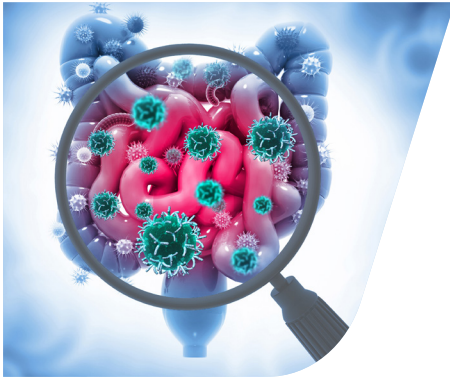


# Gastrointestinal infections



Gastrointestinal infections – group of diseases are caused by bacteria, viruses or parasites, which have similar symptom complex. They are the most common infectious diseases worldwide causing about 2 billion gastroenteritis cases every year. Gastrointestinal infections are the second most common cause of death in children under the age of 5. There are three main ways of transmission of gastrointestinal infections: through contaminated food, water and from person to person by direct contact or through fomites. The main source of infection is an infected person or a carrier of a pathogenic infection. Symptoms usually begin 12-72 hours after infection, if due to a virus, the condition usually resolves within one week. Some bacterial infections may persist for several weeks.

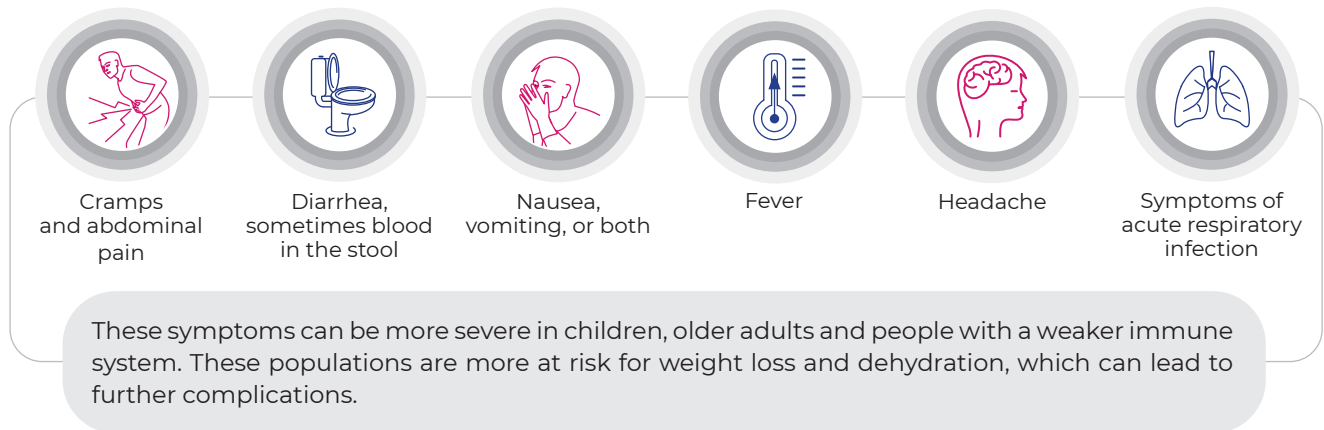
## The main causative agents of gastrointestinal infections

**Bacteria:** *Campylobacter* spp., *Salmonella* spp., *Shigella* spp. and pathogenic strains of *Escherichia coli*; *Listeria* spp., *Bacillus cereus*, *Clostridium perfringens*, *Staphylococcus aureus*;

**Viruses:** Adenovirus, Rotavirus, Astrovirus, Norovirus and Enterovirus;

**Parasites:** *Giardia lamblia*, *Entamoeba histolytica*, *Cryptosporidium* spp.

## Symptoms include:



## Diagnostics

Symptoms of intestinal infection are the same in a number of other diseases, so it is impossible to accurately diagnose by symptoms.

Differential diagnostics by real-time PCR allows

- to choose a specific treatment in a short period;
- to control dissemination;
- to make a decision to hospitalise the patients or treat them on an outpatient basis



# Kits for PCR-diagnostics of gastrointestinal infections

**Clinical specimens:** feces, water samples, rectal swabs



User-friendly preparation of feces suspension by using **8867 Transport solution (M)**



**Nucleic acid extraction:**

- **8896 RealBest extraction 100** for manual nucleic acids extraction
- **8883 RealBest UniMag** for automated nucleic acids extraction for KingFisher Flex system and analogues after validation



**Kits for detection of gastrointestinal infections by real-time PCR**

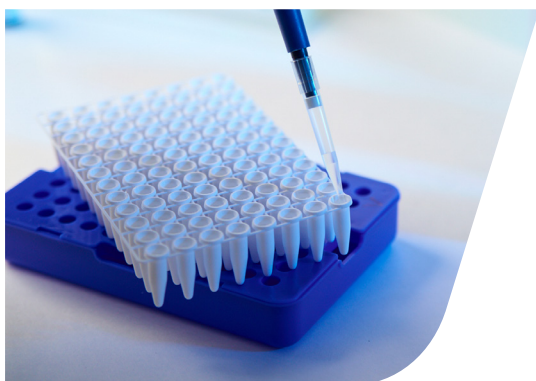
**1696** RealBest RNA Norovirus GI/Norovirus GII

**1697** RealBest RNA Rotavirus A/Astrovirus

**1698** RealBest DNA Salmonella spp./Adenovirus F

**1699** RealBest DNA Campylobacter (thermophilic spp.)/ Shigella spp., EIEC

## Kit features



- The kits contain lyophilized Ready Master Mix in 0.2 ml tubes of the 96-tube plate
- Universal Positive Control sample
- Noncompetitive Internal Control sample
- Universal amplification protocol suitable for all kits
- The kits are compatible with CFX96 (Bio-Rad, USA), DTprime (DT-96), DTlite (DNA-Technology, Russia), Gentier 96E/R (Xi'an TianLong, Science and Technology Co., Ltd., China) and other thermocyclers with similar characteristics after validation
- Shelf life of the kits is 18 months (2-8 °C); Transportation up to 26 °C for no more than 10 days is acceptable

Signed to print in August, 2023.

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