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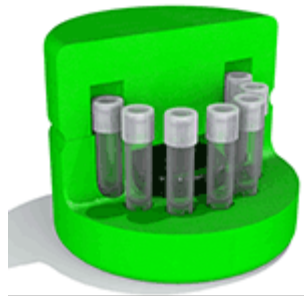
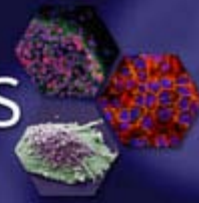


April 2016

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cell passages



CoolCell[®] LX Alcohol-free Cryopreservation Container

CoolCell[®] LX cryopreservation container ([ATCC[®] ACS-6000[™]](#)) reliably provides the ideal conditions for the safe and effective cryopreservation of your cells. Unlike other cryogenic containers, alcohol is not required.

Simply load the CoolCell LX container with up to 12 cryovials and place it in a -80°C freezer. Your samples will be ready for long-term storage in liquid nitrogen within four hours. Provide your cells with repeatable, consistent cooling with CoolCell LX!

[Order](#) the CoolCell LX cryopreservation container ([ATCC[®] ACS-6000[™]](#))!



Cell Proliferation Assay Kits

MTT and XTT Cell Proliferation Assay kits ([ATCC[®] 30-1010K[™]](#) and [ATCC[®] 30-1011K[™]](#)) are convenient and valuable tools for the quantitative evaluation of a cell population's response to external factors that affect viability and growth. These kits provide accurate and straightforward quantification of changes in cell proliferation for high-throughput screening for drug sensitivity, cytotoxicity, and response to growth factors.

[Monitor](#) the growth of your cells.



Cryopreservation Reagents

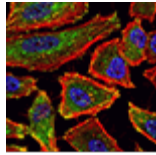
Cryopreservation of cultured cells is an important step in the workflow of researchers. In addition to trial and error, quality reagents are critical to achieve satisfactory levels of cell viability and recovery after thawing. ATCC provides cell culture grade

Dimethylsulfoxide(DMSO; [ATCC[®] 4-X[™]](#)) and a Serum-free

Cryopreservation Medium ([ATCC[®] 30-2600[™]](#)) to help ensure the

post-thaw viability of your cells.

Ensure the viability of your cells with cell culture grade [DMSO](#) and [Serum-free Cell Freezing Medium](#).



Cell Collections, Cell Culture Systems, and Cell Health Detection Kits

ATCC was entrusted with its first cell line in 1962, and, for the next several decades, has been synonymous to *in vitro* cell culture. Our diverse and comprehensive resources in cell biology has afforded us the ability to provide complete solutions for your cell culture needs, including cells, media, reagents, and cell health detection kits. To help you get the most from these materials, ATCC has also compiled a variety of cell-specific culture guides, user-friendly how-to instructions, and tips and techniques by tapping into our many years of cell culturing experience, knowledge, and expertise. For your convenience, each of these valuable resources has been made available on the ATCC website.

[Browse](#) ATCC's diverse and comprehensive cell biology resources.



Webinar: Best Practices in Cryopreservation

Steven Budd, M.S., M.B.A
Product Line Business Specialist,
ATCC

Cryopreservation is the use of very low temperatures to structurally preserve intact living cells and tissues. Normally, the freezing of water in cells causes catastrophic damage to cellular structure by physical damage of ice formation and increased imbalance of solutes. Cryopreserving cells with the proper cryoprotectants and techniques will maximize viability of cells for cell culture. This webinar presentation will discuss best practices for cryopreservation focusing on determining optimal



Webinar: The ATCC Story: A Ninety Year Celebration

Frank Simione, M.S.
*Director, Standards, Standards
Resource Center, ATCC*

ATCC celebrated its 90th anniversary in 2015 and in recognition of that milestone this presentation tells the remarkable story of ATCC's evolution as an organization and its contribution to developments in life sciences for nearly a century. Established in 1925 as the American Type Culture Collection by scientists for scientists, it has become an international resource for life science research and development. Dependent on financial subsidies for more than

freezing rates and cryoprotectants, selecting proper containment units, managing a biorepository, and handling cells post-thaw.

Emphasis will be placed on reviewing time-proven techniques while introducing newer innovative approaches to maximize reliability in cryopreservation for modern day cell culture.

April 21, 2016

10:00 AM or 3:00 PM ET

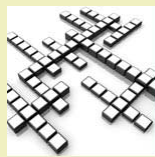
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75 years, ATCC has since achieved independence as a fully self-sustaining non-profit organization. ATCC is now investing in research and development, and in 2012 was able to establish and fully fund the Global Biological Standards Institute (GBSI). This is the story of that amazing transformation and the role of ATCC in the evolution of the life sciences.

April 28, 2016

10:00 AM or 3:00 PM ET

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ATCC Puzzle

Try this [month's crossword puzzle](#)

and test your knowledge of cryopreservation! The solution will appear in next month's issue.

For the solution to last month's Astrocyte Analysis puzzle [click here](#).

Publications

- [Cryogenic Storage of Animal Cells](#)
- [Guide to Subculturing Cell Line Monolayers](#)
- [Tumor Cell Panels Brochure](#)
- [Cell Lines by Gene Mutation Brochure](#)
- [Comparison of the MTT and XTT Cell Proliferation Assay Kits](#)
- [CoolCell® LX Alcohol-free Cryopreservation Containers](#)



Frequently Asked Questions

Q: Why is it important to cryopreserve stocks of cell cultures?

A: Some of the reasons to cryopreserve stocks of cell cultures include the following: Insurance against loss of the culture from equipment failures or contamination by microorganisms or other cell lines. Elimination of the time, energy, and materials required to maintain cultures not in immediate use. Insurance against phenotypic drift in the culture due to genetic instability and/or selective pressure. Creation of a standard reagent to be used for a series of experiments.

[Have more questions?](#)

Cell Biology Collections

Cell Line Authentication

Facebook

Cell Biology Resources

Cell Culture Conversation

ATCC - 10801 University Boulevard, Manassas, VA 20110

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