VIASURE MULTIPLEX

Salmonella, Campylobacter & Y. enterocolitica Real Time PCR Detection Kit

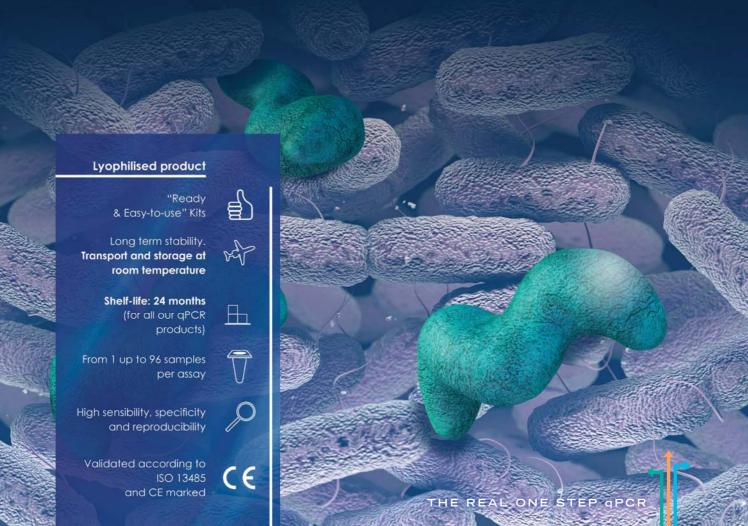
Pathogen and product description

Salmonella causes two types of diseases: typhoid fever and acute gastroenteritis commonly referred to as salmonellosis. Transmission of Salmonella occurs through contaminated food (poultry, poultry products, beef, pork, eggs, milk, and seafood), water or contact with infected animals. Patients infected with Salmonella frequently suffer nausea, vomiting, abdominal cramps/pains, achiness, fever, intense diarrhea and/or headache.

The most common species of *Campylobacter* associated with human illness are *C. jejuni* and *C. coli*, but other species can also cause human infections. Risk factors include consumption of animal products and water, contact with animals, and even person-to-person transmission (fecal-oral or via fomites). Infection with *Campylobacter* causes gastroenteritis characterised by fever, vomiting, headaches, and abdominal pain with watery or

bloody diarrhea, for a median duration of 6 days. Yersinia enterocolitica is a foodborne pathogen and its clinical manifestations typically include nausea, vomiting, abdominal pain, diarrhea and fever. There is a strong evidence that the food of animal origin especially pork and dairy products are responsible for human infections.

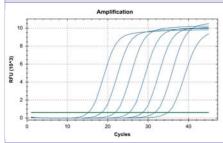
VIASURE Salmonella, Campylobacter & Yersinia enterocolitica Real Time PCR Detection Kit is designed for the diagnosis of the Salmonella, Campylobacter and/or Yersinia enterocolitica in human stool samples. After DNA isolation, the identification of Salmonella, Campylobacter and/or Yersinia enterocolitica is performed by the amplification of a conserved region of the invA gene for Salmonella, 16S rRNA gene for Campylobacter and ail gene for Yersinia enterocolitica (if present), using specific primers and a fluorescent-labelled probe.

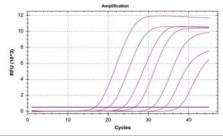




Analytical sensitivity

VIASURE *Salmonella, Campylobacter & Y. enterocolitica* Real Time PCR Detection Kit has a detection limit of ≥ 10 DNA copies per reaction for Salmonella, Campylobacter and Yersinia enterocolitica (figures 1, 2 and 3).





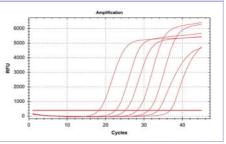


Figure 1. Dilution series of Salmonella (10⁷−10¹ copies/rxn) template run on the Bio-Rad CFX96 Touch[™] Real-Time PCR Detection System FAM channel).

Figure 2. Dilution series of Campylobacter (10⁷−10¹ copies/rxn) template run on the Bio-Rad CFX96 Touch[™] Real-Time PCR Detection System (Cv5 channel).

Figure 3. Dilution series of Yersinia enterocolitica (10⁷−10¹ copies/rxn) template run on the Bio-Rad CFX96 Touch[™] Real-Time PCR Detection System (ROX channel).

Components

Kit References

Description

6 x 8-well strips, low profile

6 x 8-well strips, high profile

12 x 8-well strips, low profile

12 x 8-well strips, high profile

96-well plate, low profile

96-well plate, high profile

Reference

VS-SCY106L

VS-SCY106H

VS-SCY112L

VS-SCY112H

VS-SCY113L

VS-SCY113H

Reagent/Material	Description	Quantity
Salmonella, Campylobacter & Y. enterocolitica 8-well strips	A mix of enzymes, primers-probes, buffer, dNTPs, stabilizers and Internal control in stabilized format	6/12 x 8-well strip
Salmonella, Campylobacter & Y. enterocolitica 96-well plate	A mix of enzymes, primers-probes, buffer, dNTPs, stabilizers and Internal control in stabilized format	1 plate
Rehydration Buffer	Solution to reconstitute the stabilized product	1 vial x 1,8 mL
Salmonella, Campylobacter & Y. enterocolitica Positive Control	Non-infectious synthetic lyophilized cDNA	1 vial
Negative Control	Non template control	1 vial x 1 mL
Water RNAse/DNAse free	Water RNAse/DNAse free	1 vial x 1 mL
Tear-off 8-cap strips	Optical caps for sealing wells during thermal cycling	6/12 x 8-cap strip
Shell Frame Grid	Shell Frame Grid	1 or 2

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Work Flow

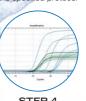
One-step rehydration of wells and add your extracted DNA



Add 15 µl of rehydration buffer into each well

STEP 2
Add 5 µl of DNA sample / positive control / negative control

STEP 3
Load the strips into the thermocycler and run the specified protocol



STEP 4 Interpretate results



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