



TRUPCR® Clostridium difficile Detection Kit

NEED

Clostridium difficile is one of the most common causes of healthcare-associated diarrhea (HCAD). It is by far the most common infectious cause of HCAD, accounts for 25% cases. Highly virulent (hypervirulent) Clostridium difficile strains have caused outbreaks of severe disease worldwide. HCAD can cause substantial morbidity, including organ dysfunction, nondiarrheal nosocomial infections, increased length of stay, reduced quality of life, and even death. C. difficile infection is the major identifiable cause of antibiotic-associated diarrhea and is responsible for 15–25 percent of all cases, with a marked increase in the incidence of CDI since the last few years.

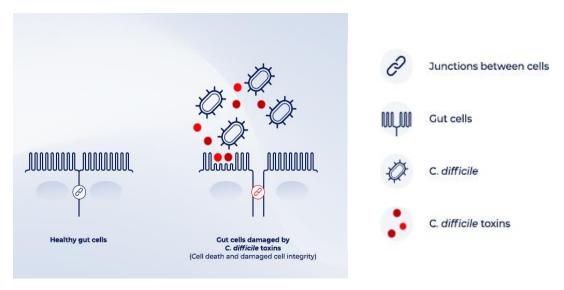


Image Source: https://www.saccharomycesboulardii.com/therapeutic-area/clostridium-difficile-infection/

SOLUTION BY TRUPCR®

TRUPCR® Clostridium difficile Detection Kit is a Real-Time amplification test for the qualitative detection of Clostridium difficile including hyper virulent species from human clinical samples. The assay detects multiple toxins of Clostridium difficile including toxin A (TcdA), toxin B (TcdB) and binary toxins gene (cdtA and cdtB). The presence of the genes encoding toxin B and binary toxin have been associated with hypervirulent C. difficile strain. It includes two tube assay based on oligonucleotide hydrolysis principle which allows higher specificity and sensitivity. Thus TRUPCR® Clostridium difficile Detection Kit provides rapid detection of Clostridium difficile and hyper virulent Clostridium difficile at once.

TARGET PATHOGENS





3B BlackBio Biotech India Limited, 7-C, Industrial Area, Govindpura, Bhopal, MP 462023 (INDIA)





KEY FEATURES



Endogenous Internal Control incorporated within the kit to ensure reliable results



Complete workflow solution available from Extraction of sample to Post-PCR analysis



Platform agnostic as compatible with various platforms



Rapid and reliable results within 90-100 minutes after PCR Start

TECHNICAL SPECIFICATIONS

- Sample Type Stool Specimen
- Clinical Validation Validated on more than 300 clinical samples
- Target Regions TcdA, TcdB and Binary Toxin genes (cdtA and cdtB)
- Reaction Volume 25 μl in each tube
- LOD Data: 1000 CFU/ml
- Compatible Instruments Applied Biosystems[™] 7500 series, Applied Biosystems[™] QuantStudio[®] 5, Rotor-Gene Q, Bio-Rad
 CFX96

CLINICAL DATA

			Reference Method	
		Positive	Negative	Total
TRUPCR Method	Positive	62	1	63
	Negative	1	54	55
	Total	63	55	118

Parameters	Estimate
Sensitivity	98.41%
Specificity	98.18%
Positive Predictive Value	98.41%
Negative Predictive Value	98.18%





ORDERING INFORMATION

Cat. No.	Description	Size
3B375	TRUPCR [®] Clostridium difficile Detection Kit	48 Reactions
3B376	TRUPCR [®] Clostridium difficile Detection Kit	96 Reactions

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For more information, visit: www.3bblackbio.com or email: enquiry@3bblackbio.com