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ATCC®

June 2016

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Tools for Molecular-based Assays

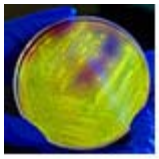
Numerous advancements in molecular technology have changed the way pathogenic microorganisms are detected and identified in clinical settings. PCR-based tools now offer rapid, sensitive detection of infectious diseases directly from patient samples without the need to culture, enabling faster treatment and improved rates of recovery.

To help in the design and validation of molecular-based assays, ATCC offers a variety of easy-to-use tools, including:

- Genomic nucleic acids isolated from clinically-relevant strains
- Synthetic nucleic acids representing key target regions from difficult-to-culture and high containment microorganisms
- Certified reference materials for validating or comparing test methods

Each of our molecular products is evaluated for integrity, purity, concentration, functional activity, and identity, so you can be sure you are obtaining the highest quality materials. What's more, we are continually expanding our portfolio to include quantitative preparations to aid in establishing analytical sensitivity and specificity.

Start developing your assays today!



Culture-based Testing

When developing or performing assays for identifying microorganisms, evaluating minimum inhibitory concentration, or determining antibiotic resistance or

Tools for Clinical Research

ATCC offers a variety of *in vitro* tools, models, and panels that support ongoing research efforts on genetic, hereditary, and infectious

susceptibility, it is important to have the right controls. To support this need, ATCC offers a variety of authenticated, minimally passaged microbial strains specified or recommended for use with commercial kits and instruments.

Ensure the quality of your assays.

diseases. These products provide you with the relieability of fully authenticated and characterized reference materials for the development and evaluation of dependable assays.

Strengthen your clinical research today!

Are you going to ASM Microbe 2016? We are!

ATCC has been inspiring creative research and innovative discoveries with reliable controls for over 90 years. We invite you to visit us at booth #926 to learn more about our newest:

- Multidrug-resistant research materials
- Strains for infectious disease research
- ATCC® Minis for VITEK® 2
- Quantitated genomic and synthetic nucleic acids

And, while you're there, show off your artistic side! Ask us for an entry card to draw your favorite ATCC culture to receive a free t-shirt.*

Quiz the Scientist

I am a non-motile, Gram-negative, diplococcal bacterium known to cause infections in the respiratory system and middle ear. I am one of the leading causes of otitis media in children. Can you guess what I am?

Click here for more clues.

ATCC Puzzle

Test your microbial expertise with the ATCC puzzle! Download the puzzle

Still puzzled?
View the answers to last month's puzzle.

Publications

- ATCC Culture Guides
- ATCC® Genuine Nucleics
- Quantitative Nucleic Acids
- Quality Control Strains for Commercial Assays

Frequently Asked Questions

Q: What QC tests are routinely performed on genomic DNA?

A: ATCC measures concentration and total DNA amount by a variety of methods, including PicoGreen® and Droplet Digital™ PCR. DNA Purity is determined by A260/A280 ratio using a spectrophotometer. Genomic DNA molecular weight and quality are determined by agarose gel electrophoresis of uncut DNA. In addition, the performance of DNA is evaluated by restriction enzyme digestion and followed by agarose gel electrophoresis.

Have more questions?

Quality Control

Assay Development

Multidrug Resistance

Microbiology Resources

View from the Petri Dish

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