November 2012

ATCC™ | THE ESSENTIALS OF LIFE SCIENCE RESEARCH GLOBALLY DELIVERED™

microscoop

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ATCC and Pharmaceutical Quality Control

The pharmaceutical industry looks to ATCC to provide top-quality, authenticated strains and associated molecular materials necessary for microbiological testing of pharmaceutical products. With these tools, pharmaceutical companies can maintain the highest levels of product integrity throughout process validation, manufacturing, and quality control.

ATCC Certified Reference Materials

Microbial contamination of parenteral products is a serious issue affecting the pharmaceutical industry. To ensure the sterility of these injectable medications, pharmaceutical manufacturing companies are required to follow current Good Manufacturing Practices, and sterility protocols described in the United States Pharmacopeia (USP). These practices are intended to assure the proper design, monitoring, and control of all manufacturing procedures to confirm product sterility. To support the pharmaceutical industry in maintaining product sterility, ATCC has organized panels of certified reference materials based on federal guidelines and regulations. These strains are produced under an ISO Guide 34:2009 accredited process to confirm the identity, characteristics, and chain of custody to ensure their effectiveness as biological standards in pharmaceutical manufacturing and quality control.

- Antimicrobial Effectiveness Testing Panel (ATCC® MP-16™)
- Microbial Enumeration Testing Panel (ATCC® MP-17™)

Learn more ▸

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Associated Links

ATCC® Virology Culture Guide – *New!*

A manual featuring tips and techniques for propagating viruses.

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ATCC® Bacterial Culture Guide – *New!*

A manual featuring tips and techniques for culturing bacteria and bacteriophages

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ATCC® Mycology Culture Guide – *Coming Soon!*

A manual featuring tips and techniques for culturing yeasts and filamentous fungi.

Recommended Cultures for Pharmaceutical Microbiology

A list of ATCC Genuine Cultures® recommended for official microbial assays and tests on pharmaceutical products.

Learn more ▸

View from the Petri Dish

An ATCC blog highlighting the intersection between microbiology and society.

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Announcements

American Society of Microbiology (ASM)

May 18-21, 2013

ATCC in the World – Developing Novel Methods to Test Antimicrobial Drugs using ATCC Standards

In light of high production costs associated with manufacturing new antimicrobial drugs, a more cost-effective and convenient method for analyzing drug efficacy is needed. To combat this problem, Zhou *et al*. used ATCC standardized reference strains (ATCC® 25922™, 14990™, 29213™) to analyze the efficacy of a microplate time-kill method that is convenient, economical, and stable[1]. This novel high throughput screening method uses significantly smaller volumes of drugs, conveniently allows for direct measurements of microbial turbidity, and provides reproducibility among replicate experiments. Get started on improving the analysis of your antimicrobial drugs today using ATCC reference strains!

Learn more ▸

[1]Zhou Y, *et al*. Comparison of microplate and macrodilution methods in time-kill study of new antimicrobial drugs. Folia Microbiol, Epub ahead of print, 2012.

Webinars

Webinar presentation – Non-O157 Shiga Toxin-Producing *Escherichia coli*

November 15, 2012
1:00 pm (EST)

Register now ▸

Missed One of the ATCC® Webinars?

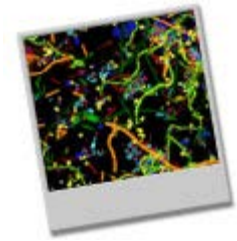
View them online – anytime!

View our webinars ▸

Technical Tips

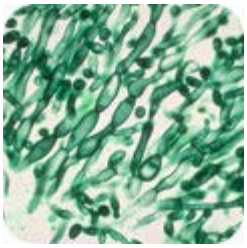
Reference Strains: How Many Passages Are Too Many?

Learn more ▸



Microbes! Beautiful Microbes! – ATCC Photo Contest

Get your ATCC microbes dolled up and ready for their close-ups. Starting in January 2013, ATCC will be looking for microbial images that steal the show! You will have the opportunity to send us your most beautiful and scientifically stunning images of ATCC microbes, for the chance to win great prizes. Check out the December issue of microscoop for more information.



Candida albicans Drug Resistance (CaDR) Panel – *Available Now!*

Enhance the development of novel antifungal medications using the ATCC *Candida albicans* Drug Resistance (CaDR) Panel (ATCC® MP-8™). This panel consists of 14 *C. albicans* strains, including 12 strains resistant to one or more antifungal drugs, and 2 negative control strains. The antifungal resistance of each strain was analyzed against anidulafungin, micafungin, caspofungin, 5-flucytosine, voriconazole, itraconazole, and fluconazole.

Learn more ▸

Antifungal Susceptibility Testing Panel – *Available Now!*

Test the efficacy of your antifungal drugs against invasive and cutaneous filamentous fungi using the ATCC Antifungal Susceptibility Testing Panel (ATCC® MP-5™). This panel consists of 14 quality control and reference strains used for broth dilution procedures described in the Clinical and Laboratory Standards Institute (CLSI) document M38-A2 Reference Method for Broth Dilution Antifungal Susceptibility Testing of Filamentous Fungi, Approved Standard – Second Edition.

Learn more ▸

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