



January 2016

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Assay Development for the Molecular Detection of Sexually Transmitted Infections

Over the past decade, there has been an alarming increase in the emergence of new cases of sexually transmitted infections (STIs).

The high morbidity and mortality often attributed to STIs have significantly impacted global public health. Further, the cost associated with treating and managing these infections in the USA alone is estimated to be 15.6 billion¹. As a result of their profound impact on both human health and the global economy, there is a need for rapid and sensitive methods of detecting STIs to ensure timely treatment and reduction of transmission rates.

To support the development of molecular-based methods of detection, ATCC offers a growing collection of quantitative genomic and synthetic nucleic acids, including:

- Quantitative Synthetic *Mycoplasma genitalium* DNA ([ATCC® BAA-2641SD](#))
- Quantitative Synthetic *Treponema pallidum* DNA ([ATCC® BAA-2642SD](#))
- Quantitative Synthetic Human immunodeficiency virus 1 (HIV-1) RNA ([ATCC® VR-3245SD](#))
- Quantitative Synthetic Human papillomavirus 16 DNA ([ATCC® VR-3240SD](#))
- Quantitative Synthetic Human papillomavirus 18 DNA ([ATCC® VR-3241SD](#))
- Quantitative Synthetic Hepatitis B virus DNA ([ATCC® VR-3232SD](#))
- Quantitative Genomic DNA from Human herpesvirus 1 (HSV-1) ([ATCC® VR-539DQ](#))
- Quantitative Genomic DNA from Human herpesvirus 2 (HSV-2)

[\(ATCC VR-540DQ\)](#)

ATCC® Genuine Nucleics save you the time and expense associated with culturing and extracting the nucleic acids yourself, allowing you to develop your molecular-based assays faster.

To order these preparations, or to learn more about our products that support STI research and assay development, visit us online at www.atcc.org/STI.

Reference:

1. Abou Tayoun AN et al. A multiplex PCR assay for the simultaneous detection of *Chlamydia trachomatis*, *Neisseria gonorrhoeae*, and *Trichomonas vaginalis*. *Exper and Mol Biol* 98(2): 214-218, 2015.



Assay Development

ATCC is committed to developing new

biological tools, providing customized solutions, and promoting scientific advances by supplying a broad range of products that support unique assay development needs. ATCC's scientific expertise provides highly customized solutions to meet your basic, applied, and clinical research demands in assay development, including cultures, nucleic acid standards, and fully sequenced strains.

[Learn](#) more about how ATCC can help you explore the possibilities, starting with the design phase of assay development.



Tools for Clinical Research

Clinical research is

vital in the development of new and better ways to accurately detect genetic, hereditary, and infectious diseases. To aid in this endeavor, ATCC offers extensive reference materials that can be used to determine the sensitivity and specificity of molecular- and culture-based diagnostic tools. Strengthen your clinical research today with fully authenticated and characterized reference materials, including:

- [Human cancer cell lines](#)
- [Cell lines representing genetic diseases](#)
- [Pathogenic microorganisms](#)
- [Genomic DNA and RNA](#)
- [Synthetic nucleic acids](#)

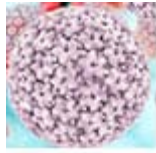


ATCC Video Contest

Celebrate with ATCC its 90 years of supporting the global scientific research community by entering the 2015 Video Contest. Submit a video up to three minutes in length demonstrating how ATCC's microbiology and cell biology products and/or services have been leveraged in your innovative and scientific research for a chance to win the \$1,500.00 grand prize or \$1,000.00 first place

prize, or an ATCC product credit in lieu of these prizes*.

[Enter today!](#) All videos must be submitted by 11:59 PM ET on February 10, 2016.



Quiz the Scientist

I am a common sexually transmitted infection that can cause cancer. I can be prevented through vaccination. 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](#)
- [Synthetic Nucleic Acids](#)
- [Sexually Transmitted Infection Reference Materials](#)



Frequently Asked Questions

Q: How are ATCC synthetic nucleic acids stabilized?

A: Each synthetic DNA or RNA preparation is stabilized using a DNA- or RNA-based BioMātrica[®] stabilization matrix (DNAstable[®], RNAstable[®]) to ensure consistent results run after run.

[Have more questions?](#)

Quality Control

Assay Development

Multidrug Resistance

Microbiology Resources

View from the Petri Dish

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