

VIASURE

Salmonella Real Time PCR Detection Kit

Pathogen and product description

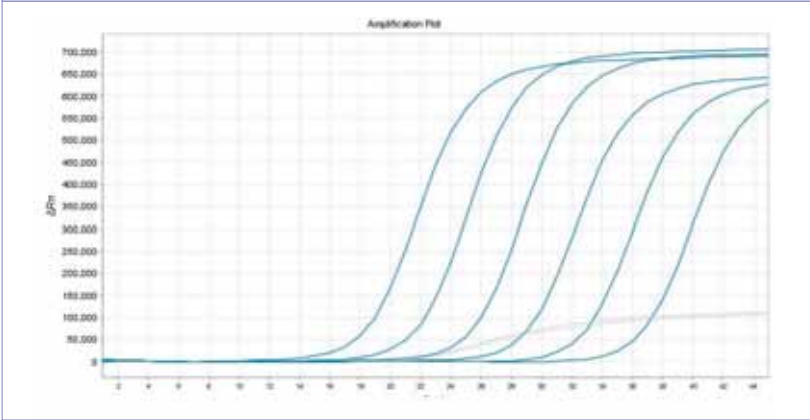
S*almonella* species are a leading bacterial cause of acute gastroenteritis with major impact on public health. The *Salmonella* genus is divided taxonomically into six *Salmonella enterica* subspecies and *Salmonella bongori*. Up to date, more than 2,500 *Salmonella* serovars are described which are pathogenic for humans. *Salmonella* causes two types of diseases: enteric (typhoid) fever and acute gastroenteritis (salmonellosis).

VIASURE *Salmonella* Real Time PCR Detection Kit is designed for the diagnosis of salmonellosis caused by *Salmonella* in human stool samples. After DNA isolation, the identification of *Salmonella* is performed by the use of target specific primers and a fluorescent-labeled probe that hybridizes to a conserved region with the *invA* gene.



Analytical sensitivity

VIASURE Salmonella Real Time PCR Detection Kit has a detection limit of ≥ 100 DNA copies per reaction



Dilution series of Salmonella (10^7 - 10^2 copies/rxn) template run on the Applied Biosystems StepOne™ Real-Time PCR System

Components

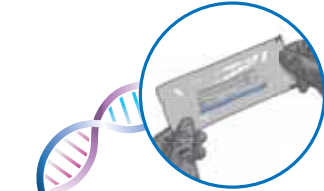
Reagent/Material	Description	Quantity
Salmonella 8-well strips	A mix of enzymes, primers-probes, buffer, dNTPs, stabilizers and Internal control in stabilized format	6/12 X 8-well strip
Salmonella 96-well plate	A mix of enzymes, primers-probes, buffer, dNTPs, stabilizers and Internal control in stabilized format	1 plate
Rehydration Buffer	Solution to reconstitute the stabilized product	1 vial x 1,8 mL
Salmonella Positive Control	Non-infectious synthetic lyophilized DNA	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

Kit References

Reference	Description
VS-SAM106L	Viasure Salmonella Real Time PCR Detection Kit 6 x 8-well strips, low profile
VS-SAM106H	Viasure Salmonella Real Time PCR Detection Kit 6 x 8-well strips, high profile
VS-SAM112L	Viasure Salmonella Real Time PCR Detection Kit 12 x 8-well strips, low profile
VS-SAM112H	Viasure Salmonella Real Time PCR Detection Kit 12 x 8-well strips, high profile
VS-SAM113L	Viasure Salmonella Real Time PCR Detection Kit 96-well plate, low profile
VS-SAM113H	Viasure Salmonella Real Time PCR Detection Kit 96-well plate, high profile

Work Flow

One-step rehydration of wells and add your extracted DNA



STEP 1
Separate the number of required strips you need



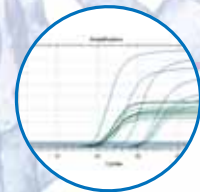
STEP 2
Add 15 μ l of rehydration buffer into each well



STEP 3
Add 5 μ l of DNA sample / positive control / negative control



STEP 4
Load the strips into the thermocycler and run the specified protocol



STEP 5
Interpretate results