# NutriFreez™ D10 Medium

## Powerful cryopreservation media optimized for various cells and tissues


- High recovery post thaw
- Ready-to-use solution
- Serum-free and protein-free
- Chemically defined
- cGMP-manufactured

**NutriFreez™ D10 Cryopreservation Medium** is an optimized freezing solution designed and validated for the cryopreservation of various tissue and cell types, including but not limited to sensitive cell types such as hESCs, iPSCs, and MSCs. NutriFreez™ D10 Medium maintains defined and animal component-free conditions during cryopreservation, essential to maintaining consistency when culturing cells in a xeno-free system. NutriFreez™ D10 Medium is ready-to-use and pre-formulated with DMSO, providing a protective environment for cells during the freezing, storage, and thawing process. Cells preserved with NutriFreez™ D10 Medium show excellent attachment (Figure 1) and maintain proper pluripotency marker expression after thawing, with superior results compared to both serum-containing freezing media, other serum-free solutions, and homebrew formulations[1].

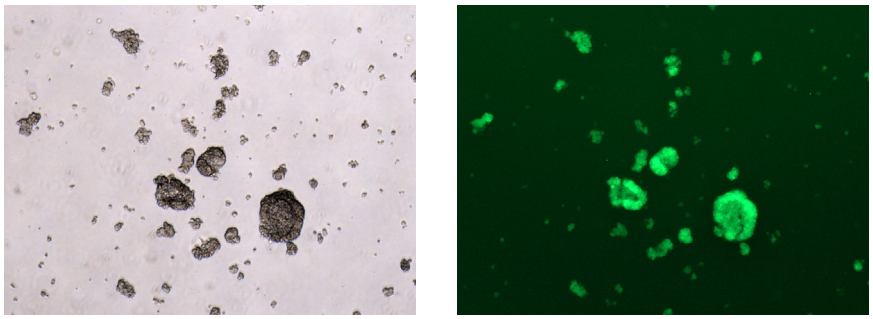

**Figure 1:** BGO1V/hOG cells (an Oct4-GFP reporter hES cell line) frozen in NutriFreez™ D10 Medium and thawed into NutriStem® hPSC Medium on Matrigel. Images taken just 1 hour post-thaw show excellent survival and attachment of the hES cells, with high expression of Oct4 (green).

### Applicable Cell Types

- Human Embryonic Stem Cells
- Induced Pluripotent Stem Cells
- Human Mesenchymal Stem Cells
- Peripheral Blood Mononuclear Cells
- Human Endothelial Cells
- T cells, including Chimeric Antigen Receptor (CAR T) Cells and Tumor Infiltrating Lymphocytes (TILs)
- Neuron Cells
- Hybridomas
- CHO Cells
- Vero Cells
- Multiple mammalian cell lines: MRC-5, HEK-293, HepG2, HeLaBSC-1, BGM3T3, MA-10BHK-21

### ORDERING INFORMATION

| PRODUCT | CAT. # | SIZE |
|---|---|---|
| NutriFreez™ D10 Medium | 05-713-1E | 50 mL |
| | 05-713-1B | 100 mL |
| | 05-713-1A | 500 mL |

Bulk orders, bags, custom volume fills and packaging are available upon request.

Biological Industries USA | T. 860.316.2702 F. 860.269.0596 | orders@bioindusa.com

1. Nishishita N, et al. An effective freezing/thawing method for human pluripotent stem cells cultured in chemically-defined and feeder-free conditions. AJSC 2015;4(1):38-49.