



BD MAX™ Enteric Bacterial & Extended Enteric Bacterial Panels

Real-time PCR assays

The need for rapid enteric bacteria testing

Although the most common **gram-negative enteric bacterial agents are easily cultivated**, isolation and identification are time consuming. **Diagnosis may take several days**, which places patients at risk for an untreated infection as well as the spread of the infection to others.

Empirical antimicrobial therapy may also have severe consequences for some enteric bacterial infections, such as those caused by Shiga toxin-producing *Escherichia coli* (STEC) potentially leading to fatal complications including hemolytic uremic syndrome in children.¹ In people with compromised immune systems, *Campylobacter* and *Salmonella* infections occasionally spread to the bloodstream and can cause a serious life-threatening infection.^{2,3}

With the **BD MAX™ Enteric Bacterial & Extended Bacterial Panels** you can obtain **results in approximately 3 hours** for 24 specimens!

Discover the assay

The **BD MAX™ Enteric Bacterial Panel** is an automated assay including nucleic acid extraction and real-time polymerase chain reaction (PCR) for direct and qualitative detection and differentiation of ***Campylobacter spp (jejuni and coli)*, *Salmonella spp*, *Shigella spp/Enteroinvasive Escherichia coli (EIEC)* and Shiga toxin stx1/stx2 genes**, found in Shiga toxin-producing *Escherichia coli* (STEC) and *Shigella dysenteriae*.

The **BD MAX™ Extended Enteric Bacterial Panel** is an **optional Master Mix for the BD MAX™ Enteric Bacterial Panel** detecting and differentiating ***Yersinia enterocolitica*, *Plesiomonas shigelloides*, *Vibrio spp (vulnificus, parahaemolyticus, cholerae)*, *Enterotoxigenic E.coli (ETEC)*** – pathogens seasonally and regionally impacting in bacterial gastroenteritis.

These tests also include a sample processing control.

Sample types

- Unpreserved soft to diarrhoeal stool
- Cary-Blair preserved stool
- FecalSwab™

Workflow and time to results



Results obtained in about **3 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 Bacterial & Extended Enteric Bacterial Panels** from molecular studies and publications.

-  *Simner et al., Multisite Evaluation of the BD Max Extended Enteric Bacterial Panel for Detection of Yersinia enterocolitica, Enterotoxigenic Escherichia coli, Vibrio, and Plesiomonas shigelloides from Stool Specimens., J Clin Microbiol. 2017 Nov;55(11):3258-3266.*
-  *Harrington et al., Multi-center evaluation of the BD MAX™ Enteric Bacterial Panel PCR assay for the rapid detection of Salmonella spp., Shigella spp., Campylobacter spp. (C. jejuni and C. coli), and Shiga toxin 1 and 2 genes, J Clin Microbiol. May 2015 Volume 53 Number 5.*
-  *Mortensen et al., Comparison of time-motion analysis of conventional stool culture and the BD MAX™ Enteric Bacterial Panel (EBP), BMC Clinical Pathology (2015) 15:9.*

Ready-to-use reagents storable at room temperature

REF	Contents	Quantity
442963	BD MAX™ Enteric Bacterial Panel Master Mix (B5) Oven-dried PCR Master Mix containing nucleotides and specific molecular probes and primers along with Sample Processing Control and PCR enzyme	24 tests (2 x 12 tubes)
	BD MAX™ Enteric Bacterial Panel 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 Bacterial Panel Extraction Tube (B2) Oven-dried pellet containing DNA magnetic affinity beads, Proteinase K and Sample Processing Control	24 tests (2 x 12 tubes)
	BD MAX™ Enteric Bacterial Panel Sample Buffer Tube	24 tubes
	Septum Cap	25
443812	BD MAX™ Extended Enteric Bacterial Panel Master Mix (D8) Dried PCR Master Mix containing nucleotides, Target - Sample Processing Control molecular probes and primers, and PCR enzyme	24 tests (2 x 12 tubes)

BD MAX™ System

Fully integrated, automated real-time PCR platform to reduce manual tasks and with the possibility of running multiple assays simultaneously.*



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



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BD MAX™ Enteric Bacterial Panel [IFU 442963], Franklin Lakes, NJ: Becton, Dickinson and Company; 2021.

BD MAX™ Extended Enteric Bacterial Panel [IFU 443812], Franklin Lakes, NJ: Becton, Dickinson and Company; 2021.

1. Wong, CS, Jelacic S, Habeeb RL, Watkins SL, and PI Tarr. 2000. The risk of the hemolytic-uremic syndrome after antibiotic treatment of Escherichia coli O157:H7 infections. N. Engl. J. Med. 342:1930–1936. 2. CDC: Campylobacter General Information. Located at: <https://www.cdc.gov/campylobacter/> 3. CDC: What is Salmonellosis? Located at: <http://www.cdc.gov/salmonella/general/index.html>

* 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.

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

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