

Gastrointestinal Infections Multiplex Real-Time PCR Detection Kit

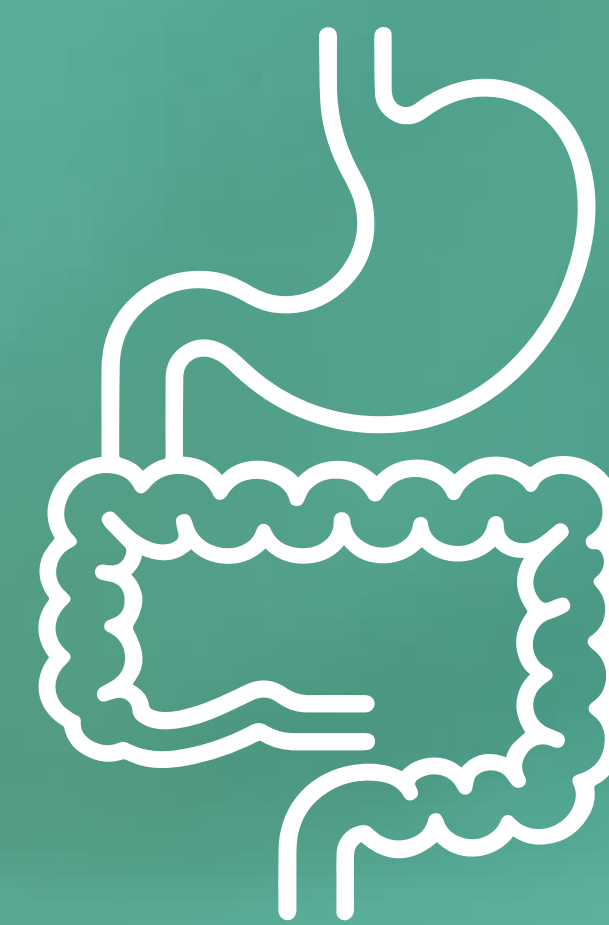
Fluorescent Probe-Based Real-Time PCR Assay

Diarrheal diseases remain a major public health challenge, with frequent outbreaks and a high global 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 time and an 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 reagent 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.



Product Features

Multi-Sample Compatibility

Stool, anal swabs, etc.

Comprehensive Coverage

25 common gastrointestinal pathogens

High Sensitivity

Detection limit as low as 500 copies/mL.

Ultra-Fast Workflow

Results in 2 hours, accelerating clinical decision-making.

Target Pathogens

	FAM	HEX/VIC	ROX	Cy5
Well 1	Rotavirus group A/B	Sapovirus types I, II, IV, and V	Norovirus GI and GII	Astrovirus
Well 2	Enterovirus	Adenovirus group F types 40/41	<i>Clostridioides difficile</i>	Internal Control
Well 3	<i>Salmonella</i>	Enteroaggregative <i>Escherichia coli</i> (EAEC) aatA	Enteroaggregative <i>Escherichia coli</i> (EAEC) aggR	—
Well 4	Enterotoxigenic <i>Escherichia coli</i> (ETEC) LT	Enteroinvasive <i>Escherichia coli</i> (EIEC)/ <i>Shigella</i>	Enterotoxigenic <i>Escherichia coli</i> (ETEC) STh	Enterotoxigenic <i>Escherichia coli</i> (ETEC) STp
Well 5	Enterohemorrhagic <i>Escherichia coli</i> (EHEC) stx1	Enterohemorrhagic <i>Escherichia coli</i> (EHEC) stx2	Enteropathogenic <i>Escherichia coli</i> (EPEC)	<i>Escherichia coli uidA</i> (Internal Control)
Well 6	<i>Cronobacter sakazakii</i>	<i>Aeromonas hydrophila</i>	<i>Yersinia enterocolitica</i>	<i>Vibrio fluvialis</i>
Well 7	<i>Vibrio cholerae</i>	<i>Vibrio parahaemolyticus</i>	<i>Campylobacter</i> (<i>Campylobacter jejuni</i> / <i>Campylobacter coli</i> / <i>Campylobacter upsaliensis</i>)	<i>Plesiomonas shigelloides</i>
Well 8	<i>Cryptosporidium</i>	<i>Enterocytozoon bienersi</i>	<i>Entamoeba histolytica</i>	<i>Giardia lamblia</i> / <i>Giardia intestinalis</i>

Application Scenarios

Gastroenterology Outpatient & Emergency	Pediatrics & Geriatrics	ICU, Proctology & Gastroenterology	Hepatology, Nephrology & Endocrinology	Oncology & Hematology	Infectious Diseases
Preliminary screening of diarrheal causes	Pathogen screening for acute and chronic diarrhea	Etiological screening for acute and chronic diarrhea	Tracing diarrheal causes in patients with underlying diseases	Investigation of tumor- or therapy-related causes	Etiological screening and outbreak tracing

Ordering Information



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

