



**BD MAX™ Enteric Parasite Panel** Real-time PCR assay

# The need for rapid enteric parasite testing

Giardia lamblia, Cryptosporidium hominis, C. parvum and Entamoeba histolytica are considered to be important diarrhoea-causing parasites. Often associated with outbreaks, all of these organisms are transmitted via the fecal-oral route through the consumption of contaminated food or water.

Microscopic detection of these parasites is insensitive and requires substantial time, equipment **and training**. In addition, microscopy cannot distinguish *Entamoeba histolytica* from the nonpathogenic species Entamoeba dispar.<sup>1</sup> PCR testing is more sensitive than traditional methods and may be capable of earlier detection, which can reduce the need to test multiple stool samples and improve patient management and infection control.<sup>2</sup>

With the **BD MAX™** Enteric Parasite Panel you can obtain a first answer in approximately 3.5 hours for 24 specimens!

# Discover the assay

The **BD MAX™ Enteric Parasite Panel** is an automated assay including nucleic acid extraction and real-time polymerase chain reaction (PCR) for direct and qualitative detection and differentiation of • Giardia lamblia • Cryptosporidium hominis and C. parvum • Entamoeba histolytica.

This test also includes a sample processing control.

# Sample types

- Unpreserved stool
- 10% formalin-fixed stool
- FecalSwab™

#### Workflow and time to results



Results obtained in about 3.5 hours for 24 samples, helping to provide same-day decisions to support patient management and help reduce transmission risk



Less than 1.5 minutes of hands-on time in sample preparation



Compatibility to run alongside other BD MAX™ assays on

1 to 24 specimens simultaneously for greater flexibility

### Scientific evaluation

Read more about the **BD MAX™ Enteric Parasite Panel** from molecular studies and publications.



Madison- Antenucci et al, Multi-center evaluation of the BD MAX™ Enteric Parasite RT-PCR assay for the detection of Giardia duodenalis, Cryptosporidium hominis and C. parvum and Entamoeba histolytica., J Clin Microbiol. November 2016 Volume 54 Number 11.



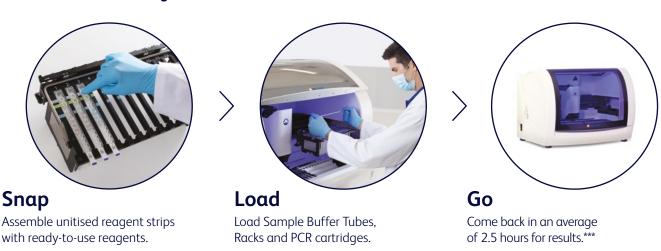
Perry et al, Evaluation of the BD MAX™ Enteric Parasite Panel for the detection of Cryptosporidium parvum/hominis, Giardia duodenalis and Entamoeba histolytica, , J Med Microbiol August 2017 Volume 66 Number 8.

### Ready-to-use reagents storable at room temperature

REF	Contents	Quantity
442960	BD MAX™ Enteric Parasite Master Mix (B5)  Dried PCR Master Mix containing polymerase, nucleotides and specific molecular probes and primers along with Sample Processing Control and PCR enzyme	24 tests (2 x 12 tubes)
	BD MAX™ Enteric Parasite Unitised Reagent Strip Unitised reagent strip containing wash buffer, elution buffer, and neutralisation buffer reagents, as well as disposable pipette tips necessary for sample processing and DNA extraction	24 strips
	BD MAX™ Enteric Parasite Extraction Tube (B2) Oven-dried pellet containing DNA magnetic affinity beads, protease reagents and Sample Processing Control	24 tests (2 x 12 tubes)
	BD MAX™ Enteric Parasite Sample Buffer Tube	24 tubes
	Septum Cap	25

# Rapid, targeted testing on the BD MAX™ System

The innovation of the BD MAX™ System offers you a **fully integrated**, **automated real-time PCR platform** with the possibility of running multiple assays simultaneously.\* Its automated workflow reduces manual tasks to achieve rapid, reliable results and facilitates off-hour testing, helping to offset molecular testing costs.\*\* 3,4



#### Discover our full assay portfolio and the BD MAX™ System



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BD MAX™ Enteric Parasite Panel [IFU 442960], Franklin Lakes, NJ: Becton, Dickinson and Company; 2021.

1. R. Fotedar, D. Stark, N. Beebe, D. Marriott, J. Ellis and J. Harkness, "Laboratory Diagnostic Techniques for Entamoeba Species", Clinical Microbiology Reviews, pp. 511–532, 2007. 2. J. A. Platt-Mills, D. J. Operario and E. R. Houpt, "Molecular Diagnosis of Diarrhea: Current Status and Future Potential," Current. 3. Mortensen JE, et al. Comparison of time-motion analysis of conventional stool culture and the BD MAX<sup>™</sup> Enteric Bacterial Panel (EBP). BMC Clin Pathol. 2015;15:9. 4. Hirvonen JJ, et al. Comparison of BD Max Cdiff and GenomEra C. difficile molecular assays for detection of toxigenic Clostridium difficile from stools in conventional sample containers and in FecalSwabs. Eur J Clin Microbiol Infect Dis. 2015;34(5):1005-1009.



<sup>\*</sup> BD assays are run & rack compatible – Only MDR-TB and GBS are not run and rack compatible / Vaginal Panel and open systems' assays are only run compatible.

<sup>\*\*</sup> When compared to culture or immunochromatographic antigen (IA).

<sup>\*\*\*</sup> Time is assay dependent. 4 hours for full results on MDR-TB assay.