

# BD GeneOhm™ CDiff

Rapid, molecular detection of toxigenic *Clostridium difficile*



Helping all people  
live healthy lives

## Setting the new standard

More sensitive than cytotoxicity with the speed of an EIA

*Clostridium difficile* infection (CDI) increased length of stay by nearly 3 fold and mortality in the hospital by approximately 4.5 fold.<sup>1</sup> Rates of CDI tripled in US hospitals between 2000 and 2005<sup>2</sup> with attributable costs of approximately \$1 billion.<sup>3</sup>

Current diagnostic tests lack a single assay that is sensitive, specific, and rapid.<sup>4</sup>

- Cytotoxicity assays have long turn around times and are labor intense.
- Enzyme immunoassay (EIA) has low sensitivity, leading to duplicate testing and empiric treatment.<sup>4</sup>

Toxin B gene PCR represents a more sensitive and potentially cost-effective method to diagnose *C. difficile* - associated diarrhea than EIA and should be considered for use as an alternative diagnostic standard.<sup>4</sup>

1 Elixhauser and Jhung, AHRQ Statistical Brief #50 April 2008

2 McDonald LC, et al. Emerg Infect Dis. 2006;12(3):409-15 and unpublished CDC data, adapted from C. McDonald Webinar, March 20, 2007

3 Dubberke ER, et al. Clin Infect Dis 2008;46:497-504

4 Morelli et al., Clin Gastroenterol Epatol 2004;2:669-674

The BD GeneOhm™ line of products help improve patient outcomes by delivering cost-effective, rapid, molecular solutions for the detection and prevention of Healthcare Associated Infections (HAI).

## BD GeneOhm™ Cdiff

Rapid, molecular detection of toxigenic *Clostridium difficile*

The answer you need today from a single test result!

### Assay Performance

Sensitivity	94%
Specificity	95%

\* BD GeneOhm Cdiff package insert, assay performance compared to cytotoxicity. After discrepant analysis, positive agreement was 95% and negative agreement was 98%.

### Assay Features

- Performance comparable to the "gold standard" cytotoxicity assay
- Real-time PCR results in <2 hours for toxigenic *C. difficile*
- Specific detection of the tcdB gene found only in toxigenic *C. difficile*<sup>5</sup>
- One single method that can replace current *C. difficile* testing

### Clinical Advantages

- Rapid, sensitive and specific results for patients suspected of having *C. difficile* infection (CDI)
- Earlier accurate diagnosis enables appropriate treatment of infected patients and can help avoid empiric treatment and unnecessary exposure to antibiotics in negative patients<sup>6</sup>
- Facilitates targeted infection control practices to prevent transmission and infection

The BD GeneOhm™ Cdiff assay is the first real-time PCR test to detect toxigenic *C. difficile* directly from stool. Rapid, real-time PCR can enable the prompt detection of toxigenic *C. difficile* in patients suspected of CDI, allowing more rapid, appropriate treatment and containment to prevent the spread of *Clostridium difficile*.<sup>7</sup>

<sup>5</sup> Cohen et al., Journal of Infectious Disease 2000; 181:659-63

<sup>6</sup> Morelli et al., Clinical Gastroenterology and Hepatology 2004;2:669-674

<sup>7</sup> Fuller et al., ECCMID 2008 poster number 1756



Belgium:  
**BD Diagnostics**  
Erembodegem-Dorp 86  
9230 Erembodegem  
Tel : (+32) 53 720 211

U.K.:  
**BD Diagnostics**  
The Danby Building  
Edmund Halley Road  
Oxford Science Park  
Oxford OX4 4DQ  
Tel : (+44) 1865 78 16 66

Germany:  
**BD Diagnostics**  
Tullastr. 8-12  
69126 Heidelberg  
Tel. (+49) 6221 3050

France:  
**BD Diagnostics**  
11 rue Aristide Bergès  
38800 Le Pont de Claix  
Tel : (+33) 476 68 36 36