

# BD Viper™ System with XTR™ Technology

The Fast Track to Molecular Testing Success



Helping all people  
live healthy lives



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A high-speed **solution** to a pressing  
**clinical need**

Rising prevalence and a better understanding of underlying health risks are increasing the demand for testing of *Chlamydia trachomatis* (CT) and *Neisseria gonorrhoeae* (GC), Herpes Simplex Virus 1 & 2 (HSV1 & HSV2)\*, and Human Papillomavirus (HPV)\* in targeted populations around the world. This demand comes at a time when laboratories are challenged by the pressure to contain healthcare costs, a shortage of trained personnel and expectations to deliver more results and higher quality results with fewer resources. The BD Viper™ System with XTR™ Technology meets these challenges—with fully automated molecular testing that can put you on the fast track to urogenital DNA testing success.

To meet your urogenital DNA testing requirements the BD Viper System in extracted mode (BD Viper System with XTR Technology) delivers:

**Fully automated sample processing**

**The least amount of hands-on time for maintenance and set up**

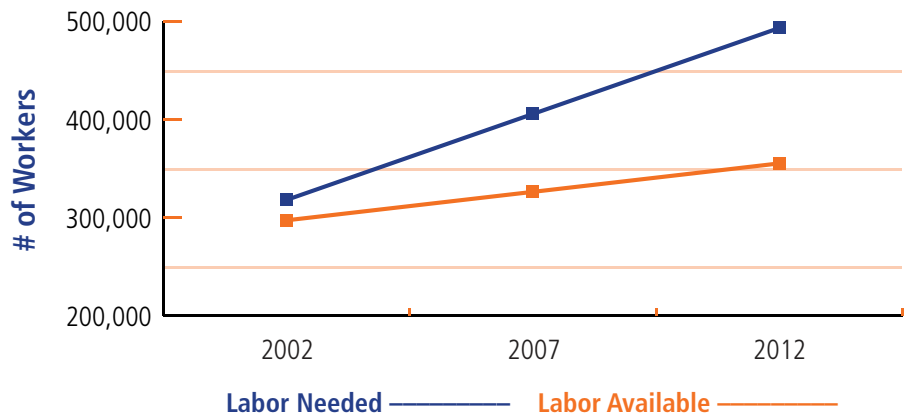
**Total System Integrity**

**Reliability puts you ahead—and keeps you there**

- Maximum system uptime: Estimated 180 days mean time between failure (MTBF).<sup>1</sup>
- Designed-in reliability: Fewer moving parts—no vacuum pumps, valves, syringes or reagent tubing.
- Confidence-building, quality results: Proven sensitivity and specificity in CT/GC testing with Strand Displacement Amplification (SDA) technology.<sup>2</sup>
- Worry-free operation: Automatic system checks prior to and during each run.

## Projected Gap Between Labor Demand and Supply of Laboratory Workers<sup>3</sup>

The Bureau of Labor Statistics forecasts the supply of laboratory workers will grow from 297,000 in 2002 to 355,000 in 2012—an annual average rate of 1.7 percent. Yet nearly a half million laboratory workers will be needed to meet increased demand for services. This leaves a shortfall of 138,000 workers or nearly 40 percent of current supply.



## Get the most from your investment

- Expand urogenital testing while achieving cost-efficiency: Build capacity with the BD Viper System with XTR Technology and deliver the highest quality results.
- Maximize your capital investment: BD Viper System with XTR Technology fits right into your lab, alongside other systems, eliminating cost for special facilities.
- Pull ahead of the competition: Eco-friendly, waste-minimizing design, advanced engineering and proven SDA technology put your lab on the forefront of CT/GC testing.
- Partnership with BD ensures success: From process optimization to outreach and lab marketing, BD Diagnostics will help you leverage the opportunity in CT/GC testing.

## Fully automated sample processing

- Full range of sample types: On-board sample extraction handles vaginal, endocervical, male urethral swabs, urine, and liquid-based cytology.\*
- Walk-away convenience: Load and go capability allows techs to get more work done.
- High throughput molecular testing: Up to 736 CT/GC results per 8.5-hour shift.

