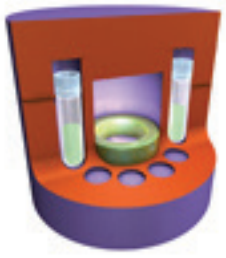
CoolCell® LX

Standardized Cell Freezing

Alcohol-Free

- High post-thaw viability and proliferation
- Highly reproducible freeze runs
- -1°C/minute freeze rate in -80°C freezer
- Numbered vial holes for identification
- Beveled design for quick tube retrieval
- No alcohol
  No on-going cost
  No maintenance

CoolCell LX freezing containers provide a highly reproducible -1°C/minute freezing rate for cell cryopreservation providing more cells, faster, for your research. No alcohol is required; simply place CoolCell LX filled with cryogenic vials in a -80°C freezer. The new beveled design allows easy opening with access to the vial tops, simplifying transfer. Numbered vial holes allows indexing and quick removal of cryogenic vials. CoolCell LX accommodates 12 cryogenic vials and is available in two sizes for small 1 to 2ml cryogenic vials or large 3.5 to 5ml cryogenic vials.



The solid state core and micro-convection technology precisely balance heat removal during freezing period to ensure repeatable, consistent cooling all the way to cryogenic storage temperature.

Ordering Information

BCS-405	● CoolCell LX, purple	12 x 1-2 mL
BCS-405G	● CoolCell LX, green	
BCS-405O	● CoolCell LX, orange	
BCS-405PK	● CoolCell LX, pink	
BCS-406	● CoolCell 5ml LX, purple	12 x 3.5 - 5 mL

CoolCell is proven for use with a variety of cells, including:

Stem Cell/ Pre-Stem Cell
Human Embryonic Stem
Preadipccytes
Breast Cancer Stem
Colon Cancer Stem
Gliablastoma Cancer Stem
Mouse Embryonic Stem
Human Endothelial
Progenitor

Primary Cells
Neonatal Keratinocytes
Human WBCs
Mouse
WBCs
Human CD34+
Muscle
Human Tendon Fibroblasts
Melanoma Tumor
Human Cardiac Ventricular-
Human Cardiac Atrial

Cell Lines
CHO
LnCap
HTB77
A549
HeLa

Stem Cells

Fig 1

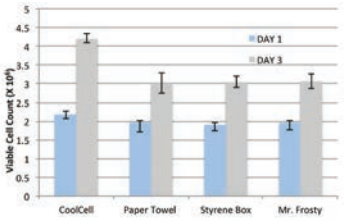


Fig 2

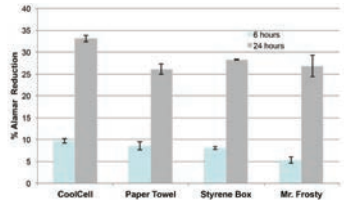


Fig. 1. Human embryonic stem cells, RC-10 were frozen using the technique indicated, thawed after 2 weeks in LN2, and counted immediately (Day 1) or after 3 days of growth (Day 3). **Fig. 2.** Alamar blue reduction assay for proliferation assessment showed cells frozen in CoolCell grew more quickly, leading to more total cells.

Primary Cells

Fig 3

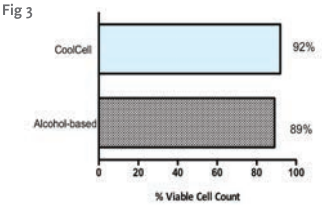


Fig 4

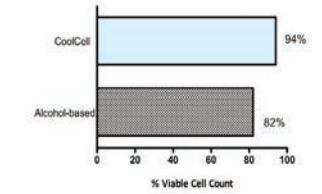


Fig. 3. PBMC cells frozen in CoolCell or "Mr Frosty" isoproponal containers were thawed and live cell counts obtained the trypan blue method. CoolCell performed as well as Mr. Frosty without the requirement for alcohol. **Fig. 4** HUVEC cells frozen in CoolCell or "Mr Frosty" isoproponal containers were thawed and live cell counts obtained by the trypan blue method. CoolCell significantly outperformed "Mr. Frosty".

