

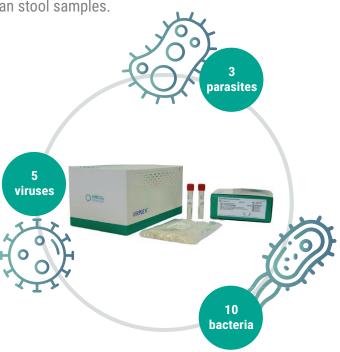
# VIRPLEX **Gastrointestinal Solutions**

Accurate and reliable real-time PCR kits for gastrointestinal pathogens

# VIRPLEX REAL-TIME GASTROINTESTINAL PCR KITS

Real-time PCR multiplex kits for the detection of nucleic acids from bacteria, viruses and parasites that cause gastrointestinal infections in human stool samples.

- Wide coverage of pathogens that can cause gastrointestinal infections
- · Simple extraction process using included swabs and sample dilution tubes to avoid PCR inhibitors.
- Endogenous control for monitoring the carry-over of amplification inhibitors, sample DNA/RNA integrity and the correct amplification set-up.
- Lyophilized master mix and positive control to ensure stability and reduce transportation costs.
- Fully automated workflow using MagXtract<sup>®</sup>, CFX<sup>®</sup> and Vircom Molecular in less than 3 hours. Up to 18 targets per sample.



### Analytes

#### **GASTROVIRUS REALTIME PCR**

- Norovirus (genogroups 1 and 2 in the same channel)
- Rotavirus
- Adenovirus (40/41)
- Sapovirus
- Astrovirus

### **GASTROPARASITES 1 REALTIME PCR**

- Entamoeba histolytica
- · Giardia lamblia
- Cryptosporidium spp

#### **GASTROBACTERIA REALTIME PCR**

- Aeromonas spp
- Campylobacter spp
- Clostridium difficile toxin B · Vibrio spp
- E. coli EIEC/Shigella spp
- E. coli ETEC
- E. coli STEC
- Salmonella spp
- Yersinia enterocolitica · Campylobacter jejuni/ coli



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# WHY IS PCR BETTER FOR DIAGNOSE GI INFECTIONS? $\bigcirc$

Gastrointestinal (GI) infections caused by viruses, bacteria, and parasites are a major global health concern, responsible for millions of cases of gastroenteritis each year. Diarrheal diseases are one of the leading causes of mortality worldwide, particularly affecting children under the age of five in developing countries, where poor sanitation significantly increases the risk of infection. In developed nations, outbreaks are more commonly linked to contaminated food, water, or healthcare-associated infections.

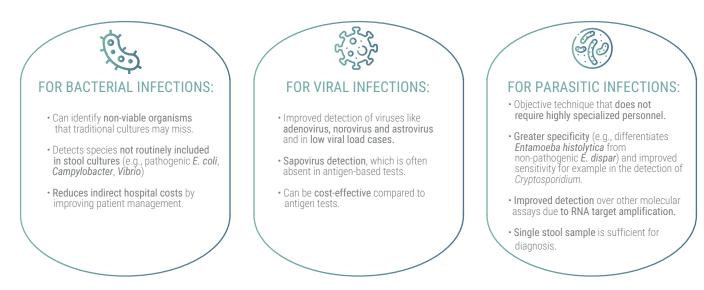
The pathogens responsible for gastroenteritis cause similar symptoms but require different treatment approaches, so accurate diagnosis is key to make informed therapeutic decisions, avoid unnecessary antibiotic use, and implement appropriate infection control measures.

Traditional diagnostic methods, such as stool cultures and microscopy, have been the gold standard for detecting GI pathogens. However, these methods come with limitations, such as long turnaround times and lack of sensitivity. Modern molecular diagnostic techniques, such as real-time PCR, have been proven to be more efficient than conventional methods, offering high sensitivity and specificity while reducing turnaround time, enabling faster and more precise treatment decisions.

## MORE BENEFITS OF MOLECULAR DIAGNOSTICS

### Kit performance 🙆

GASTROVIRUS REALTIME PCR	Sensitivity	Specificity	No. of sample
Norovirus	96%	100%	108
Rotavirus	97%	100%	112
Adenovirus	96%	100%	103
Sapovirus	98%	100%	103
Astrovirus	98%	100%	107
GASTROPARASITES 1 REALTIME F	PCR		
	Sensitivity	Specificity	No. of sample
Entamoeba histolytica	98%	100%	108
Giardia lamblia/intestinalis	98%	100%	111
Cryptosporidium spp.	98%	100%	109
GASTROBACTERIA REALTIME PCR			
	Sensitivity	Specificity	No. of samples
Aeromonas spp	Sensitivity 96%	Specificity 100%	No. of samples
Campylobacter spp	96%	100%	105
Campylobacter spp Clostridium difficile toxin B	96% 100%	100% 100%	105 101
Campylobacter spp Clostridium difficile toxin B E. coli EIEC/Shigella spp	96% 100% 96%	100% 100% 100%	105 101 105
Campylobacter spp Clostridium difficile toxin B E. coli EIEC/Shigella spp E. coli ETEC	96% 100% 96% 96%	100% 100% 100% 100%	105 101 105 100
Campylobacter spp Clostridium difficile toxin B E. coli EIEC/Shigella spp E. coli ETEC E. coli STEC	96% 100% 96% 96% 98%	100% 100% 100% 100% 100%	105 101 105 100 101
Aeromonas spp Campylobacter spp Clostridium difficile toxin B E. coli EIEC/Shigella spp E. coli ETEC E. coli STEC Salmonella spp Vibrio spp	96% 100% 96% 98% 96%	100% 100% 100% 100% 100% 100%	101 105 100 101 101



### INFORMATION AND RELATED PRODUCTS

Description	Reference	Class	Content
GASTROVIRUS REALTIME PCR KIT	RTPCR028-LP	CE <sub>0123</sub> IVDR	48 tests
GASTROPARASITES 1 REALTIME PCR KIT	RTPCR024-LP	CE <sub>0123</sub> IVDR	48 tests
GASTROBACTERIA REALTIME PCR KIT	RTPCR029-LPD	CE <sub>0123</sub> IVDR	48 tests
AMPLIRUN® TOTAL GASTROINTESTINAL BACTERIAL PANEL (STOOL)	MBTC021	CE	10 vials

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