

TrueMark STI Select Panel

Real-time PCR for research in the detection of sexually transmitted infections

Optimize your STI research testing with a reliable, accurate, and sensitive molecular solution

The global prevalence of sexually transmitted infections (STIs) is measured at more than 1 million new cases every day, most of which are asymptomatic. Accordingly, there are approximately 374 million new infections each year, which include three of the most common curable STIs: chlamydia, gonorrhea, and trichomoniasis [1]. These three STIs, as well as the bacterium *Mycoplasma genitalium*, can lead to complications including cervicitis, urethritis, preterm labor, and pelvic inflammatory disease (PID). They can also increase the risk of contracting HIV.

This makes the detection of common prevalent STIs important for clinical researchers to understand outbreaks and disease etiology.

The Applied Biosystems™ TrueMark™ STI Select Panel employs real-time PCR technology, offering an end-to-end workflow for the detection of common STIs by utilizing the power of Applied Biosystems™ QuantStudio™ real-time PCR (qPCR) systems.*

The TrueMark STI Select Panel includes multiplexed assays in a single-tube format to detect *Chlamydia trachomatis*, *Neisseria gonorrhoeae*, *Mycoplasma genitalium*, and *Trichomonas vaginalis*, as well as an internal process control, in the same reaction. QuantStudio real-time PCR systems enable rapid, accurate detection and categorization of these microorganisms that cause four common STIs.

Features of the TrueMark STI Select Panel



Single-tube multiplexed assay

It's easy to identify STIs confidently with four pathogen targets and an RNase P human internal process control all in a single well



Controls included

Included RNase P and positive controls offer reliable runs time after time



Ease of use

Easily implement the panel with an end-to-end workflow—from sample preparation to software-generated results in about 4 hours



Flexible throughput

Scalable to fit your needs, allowing you to test from 1 to 94 samples per run

TrueMark STI Select Panel

Product details	
TrueMark STI Select Panel, Combo Kit components	TrueMark STI Select Panel TrueMark Infectious Disease 1-Step Multiplex Master Mix (No ROX)
Targets	<i>Chlamydia trachomatis</i> (CT) <i>Neisseria gonorrhoeae</i> (NG) <i>Mycoplasma genitalium</i> (MG) <i>Trichomonas vaginalis</i> (TV)
Internal process control	RNase P
Positive control	TrueMark STI Amplification Control**
Sample type	Urine ***, vaginal***, or genital swab
Real-time PCR instruments	<ul style="list-style-type: none"> QuantStudio 5 Real-Time PCR System (96-well, 0.2 mL) QuantStudio 5 Dx Real-Time PCR System (96-well, 0.2 mL)* QuantStudio 7 Pro Real-Time PCR System QuantStudio 7 Pro Dx Real-Time PCR System* QuantStudio 7 Flex Real-Time PCR System QuantStudio 12 Flex Real-Time PCR System
Turnaround time	Less than 4 hours
Software	QuantStudio Design and Analysis v2.6 or later

Benefits of buying from Thermo Fisher Scientific



Complete end-to-end solution

Optimized for use on QuantStudio qPCR systems with verified sample-to-answer research workflow



Expertise in assay design

Select from a broad menu of real-time PCR panels covering respiratory, gastrointestinal, urinary, vaginal, and STI pathogens



Exceptional service and support

Analytical verification consultation services available to help implement solutions for research with ease

Benefits of molecular testing



Increased sensitivity

More specific, accurate, and precise compared to traditional culture and microscopy methods



Timely results

Faster compared to traditional manual methods



Compatible with QuantStudio real-time PCR instrumentation*

TrueMark STI Select Panel workflow

Utilize an end-to-end workflow to expand your molecular infectious disease research menu

The TrueMark STI Select Panel features a single-tube multiplexed assay option, including four STI targets and an internal process control, and is optimized for use on QuantStudio qPCR systems.

Go from sample to result in approximately 4 hours.

