

Gastrointestinal Infections Multiplex Real Time PCR Detection Kit

Fluorescent Probe-Based Real-Time PCR Assay

Diarrheal diseases remain a major public health challenge, with frequent outbreaks and high burden worldwide—causing 1.7 billion cases annually and ranking as the second leading cause of death in children under five. Current routine diagnostic methods often miss pathogens, while targeted next-generation sequencing (tNGS) can detect hundreds of pathogens but is time-consuming and costly. Therefore, there is an urgent need for a diagnostic solution that can accurately detect multiple pathogens with rapid turnaround and affordable cost.

This kit combines multiple advantages—comprehensive, rapid, reliable, and cost-effective, pioneering a new approach for gastrointestinal pathogen detection. Utilizing ultra-multiplex real-time PCR technology, it effectively reduces primer-probe interference, significantly improves detection sensitivity, and provides clinicians with a faster and more efficient diagnostic solution.

Test Principle

This kit is an in vitro diagnostic test that uses multiplex real-time PCR and is intended for the detection and identification of nucleic acids from 25 types of microbes directly from stool and anal swabs.



High sensitivity

Detection limit as low as 500 copies/mL.

Comprehensive coverage

25 common gastrointestinal pathogens

Ultra-fast workflow

Results in 2 hours, accelerating clinical decision-making.

Multi-Sample Compatibility

Stool, anal swabs, etc.

Target Pathogens

Viruses	Bacteria		
<i>Rotavirus group A/B</i>	<i>Enteroaggregative Escherichia coli (EAEC)</i>	<i>Clostridioides difficile (toxin A/toxin B)</i>	<i>Vibrio parahaemolyticus</i>
<i>Norovirus GI/GII</i>	<i>Enterotoxigenic Escherichia coli (ETEC)</i>	<i>Yersinia enterocolitica</i>	<i>Vibrio fluvialis</i>
<i>Sapovirus types I/II/III/IV/V</i>	<i>Enteropathogenic Escherichia coli (EPEC)</i>	<i>Cronobacter sakazakii</i>	<i>Vibrio cholerae</i>
<i>Enterovirus</i>	<i>Enteroinvasive Escherichia coli (EIEC)/Shigella</i>	<i>Salmonella</i>	
<i>Adenovirus group F types 40/41</i>	<i>Enterohemorrhagic Escherichia coli (EHEC)</i>	<i>Aeromonas hydrophila</i>	
<i>Astrovirus</i>	<i>Campylobacter (Campylobacter jejuni/Campylobacter coli/Campylobacter upsaliensis)</i>	<i>Plesiomonas shigelloides</i>	
Parasites			
<i>Cryptosporidium</i>	<i>Giardia lamblia / Giardia intestinalis</i>	<i>Entamoeba histolytica</i>	<i>Enterocytozoon bienersi</i>

► Widely applied across multiple departments for early diagnosis, timely reporting, and targeted treatment.

Gastroenterology Outpatient & Emergency

Preliminary screening of diarrheal causes

Pediatrics & Geriatrics

Pathogen screening for acute and chronic diarrhea

ICU, Proctology & Gastroenterology

Etiological screening for acute and chronic diarrhea

Hepatology, Nephrology & Endocrinology

Tracing diarrheal causes in patients with underlying diseases

Oncology & Hematology

Investigation of tumor- or therapy-related causes

Infectious Diseases

Etiological screening and outbreak tracing

Ordering Information

Cat No.	Product Name	Format	Sample Types	Shelf Life	Storage	Kit Size	Certification
B806T024B0C2	Gastrointestinal Infections Multiplex Real Time PCR Detection Kit	Liquid	Stool and anal swabs	12 months	-20±5°C	24 Tests/Kit	CE

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