 ml
80026	<b>ibidi Freezing Medium DMSO-Free:</b> for sensitive cells, with Bovine Serum Albumin	20 ml

**For research use only!**

Further technical specifications can be found at [www.ibidi.com](http://www.ibidi.com). For questions and suggestions please contact us by e-mail [info@ibidi.de](mailto:info@ibidi.de) or by telephone +49 (0)89/520 4617 0. All products are developed and produced in Germany.

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