

Patient NAME : Dummy	Report STATUS : Final Report
DOB/Age/Gender :	Barcode NO :
Patient ID / UHID :	Sample Type : Stool
Referred BY :	Report Date :
Sample Collected :	

Clostridium Difficile, PCR

Test Name	Clostridium Difficile
Specimen	Stool
Results	Negative
Clostridium Difficile	Negative
Method	PCR

Interpretation :

Negative PCR results indicates absence of Clostridium difficile toxin A and B DNA in the given clinical specimen, whereas a positive PCR results indicates presence of Clostridium difficile Toxin A and/ or B DNA in given clinical specimen.

Clinical Significance and Utility:

- 1• Clostridium difficile-associated diarrhea is most commonly recognized as the cause of nosocomial illnesses including antibiotic-associated diarrhea, antibiotic-associated colitis and pseudomembranous colitis, the latter of which could result in toxic megacolon if not treated appropriately.
- 2• It is the primary cause of hospital-associated colitis in patients who receive antibiotics, chemotherapeutic agents, or other drugs that can alter the normal gastrointestinal flora. • It is acquired faeco-orally and multiplies in the colon.
- 3• The major virulence factors of C. difficile are an enterotoxin, toxin A (Tcd A) and a cytotoxin, toxin B (Tcd B). These toxins are encoded by the tcdA and tcdB genes.
- 4• Clostridium Difficile, by PCR is a qualitative detection of the genes encoding TcdA and / or TcdB.
- 5• IDSA/SHEA guidelines recommended testing of patients with presence of diarrhea, defined as passage of 3 or more unformed stools in 24 or fewer consecutive hours for toxigenic C. difficile testing (except in cases of ileus without diarrhea.)
- 6• Swabs specimens are not appropriate for C. difficile testing

Limitation of the Assay:

Presence of PCR inhibitors in the sample may prevent DNA amplification. Paradoxical results may arise due selection of inappropriate specimens and contamination during specimen collection.

Reference:

- 1• Persson et al., 2008, ESCMID, CMI, 14, 1057–1064
- 2• Surawicz et al., 2013, Am J Gastroenterol 108: 478498
- 3• Cohen et al., Infect Control Hosp Epidemiol 2010; 31(5):431455

NOTE- **This test is processed and validated at the partner lab of Redcliffe Labs.

*** End Of Report ***

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