Xpert® GI Panel

Detection and identification of DNA and RNA from multiple bacteria, parasites, and/or virus in approximately 74 minutes



The Need

- **Burden** – Acute gastroenteritis remains a leading cause of morbidity, mortality, and healthcare visits[1]
- **Clinical Presentation** – bacterial, viral, and parasitic pathogens may cause similar symptoms leading to difficulty distinguishing between infectious etiologies based on the clinical presentation alone[1]
- **Diagnosis** – Conventional methods for the identification of gastrointestinal pathogens are time-consuming, expensive, and have limited sensitivity[2]

The Solution

- **Rapid and accurate detection** of GI pathogens is important so that appropriate therapy can be initiated and proper infection control and epidemiologic measures can be taken to help reduce or prevent the spread of disease[1]
- **Standardized, streamlined workflow**: The Xpert GI Panel is clinically tailored to identify common pathogens causing suspected gastrointestinal infection[3,4] with quick actionable, accurate results within approximately 74 minutes

The Impact

Clinical Utility

- Fast and accurate identification of causative GI pathogens enables clinicians to **avoid unnecessary testing** and medical procedures while **enabling appropriate interventions** earlier[2,5]

Diagnostic Stewardship

- Targeted, mid-plex panels **capture meaningful proportions of clinically relevant targets** while reducing over- or co-detection of pathogens with limited clinical relevance[6]

1 Binnicker MJ.2015. Multiplex Molecular Panels for Diagnosis of Gastrointestinal Infection: Performance, Result Interpretation, and Cost-Effectiveness. J Clin Microbiol53:. https://doi.org/10.1128/jcm.02103-15

2 Beal SG, Tremblay EE, Toffel S, Velez L, Rand KH2018. A Gastrointestinal PCR Panel Improves Clinical Management and Lowers Health Care Costs. J Clin Microbiol56:10.1128/jcm.01457-17. https://doi.org/10.1128/jcm.01457-17

3 Shane AL et al. 2017 Infectious Diseases Society of America Clinical Practice Guidelines for the Diagnosis and Management of Infectious Diarrhea. Clin Infect Dis 2017

4 CDC Yellow Book 2024 | Travelers' Health | CDC Travelers' Diarrhea, https://www.cdc.gov/yellow-book/hcp/preparing-international-travelers/travelers-diarrhea.html

5 Moon RC, et al. 2023. Relationship between Diagnostic Method and Pathogen Detection, Healthcare Resource Use, and Cost in U.S. Adult Outpatients Treated for Acute Infectious Gastroenteritis. J Clin Microbiol.

6 Chase et al., 2025. Comparison of Target Detection Rates of Multiplex Gastrointestinal PCR Panels: A Systematic Literature Review and Meta-analysis. ID week abstract

Xpert® GI Panel

Product Reference Sheet — US-IVD

Test Reagent Kit	Xpert GI Panel
Catalog Number	GXGI-10
Technology	Qualitative real-time PCR
Targets	11
Batch or On-Demand	On-demand
Sample Type	Stool in Cary Blair transport media
Sample Extraction	Automated/Integrated
Precision Pipetting	Not required
Time to Result	Approximately 74 minutes
Control: Process	Sample Processing Control (SPC), Internal Control (IC), Probe Check Control (PCC)
Sample Stability	2–8 °C for 4 days Room temperature 15–25 °C for 24 hours
Kit Storage	2–28 °C
Hardware Required	10C Enabled Modules
Software Required	GeneXpert® Dx 6.4 or higher, GeneXpert Xpertise 7.1 or higher, Cepheid OS 2.1 or higher

Performance

	Prospective PPA	Prospective NPA	Contrived PPA	Contrived NPA
BACTERIA				
Campylobacter	93.9%	99.1%	-	-
Shiga toxin-producing *Escherichia coli* (STEC) *stx1*	100%	100%	100%	100%
Shiga toxin-producing *Escherichia coli* (STEC) *stx2*	100%	99.9%	100%	100%
Salmonella	90.7%	99.9%	-	-
Shigella/Enteroinvasive *Escherichia coli (EIEC)*	91.9%	99.7%	100%	100%
Yersinia enterocolitica	100%	98.3%	100%	100%
Vibrio parahaemolyticus	-	100%	96.9%	100%
Vibrio cholerae	0%	99.9%	100%	100%
PARASITE				
Giardia	95.2%	99.7%	100%	100%
Cryptosporidium	100%	99.9%	100%	100%
VIRUS				
Norovirus	97.9%	98.2%	-	-

For additional information reference Xpert GI Panel Package Inserts: 303-4454, 303-4456

US-IVD. *In Vitro* Diagnostic Medical Device.

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