

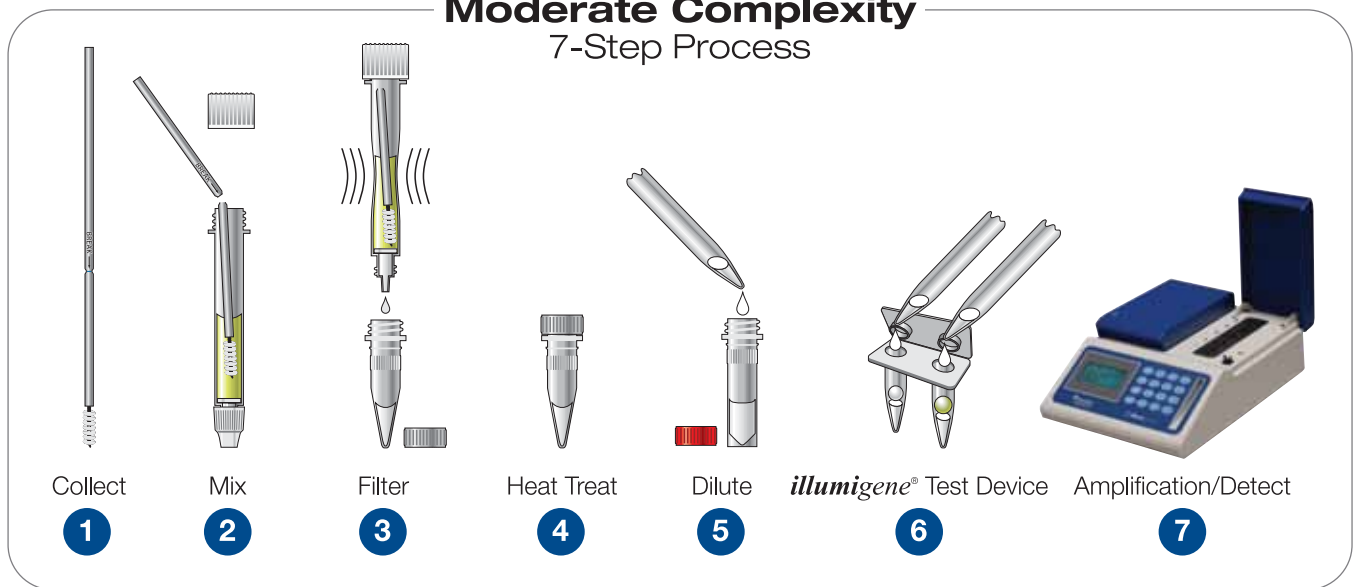
illumigene[®] *C. difficile* Assay

Moderately complex test in under an hour

**Empower your laboratory
with the speed and accuracy
of molecular testing**



Moderate Complexity 7-Step Process

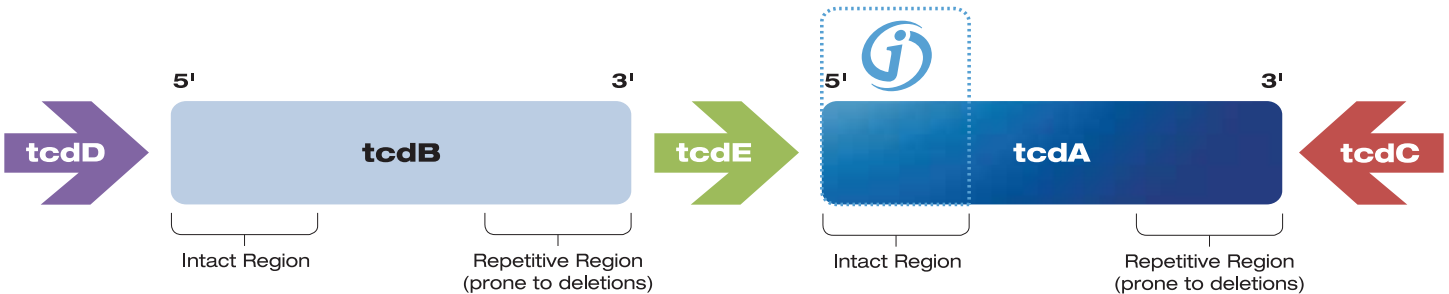


For Total Population

SENSITIVITY	95.2%
SPECIFICITY	95.3%
ACCEPTABLE TRANSPORT MEDIA	C&S

BACKGROUND

The *Clostridium difficile* Pathogenicity Locus (PaLoc) is a gene segment present in all known toxigenic *C. difficile* strains. The *C. difficile* PaLoc codes for both the Toxin A gene (*tcdA*) and the Toxin B gene (*tcdB*), has conserved border regions, and is found at the same site on the *C. difficile* genome for all toxigenic strains.¹



SCIENTIFICALLY SOUND TARGET

- *tcdA* region, utilized by **illumigene**[®], is intact and less prone to deletions
 - potential reduction in false negatives.¹
- *tcdB* region, which is used in current PCR platforms, is more prone to deletions
 - decreases sensitivity.¹

PROVEN PERFORMANCE

- **illumigene**[®] is the only platform proven to detect all main known variant forms of *C. difficile*.^{2,3}
- This includes emergence of A+B- toxigenic strains
 - *tcdA* is a key virulence factor in *C. difficile* disease⁴
 - A+B- strains, detected by **illumigene**[®], are potentially virulent and evolving^{4,5}
 - A Mayo Clinic study isolated 5 A+B- specimens in 200 samples which produced only toxin A⁶

Ordering information

illumigene [®] <i>C. difficile</i>	280050
illumigene [®] <i>C. difficile</i> External Control Kit.....	279920

 For more information, contact an **illumigene**[®] specialist at 1-888-763-6769 or visit us on the web at www.meridianbioscience.com.

REFERENCES

1. RUPNIK, MAJA FEMS Microbiology Review 32 (2008), PG 541-555
2. V. Zidaric, N. Oresic, M. Rupnik* "Loop-mediated isothermal amplification technique for routine detection of *Clostridium difficile*," ECIMD-ICC Abstract/Poster 2011.
3. Couturier, B. Ph.D. and She, R.C. M.D. "The **illumigene**[®] *C. diff* assay detects both A+B+ and A+B- toxin-producing strains of *Clostridium difficile*," AMP Abstract/Poster 2010.
4. SA Kuehne, et. al-Nature. 2010 Oct 7; 467(7316)711-3. Epub 2010 Sep 15.
5. Ian Wilson Applied and Environmental Microbiology, Oct. 2997, p 3741-3751.
6. Maja Rupnik, FEMS Microbiology Review 32 (2008), p. 541-555.