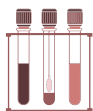




Detection of **acute enteric infection** pathogens and **screening** for asymptomatic infections *Campylobacter coli/jejuni*, *Shigella*/EIEC, *Salmonella* spp., and *Yersinia enterocolitica* by real-time PCR

	BacScreen AEI 1	BacScreen AEI 2*
<i>Campylobacter coli/jejuni</i> without differentiation	✓	✓
<i>Shigella</i> /EIEC without differentiation	✓	✓
<i>Salmonella</i> spp.	✓	✓
<i>Yersinia enterocolitica</i>	—	✓

*The test can only be performed using thermocyclers with 5 or more detection channels: DT instruments (DNA-Technology), CFX96 (Bio-Rad Laboratories)

**Biomaterial:**

Feces and bacterial cultures obtained from this biomaterial



Total bacterial load
as a preanalytical stage control

**High speed of research**

from 2.5 hours, including sample preparation



The possibility
of automatization
of all analysis stages

 Biomaterial	■ Feces ■ Bacterial cultures obtained from the feces		Storage of fecal samples: +2...+8°C for no more than 3 days +18...+25°C for no more than 6 hours
 DNA extraction kits	Manual extraction ■ PREP-MB MAX ■ PREP-GS/PREP-GS PLUS ■ PREP-NA/PREP-NA PLUS ■ PREP-OPTIMA	Automatization ■ PREP-MB MAX	
 Package	■ Standart (S, strips) ■ Standart (S, tubes) ■ Not pre-aliquoted (U)		Not pre-aliquoted (U)
 Equipment	Amplification BacScreen AEI 1 ■ DTprime *M* ■ DTlite *S* ■ CFX96 (Bio-Rad Laboratories) ■ Applied Biosystems QuantStudio 5 (Life Technologies Holdings Pte. Ltd) BacScreen AEI 2 ■ DTprime 5M* ■ DTlite 5S* ■ CFX96 (Bio-Rad Laboratories)		Amplification BacScreen AEI 1 ■ DTprime *X* BacScreen AEI 2 ■ DTprime 5X* Robotic workstations BacScreen AEI 1, BacScreen AEI 2 ■ DTstream 12M1 ■ DTstream 15M1
 Analytical sensitivity	10 DNA copies per amplification tube		
 Analysis time	From 2.5 hours, including sample preparation		
 Number of samples	96, including control samples		

An example of the BacScreen AEI 2 specific report

Detection of *Campylobacter coli* and *Campylobacter jejuni* DNA (without differentiation), DNA of *Shigella* spp. and enteroinvasive *E.coli* (EIEC) (without differentiation), DNA of *Salmonella* spp., and DNA of pathogenic strains of *Yersinia enterocolitica* by Real-Time PCR (BacScreen AEI 2)

Date:
 Sample marking:
 Patient:
 Sex:
 Age:
 Physician:
 Comment:

Sample ID:

Name of research	Result
Campylobacter coli/jejuni	Not detected
Salmonella spp.	DETECTED
Shigella/EIEC	Not detected
Yersinia enterocolitica	Not detected

Specialized software provides automatic results interpretation and forms a specific report



→ Biomaterial collection



→ DNA extraction



→ Real-time PCR



+2 °C ... +8 °C
 -18 °C ... -22 °C (TechnoTag MAX
 polymerase – component of package U)
 12 months



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 accounting



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