

# Panther Fusion® GI Bacterial Assays

Flexible testing with sensitive gastrointestinal (GI) pathogen detection.<sup>1,2</sup>

**Accuracy and flexibility for the patient and the lab.** With highly sensitive and reliable results delivered in a mini-panel format, the Panther Fusion GI Bacterial and Expanded Bacterial assays support informed clinical decision-making while seamlessly integrating into existing laboratory workflows.<sup>1,2</sup>



## A new approach to gastrointestinal (GI) testing



Multiplex PCR testing transformed the diagnosis of enteric disease with rapid, accurate results.<sup>3</sup> But not all tests are created equal.



Panther Fusion GI Bacterial assays deliver the speed and sensitivity to diagnose enteric disease rapidly with the ability to tailor clinically relevant testing for your patients.

## More than instinct



Estimate suggest that nearly **2.1 M people** seek medical care for acute gastrointestinal illness each year in Canada.<sup>4,5</sup>



Accurate diagnostics is critical in guiding treatment decisions.



Trust more than just instinct with Panther Fusion GI assays deliver results that matter to you and your patients.<sup>1,2</sup>

## Assays targets

Bacterial <sup>1</sup>	Expanded Bacterial <sup>2</sup>
✓ <i>Salmonella</i> spp.	✓ <i>Plesiomonas shigelloides</i>
✓ <i>Campylobacter</i> spp.	✓ <i>E. coli</i> O157
✓ <i>Shigella</i> spp./EIEC	✓ <i>Vibrio</i> spp.
✓ Shiga toxin STEC	✓ <i>Yersinia enterocolitica</i>

## Reimagine gastrointestinal (GI) syndromic testing

Laboratories are increasingly pressed from both sides: deliver more results, faster, while contending with shrinking resources, staff shortages, and complex reimbursement landscapes.<sup>6</sup>

*Navigating this increasingly challenging environment requires new tools that are intentionally designed for adaptability and resilience.*



### Clinical

Gastrointestinal molecular assays support and enhance antimicrobial and diagnostic Stewardship with flexible rapid testing that identifies the most common enteric pathogens.<sup>7</sup>



### Operational

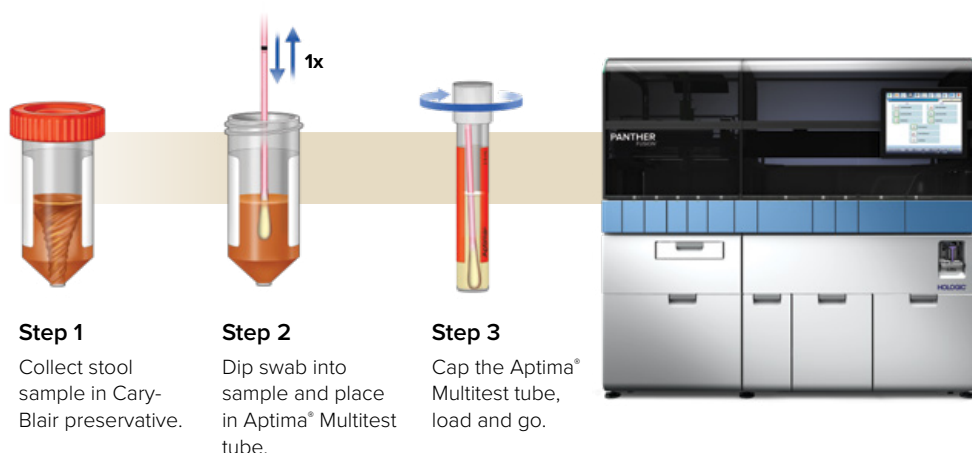
Reduce strain on laboratory resources and staff by testing only what's clinically necessary — simplify workflow using full walk away automation.



### Relevant

Align testing with clinical indications and tailor results to patients' history.<sup>1,2</sup>

### Simplified workflow on a fully automated platform<sup>8</sup>



### Pathogens detected by Panther Fusion GI Bacterial assays<sup>1,2</sup>

- ✓ *Salmonella enterica*
- ✓ *Salmonella bongori*
- ✓ *Campylobacter coli*
- ✓ *Campylobacter jejuni*
- ✓ *Shigella sonnei*
- ✓ *Shigella flexneri*
- ✓ *Shigella boydii*
- ✓ *Shigella dysenteriae*
- ✓ *STEC (stx1/stx2)*
- ✓ *Plesiomonas shigelloides*
- ✓ *E. coli* O157
- ✓ *Vibrio cholerae*
- ✓ *Vibrio parahaemolyticus*
- ✓ *Vibrio vulnificus*
- ✓ *Yersinia enterocolitica*

Simple pre-analytical processing with Aptima® Multitest tubes lets you run just one GI panel at a time or all at once without adding extra steps.

#### Unleash the power of the Panther® System.

Leverage on high performing assays across a comprehensive infectious disease menu.

#### Random and continuous access.

No more batching; load samples with different test orders as they arrive. Run multiple assays simultaneously.

#### Rapid turnaround time and flexible testing.

Automation speeds up processing and lets you prioritise without delay.

**References:** 1. Panther Fusion Bacterial assay [package insert]. AW-34920-001 Rev 001. San Diego, CA: Hologic, Inc.; 2025. 2. Panther Fusion Expanded Bacterial assay [package insert]. AW-34806-001 Rev 001. San Diego, CA: Hologic, Inc.; 2025. 3. Zhang H, Morrison S, Tang YW. Multiplex polymerase chain reaction tests for detection of pathogens associated with gastroenteritis. Clin Lab Med. 2015 Jun;35(2):461-86. 4. Thomas MK, Murray R, Nesbitt A, Pollari F. The Incidence of Acute Gastrointestinal Illness in Canada, Foodbook Survey 2014-2015. Can J Infect Dis Med Microbiol. 2017;2017:5956148. doi: 10.1155/2017/5956148. Epub 2017 Dec 19. PMID: 29410684; PMCID: PMC5749300. 5. Slower population growth continues during the second quarter of 2025. Statistics Canada. September 24th, 2025. Accessed November 24th, 2025. <https://www150.statcan.gc.ca/n1/daily-quotidien/250924/dq250924a-eng.htm>. 6. Leber AL, Peterson E, Dien Bard J; Personnel Standards and Workforce Subcommittee, American Society for Microbiology. The Hidden Crisis in the Times of COVID-19: Critical Shortages of Medical Laboratory Professionals in Clinical Microbiology. J Clin Microbiol. 2022 Aug 17;60(8):e0024122. 7. Dumkowiak LE, Worden LJ, Rao SN. Syndromic diagnostic testing: a new way to approach patient care in the treatment of infectious diseases. J Antimicrob Chemother. 2021 Sep 23;76(Suppl 3):iii4-iii11. 8. Panther®/Panther Fusion® System Operator's Manual AW-30520-001 Rev. 001.

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