<sup>1</sup> Data on file

<sup>2</sup> Product Insert

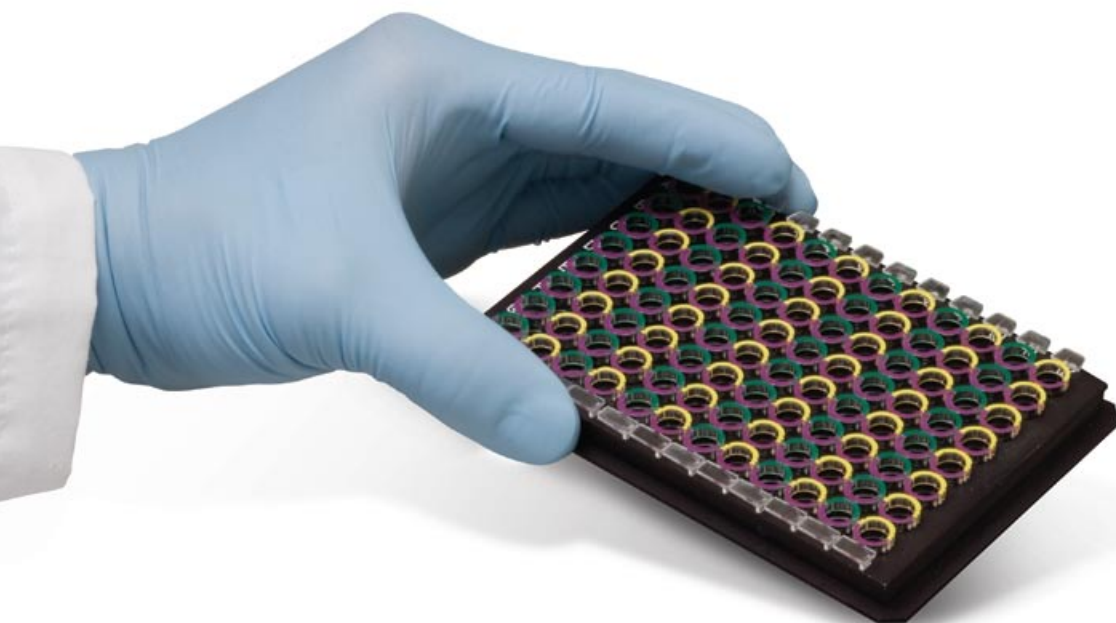
<sup>3</sup> Source: Bureau of Labor Statistics

\* Product under development, not available for sale or use.

# Outpace your workload by streamlining your workflow

## Less hands-on time

- Deliver up to 736 results per 8.5-hour shift with less than one full-time employee
- Less than 20 minutes of total hands-on time per run
- On-board sample DNA extraction reduces manual processing steps
- Automated sample processing, ready-to-use reagents, and patient sample identification reduce labor and errors, while improving ergonomics
- Breakable swabs mean swab heads can be left in the sample tube during processing
- Worry-free operation: Automatic system checks ensure the system is running smoothly prior to and during each run





**BD FOX™ Extractor Module:**

Holds 96 single-dose BD FOX extraction tubes and permanent magnet assembly for on-board DNA extraction.

**Pipettor Head:**

For consumable check, fluid volume transfer, and microwell plate sealing.

**Amplification/Detection Staging Station:**

Up to two amplification microwell plates can be incubated for real-time amplification and detection.

**Sample Processing Station:**

Up to 96 specimens, including controls, can be loaded for walk-away capability.

**Priming Station:**

Two heaters incubate up to two priming microwell plates for hybridization of primers.



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Complete confidence with total  
system integrity

The BD Viper™ System with XTR™ Technology is backed by our Total System Integrity—integrity in our instrumentation, reagents and customer service.

## What Total System Integrity means to you

### **ASSAY INTEGRITY:**

Strand Displacement Amplification (SDA) technology offers proven specificity and contamination control.

### **RESULTS INTEGRITY:**

Excellent sensitivity and specificity proven in published clinical studies and independent proficiency surveys.