Cell Lines

Fig 5

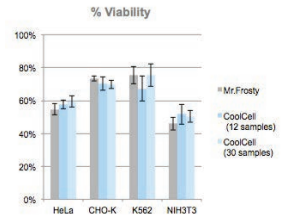


Fig 6

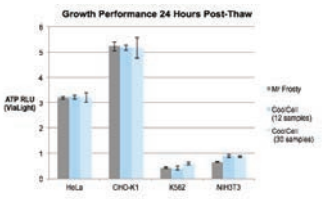


Fig. 5. HeLA, CHO-K, K562, NIH3T3. CoolCell 12-well, CoolCell FTS30 30-well or "Mr. Frosty" freezing containers were used to freeze all four cell lines. Identical transfection efficiencies and viabilities were observed after thawing. **Fig. 6.** Identical growth of cells was observed 24 hours post-thaw.

Other cryopreservative products

CoolCell FTS30

CoolCell FTS30 high-capacity cell freezing system. Freeze 30 1 mL or 2 mL vials at controlled -1°C/minute cell freezing rate. All vials freeze uniformly.

Item No.	Description
BCS-170	CoolCell FTS30, purple
BCS-170G	CoolCell FTS30, green
BCS-170O	CoolCell FTS30, orange
BCS-170PK	CoolCell FTS30, pink

CryoCeps™

Cryogenic vial grippers grab internal- or external-threaded cryogenic vials and protect fingers while sorting cryogenic vials. Ideal for transferring from liquid nitrogen or dry ice. 2 per pack.

Item No.	Description
BCS-213	CryoCeps, green

CoolCell Filler Vial

Insert a CoolCell Filler Vial into empty wells when freezing less than a full batch.* Filled with glycerol and suitable for repeated use. Compatible with CoolCell LX, CoolCell, CoolCell 5ml LX and CoolCell FTS30. *Note: It is important to fully load each CoolCell unit prior to freezing.

Item No.	Description	
BCS-3105	CoolCell Filler Vial, 2 mL	6 per pack
BCS-3106	CoolCell Filler Vial, 5 mL	6 per pack

TruCool® Cryogenic vials

Available with internal or external threads for a secure, leak-proof seal. Thermally-fused gasket layer on each cap replaces traditional O-ring. Each tube is individually barcoded. 500 per case.

Internal Thread Item No.	External Threads Item No.	Description
BCS-2410	BCS-2400	1 mL, Self-Standing
BCS-2411	BCS-2402	2 mL, Self-Standing
BCS-2412	BCS-2401	2 mL, Round Bottom
—	BCS-2403	3 mL, Self-Standing
BCS-2413	—	4 mL, Round Bottom
BCS-2414	BCS-2404	4 mL, Self-Standing
BCS-2415	—	5 mL, Round Bottom
BCS-2416	BCS-2405	5 mL, Self-Standing

CoolCell Protecting Agents

Cell biology grade Glycerol and DMSO cryoprotectants. Dual markings (% of mL) for adding media and buffers to desired concentration. Prepare from 12.5 mL (20%) to 50 mL (5%) of cryopreservative solution.

Item No.	Description
BCS-3010	CoolCell Protecting Agent, DMSO
BCS-3011	CoolCell Protecting Agent, Glycerol

TruCool CryoBoxes

Hinged CryoBoxes are easy to open - even when frozen. Coated cardboard boxes feature dual indexing (1-81 and A1-I9), white patch for marking or barcoding, and durable 81-place adjustable plastic grid. For 1 mL or 2 mL cryogenic vials.
Dimensions: 12.7 x 12.7 x 5.1 cm (5 x 5 x 2 inches)

5 per pack	50 per pack	Description
BCS-206	BCS-207	Hinged CryoBox, white
BCS-206B	BCS-207B	Hinged CryoBox, blue
BCS-206G	BCS-207G	Hinged CryoBox, green
BCS-206O	BCS-207O	Hinged CryoBox, orange
BCS-206P	BCS-207P	Hinged CryoBox, purple
BCS-206PK	BCS-207PK	Hinged CryoBox, pink

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