



**Xpert®**  
*C. difficile*

Rapid and Accurate. *It's About Time.*

 **Xpert® C. difficile**

Detection of *Clostridium difficile*  
*In Just Over 30 Minutes\**

\* For Positive Results

 **Cepheid®**  
A better way.



*The alarming rise in the incidence of Clostridium difficile infection (CDI) highlights the need for rapid and accurate diagnostic solutions. Today's testing methodologies have forced clinicians to choose between solutions that deliver either speed or accuracy.*

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## The Need

**The alarming rise in the incidence of *Clostridium difficile* infection (CDI) highlights the need for rapid and accurate diagnostic solutions:**

- Sensitivity of current available rapid diagnostic tests are unacceptably low<sup>1</sup>
- Additional length of stay increase caused by *C. difficile* infection is 5.6 days<sup>1</sup>
- Incremental costs due to *C. difficile* infection can be as high as \$7,179<sup>1</sup> per patient
- Testing of all suspected CDI cases directly with PCR is cost effective.<sup>2</sup>

## The Solution

**Today's testing methodologies have forced clinicians to choose between solutions that deliver either speed or accuracy. Cepheid's Xpert *C. difficile* delivers both in just over 30 minutes:**

- Superior test accuracy eliminates the need for additional or repeat testing
- Testing of all suspected CDI cases directly with PCR is cost effective.<sup>2</sup>
- Rapid identification of infected patient helps infection control efforts
- Timely reporting enables clinicians to administer appropriate therapy thereby improving patient management

**Cepheid's Xpert *C. difficile* test provides on-demand results you can trust and empowers your clinical team to better manage patients.**

# Performance

Performance characteristics of Xpert® *C. difficile* were determined in a prospective investigation study by comparing Xpert *C. difficile* on the GeneXpert® System with broth enriched toxigenic culture.

## PERFORMANCE CHARACTERISTICS OF XPERT *C. DIFFICILE* AS COMPARED TO TOXIGENIC CULTURE

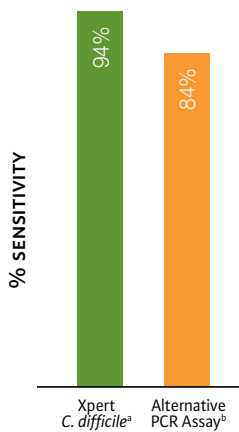
		Toxigenic Culture	
		<i>C. difficile</i> POS	NEGATIVE
Xpert <i>C. difficile</i>	Toxin B+	316	117
	NEGATIVE	22	1841

SENSITIVITY: **93.5%**  
SPECIFICITY: **94.0%**

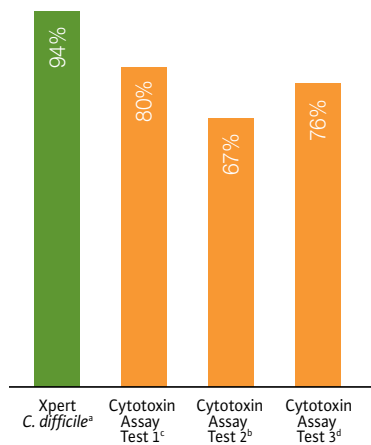
# Accuracy

Management of CDI requires rapid and accurate diagnosis. Cepheid's Xpert *C. difficile* delivers both while enabling clinicians to optimize patient management and reduce length of stay.

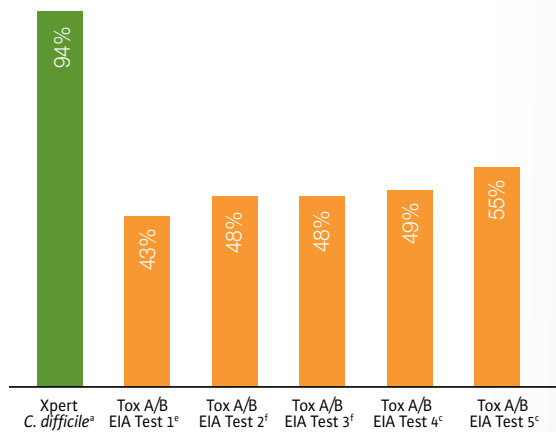
Performance Comparisons\*:  
PCR



Performance Comparisons\*:  
Xpert *C. difficile* to Cytotoxin Assays



Performance Comparisons\*:  
Xpert *C. difficile* to EIA



a. Xpert *C. difficile* Clinical Trial Data; b. Stamper, et al. JCM 2009; c. Alcalá, et al. JCM 2008; d. Barbut, et al. JCM 2009; e. Gilligan, et al. JCM 2008; f. Sloan, et al. JCM 2008

\* Test performance assessments based on independent peer reviewed publication. Performance assessments do not represent "head" to "head" comparisons.

# Rapid and Accurate. Xpert® *C. difficile*

- Fully automated process reduces handling time to just minutes
- Random access for flexibility and workflow optimization
- Fully integrated reagent and instrument system for accuracy and reproducibility

## WORKFLOW:

### 3 Easy Steps

Total hands-on time: <1 Minute

1

Insert swab into Elution reagent vial and break at score



2

Vortex and dispense Sample into Port 5



3

Insert cartridge and start assay.



## ORDERING INFORMATION

Xpert *C. difficile* kit (10 Cartridges with reagents) ..... Catalog No. GXCDIFFICILE-10  
Xpert *C. difficile* kit (120 Cartridges with reagents) ..... Catalog No. GXCDIFFICILE-120

## References:

1. Sloan et al., JCM 2008
2. Larson et al., JCM 2010
3. National Prevalence Study of Clostridium difficile in U.S. Healthcare Facilities, Nov 2008. www.apic.org



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