

# Shigella/EIEC and Salmonella spp.



## Detection of *Shigella*/EIEC\* (enteroinvasive *E.coli*) and *Salmonella* spp. DNA by real-time polymerase chain reaction



Detection of:

- two *Shigella*/EIEC virulence factors (*invE* and *ipaH*\*\*)
- *Salmonella* spp.



Total bacterial load as a preanalytical stage control



Biomaterial:  
Feces and bacterial cultures obtained from this biomaterial



Multiplex format – one tube for one sample



Fast analysis from 2.5 hours, including sample preparation



Automatic generation of the results form



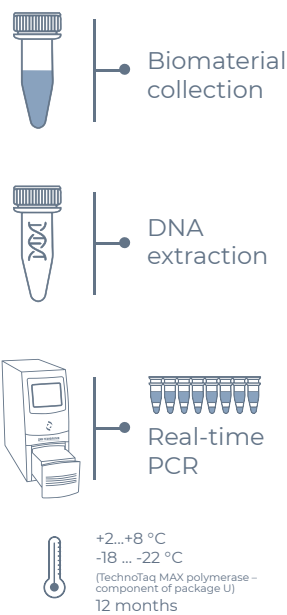
The possibility of automatization of all analysis stages

**Detection of acute enteric infection pathogens and screening of asymptomatic infections of *Shigella*/EIEC and *Salmonella* spp.**

\* Without differentiation

\*\* Detection of at least one of the markers (*ipaH*, *invE*) indicates the presence of *Shigella* or EIEC

Biomaterial	<ul style="list-style-type: none"> <li>■ Feces</li> <li>■ Bacterial cultures obtained from feces</li> </ul>	Storage of feces samples: +2...+8 no more than 3 days +18...+25 for no more than 6 hours
DNA extraction kits	<b>Manual extraction</b> <ul style="list-style-type: none"> <li>■ PREP-MB MAX</li> <li>■ PREP-GS/PREP-GS PLUS</li> <li>■ PREP-NA/PREP-NA PLUS</li> <li>■ PREP-OPTIMA</li> </ul>	<b>AUTOMATIZATION</b> <ul style="list-style-type: none"> <li>■ PREP-MB MAX</li> </ul>
Package	<ul style="list-style-type: none"> <li>■ Standart (S, strips)</li> <li>■ Standart (S, tubes)</li> <li>■ Not pre-aliquoted (U)</li> </ul>	<ul style="list-style-type: none"> <li>■ Not pre-aliquoted (U)</li> </ul>
Equipment	<b>Amplification</b> <ul style="list-style-type: none"> <li>■ DTprime *M*</li> <li>■ DTlite *S*</li> <li>■ CFX96 (Bio-Rad Laboratories)</li> </ul>	<b>Amplification</b> <ul style="list-style-type: none"> <li>■ DTprime *X*</li> </ul> <b>Dosing instruments</b> <ul style="list-style-type: none"> <li>■ DTstream 12M1</li> <li>■ DTstream 15M1</li> </ul>
Analytical sensitivity	15 copies per amplification tube	
Time of analysis	From 2.5 hours, including sample preparation	
Number of samples	96 tests, including control samples	



### An example of the result form

#### Shigella/EIEC and Salmonella spp.

Data:  
Tube number:  
Patient:  
Sex:  
Age:  
Physician:  
Comment:

Sample ID:

Test name:	Result
Salmonella spp.	DETECTED
Shigella/EIEC (ipaH)	not detected
Shigella/EIEC (invE)	DETECTED

#### Conclusion:

DNA of Salmonella spp. is detected.  
DNA of Shigella/EIEC is detected.

**Specialized software** - automatic results interpretation and creation of a result form



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