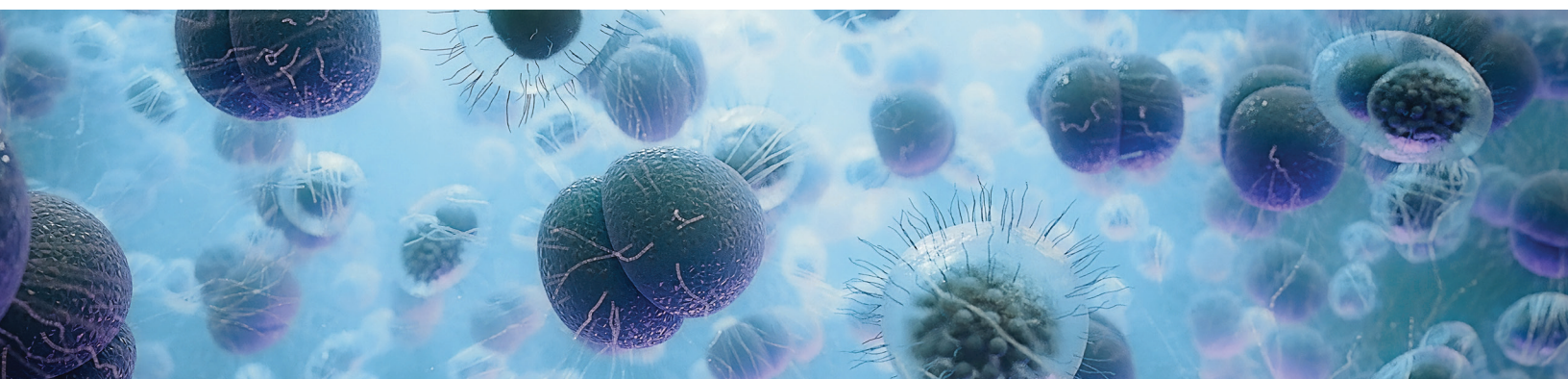


Increased productivity, analytical sensitivity, and specificity with qPCR technology

Implementing genetic analysis systems and solutions in the laboratory has been directly linked to improved efficiencies, cost savings, and faster time-to-analysis of results [2]. qPCR can detect slow-growing, difficult-to-cultivate microorganisms, making it ideal for when culture methods are inadequate, ambiguous, time-consuming, difficult, or costly.

Analytical validation consultation services

We offer analytical validation consultation services to help develop and optimize your research workflow and implement it into your laboratory with ease—potentially reducing your overall time-to-test launch by 75% [3]. Our team also offers workflow training to help ensure your success.



Ordering information

Description	Component	Quantity	Cat. No. [†]
Combo kit components			
TrueMark STI Select Panel Combo Kit, 200 reactions	TrueMark STI Select Panel	1 tube x 250 µL	A57083
	TrueMark Infectious Disease 1-Step Multiplex Master Mix (No ROX)	1 tube x 1.5 mL	

Additional components required

Description	Quantity	Cat. No.
TrueMark STI Amplification Control (1 x 10 ⁵ copies/µL)	1 tube x 25 µL	A57009

Recommended components for sample preparation

Description	Quantity	Cat. No.
KingFisher Apex Purification System	1 unit	5400910
KingFisher Flex Purification System	1 unit	A32681
MagMAX Viral/Pathogen Ultra Nucleic Acid Isolation Kit	100 reactions	A42356
MagMAX Viral/Pathogen Nucleic Acid Isolation Kit	200 reactions	A42352
MagMAX Viral/Pathogen II Nucleic Acid Isolation Kit	1,000 reactions	A4833R

References

1. Sexually transmitted infections (STIs) (2022) World Health Organization. Available at: [https://www.who.int/news-room/fact-sheets/detail/sexually-transmitted-infections-\(stis\)](https://www.who.int/news-room/fact-sheets/detail/sexually-transmitted-infections-(stis)) (Accessed: December 16, 2022).
2. Davenport M et al. (2017) New and developing diagnostic technologies for urinary tract infections. *Nat Rev Urol* 14:296–310.
3. Thermo Fisher Scientific. (2022) Analytical Validation Consulting Services. thermofisher.com/av

* Applied Biosystems™ QuantStudio™ 5 Dx and QuantStudio™ 7 Pro Dx systems are For *In Vitro* Diagnostic Use. The test development mode on these systems is for Research Use Only. Not for use in diagnostic procedures.

**TrueMark STI Amplification Control required. Sold separately.

*** Internally tested sample type.

† Components sold together as a combo kit.

 Learn more at thermofisher.com/truemarkstiselectpanel

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