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Multiplex technology for screening for gastrointestinal pathogens

It is possible to detect multiple infectious agents in one assay using only one stool sample. This not only saves time and money but will provide you with many results at once. Multiplex technology allows a large number of tests to be conducted simultaneously and analyzed quickly, cost-effectively and accurately. This means multiple targets can be detected in a single sample. The bioassays are run with color-coded beads, known as microspheres. These are labeled with antibodies, antigens or oligonucleotides, which are then read in an analyzer. The system combines advanced fluidics, optics and digital signal processing to provide this multiplex assay platform.

The **infectious gastroenteritis panel** screens for bacteria, viruses and parasites in one assay, covering 95% of all diarrhea-causing infections. Only one stool sample is required to test for the following:

Bacteria and bacterial toxins:

Salmonella
Shigella
Campylobacter
Clostridium difficile Toxin A/B,
E.coli O157
Enterotoxigenic *E. coli* (ETEC) LT/ST
Shiga-like toxin producing *E.coli* (STEC) stx1/stx2
Vibrio cholera
Yersinia enterocolitica

Viruses:

Adenovirus 40/41
Rotavirus A
Norovirus GGT/GGII

Parasites:

Giardia lamblia
Entamoeba histolytica
Cryptosporidium

Indication: suspicion of infectious gastroenteritis
Material: 5 g stool
Turnaround time: Germany, 7-10 d
Method: Multiplex technology
Reference range: negative