



## 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	<b>BD MAX™ Enteric Parasite Master Mix (B5)</b> 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)
	<b>BD MAX™ Enteric Parasite Unitised Reagent Strip</b> 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
	<b>BD MAX™ Enteric Parasite Extraction Tube (B2)</b> Oven-dried pellet containing DNA magnetic affinity beads, protease reagents and Sample Processing Control	24 tests (2 x 12 tubes)
	<b>BD MAX™ Enteric Parasite Sample Buffer Tube</b>	24 tubes
	<b>Septum Cap</b>	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



### Snap

Assemble unitised reagent strips with ready-to-use reagents.



### Load

Load Sample Buffer Tubes, Racks and PCR cartridges.



### Go

Come back in an average of 2.5 hours for results.\*\*\*

Discover our full assay portfolio and the BD MAX™ System



[advancing-diagnostics.eu](http://advancing-diagnostics.eu)



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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™ 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.

\* 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.

\*\* When compared to culture or immunochromatographic antigen (IA).

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

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