

***Clostridium Difficile TcdA Gene And TcdB Gene* Nucleic Acid Test Kit** **Fluorescent Probe-Based Real-Time PCR Assay**

Clostridium difficile is a kind of obligate anaerobic bacteria of the Clostridium genus. It is very sensitive to oxygen and is difficult to isolate and cultured. It is generally parasitic in the human intestinal tract. *C. difficile* mainly causes pseudomembranous enteritis, antibiotic-associated, diarrhea, pyelonephritis, meningitis, abdominal and vaginal infections, bacteremia, and gas gangrene.

The different toxin profiles of *C. difficile* are closely linked to the clinical manifestations of the infection. For instance, *C. difficile* strains that produce the tcdB toxin are typically associated with more severe conditions, such as colitis and pseudomembranous colitis. In contrast, those producing only tcdA may result in milder symptoms.



Testing Principle

This kit uses polymerase chain reaction (PCR) technology based on TaqMan fluorescent probe to detect tcdA gene and tcdB gene of *Clostridium difficile* from feces and anal swab specimens collected from patients or suspected patients with *Clostridium difficile* infection.



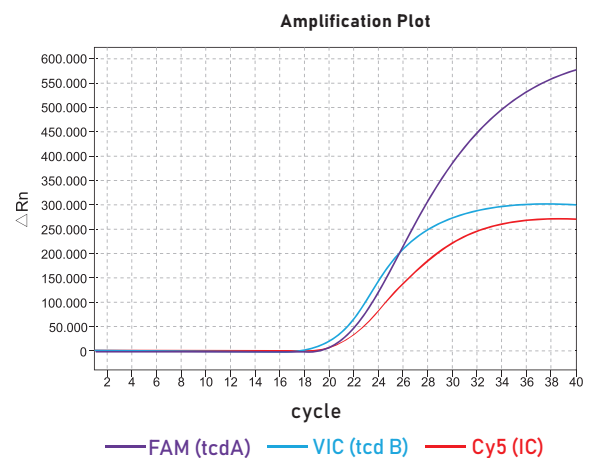
Accurate PCR Detection of *tcdA* and *tcdB* in *C. difficile* is significant.

- Fast and efficient, overcoming cultivation challenges.
- Assessing virulence to optimize clinical treatment.
- Precise detection of low concentrations toxin genes for early diagnosis.
- Rapid screening of high-virulence strains for infection control.

Recommended Thermal Cyclers

- Applied Biosystems™7500 Real-Time PCR System
- Stratagene MX 3000P Real-Time PCR System
- BioRad CFX96 Real-Time PCR System
- Other Real-Time Thermal Cyclers which could detect FAM, VIC/HEX and CY5 simultaneously

Sample Results



Ordering Information

Cat No.	Product Name	Format	Shelf Life	Kit Size	Certification
B281T010B0C0	<i>Clostridium Difficile</i> Nucleic Acid Test Kit	Liquid	12 Months	10 Tests/Box	CE
B281T025B0C0		Liquid	12 Months	25 Tests/Box	CE
B281T050B0C0		Liquid	12 Months	50 Tests/Box	CE
B28201T2048	<i>Clostridium Difficile TcdA Gene And TcdB Gene</i> Nucleic Acid Test Kit	Lyophilized	24 Months	48 Tests/Box	CE

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