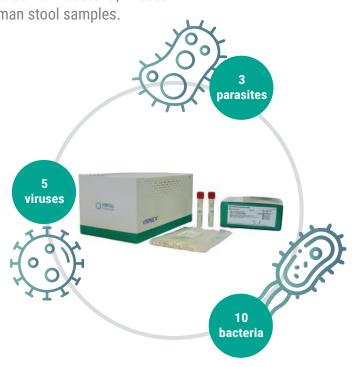


VIRPLEX REAL-TIME GASTROINTESTINAL PCR KITS

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
- Easy sample preparation with included swabs and dilutions tubes
 designed to reduce PCR inhibition and improve reliability.
- 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®, CFX® and Vircom Molecular. 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 + C. jenuni/C. coli
- Clostridium difficile toxin B
- E. coli EIEC/Shigella spp
- E. coli ETEC
- E. coli STEC
- · Salmonella spp
- Vibrio spp
- Yersinia enterocolitica



VIRPLEX Gastrointestinal Solutions

Accurate and reliable real-time PCR kits for gastrointestinal pathogens

WHY IS PCR BETTER FOR DIAGNOSING GI INFECTIONS?

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 making 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.

Kit performance 💮

GASTROVIRUS REALTIME PCR	Sensitivity	Specificity	No. of samples
Norovirus	96%	100%	108
Rotavirus	97%	100%	112
Adenovirus	96%	100%	103
Sapovirus	98%	100%	103
Astrovirus	98%	100%	107

GASTROPARASITES 1 REALTIME PCR

	Sensitivity	Specificity	No. or samples
Entamoeba histolytica	98%	100%	108
Giardia lamblia/intestinalis	98%	100%	111
Cryptosporidium spp.	98%	100%	109

Sancitivity

Specificity No of car

GASTROBACTERIA REALTIME PCR

	Sensitivity	Specificity	No. or samples
Aeromonas spp	96%	100%	105
Campylobacter spp	100%	100%	101
Clostridium difficile toxin B	96%	100%	105
E. coli EIEC/Shigella spp	96%	100%	100
E. coli ETEC	98%	100%	101
E. coli STEC	96%	100%	101
Salmonella spp	96%	100%	107
Vibrio spp	98%	100%	102
Yersinia enterocolitica	96%	100%	103

MORE BENEFITS OF MOLECULAR DIAGNOSTICS



FOR BACTERIAL INFECTIONS:

- It can identify **non-viable organisms** that traditional cultures may miss.
- Detects species not routinely included in stool cultures (e.g., pathogenic *E. coli, Campylobacter, Vibrio*)
- Reduces indirect hospital costs by improving patient management.



FOR VIRAL INFECTIONS:

- Improved detection of viruses such as adenovirus, norovirus and astrovirus especially in cases with low viral load.
- Sapovirus detection, which is often absent in antigen-based tests.
- Offers a cost-effective alternative to antigen-based tests.



FOR PARASITIC INFECTIONS:

- Objective technique that does not require highly specialized personnel.
- Greater specificity (e.g., differentiates Entamoeba histolytica from non-pathogenic E. dispar) and improved sensitivity for example in the detection of Cryptosporidium.
- Improved detection over other molecular assays due to RNA target amplification.
- Single stool sample is sufficient for diagnosis.

INFORMATION AND RELATED PRODUCTS

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

Vircell, S.L. Parque Tecnológico de la Salud, Avicena 8. 18016 Granada, España. info@vircell.com Vircell Spain, S.L.U. Pol. Ind. Dos de Octubre, Plaza Domínguez Ortiz 1. 18320 Santa Fe, Granada Delegación Madrid: 913 457 903. Delegación Barcelona: 933 099 530. www.vircell.com