### **SYSTEM INTEGRITY:**

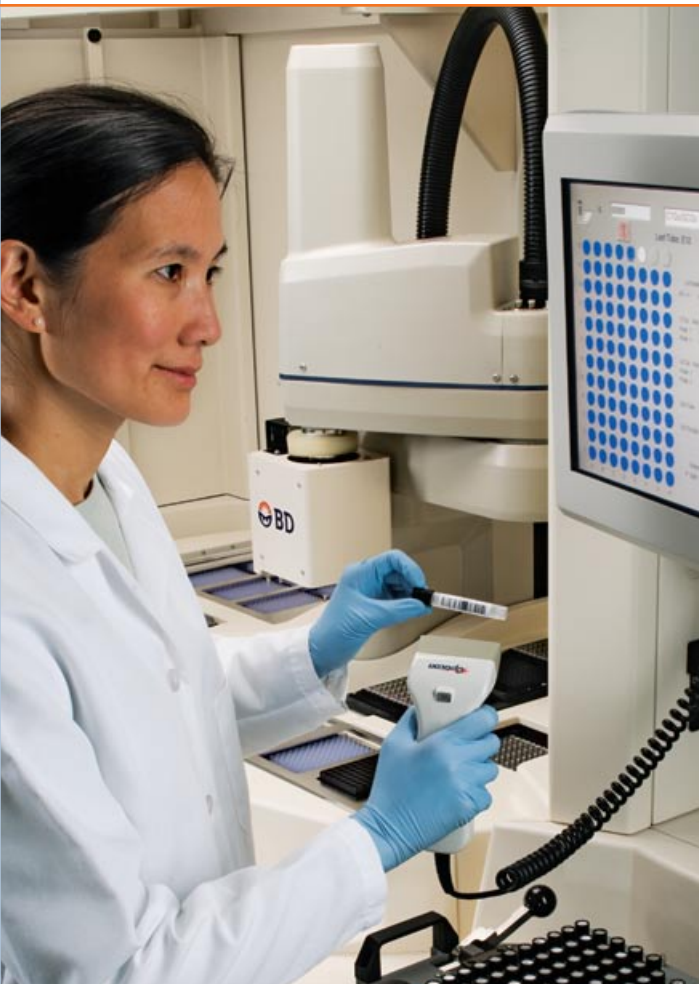
Unique “Reliability by Design” delivers maximum uptime.

### **OPERATIONAL INTEGRITY:**

Automatic system checks ensure the system is running smoothly prior to and during each run.

### **BD INTEGRITY:**

Around-the-clock customer service and support to ensure customer success.



## Put CT/GC Screening on the Fast Track to Success

Work with BD—from start to finish

- We help you plan, integrate and implement CT/GC testing in your lab
- We work with you to analyze and map your lab's workflow efficiency to maximize productivity and instrument uptime
- We help to ensure that you are stocked with the reagents and supplies you need—when and where you need them
- We offer comprehensive product training for your technicians at our state-of-the-art education center

### Experience the BD Viper™ System with XTR™ Technology

Let us show you how the BD Viper System can put your lab on the fast track to CT/GC testing success. We'll give you an in-person presentation that will demonstrate how you can improve CT/GC testing, cost efficiency and productivity while maintaining quality.

For more information please visit [www.bd.com/ds/Viper](http://www.bd.com/ds/Viper), or to schedule an in-person presentation, call us at:

Tel: 800-638-8663 in U.S.

Tel: +44 (0)1865 781572 in UK



Other molecular assays available from BD:

- |  |  |
|--|--|
| <i>Mycoplasma pneumoniae</i> <sup>4</sup>      | HSV1/HSV2 <sup>*</sup>   |
| <i>Chlamydomphila pneumoniae</i> <sup>4</sup>  | HPV <sup>*</sup>   |
| <i>Legionella pneumophila</i> <sup>4</sup>     | Methicillin-resistant <i>Staphylococcus aureus</i> (MRSA) <sup>6</sup> |
| <i>Mycobacterium tuberculosis</i> <sup>4</sup> | Methicillin-sensitive <i>Staphylococcus aureus</i> <sup>6</sup>        |
| <i>Gardnerella vaginalis</i> <sup>5</sup>      | <i>Clostridium difficile</i> <sup>6</sup>                              |
| <i>Candida</i> sp. <sup>5</sup>                | vancomycin-resistant enterococci (VRE) <sup>7</sup>                    |
| <i>Trichomonas vaginalis</i> <sup>5</sup>      |  |



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<sup>4</sup> BD ProbeTec™ ET System outside US only

<sup>5</sup> BD Affirm™ VPIII

<sup>6</sup> BD GeneOhm™ MRSA, StaphSR, and Cdiff Assays

<sup>7</sup> BD GeneOhm™ VanR Assay outside U.S. only; Currently under review by U.S. FDA

<sup>\*</sup> Product under development, not available for sale or use.