

# ShigaToxin1-Producing Bacteria (STX1) Detection Kit

Shiga toxin-producing *E. coli* (STEC), also known as Verocytotoxin-producing *E. coli* (VETC), belong to the group of enterohemorrhagic *E. coli* (EHEC). More than 100 *E. coli* serotypes are known to produce Shiga toxin. Shiga toxin can cause serious illness, such as bloody diarrhea (hemorrhagic colitis), hemolytic uremic syndrome (HUS), resulting in death. *E. coli* O157:H7 is a notorious STEC serotype that has been associated with several large outbreaks worldwide.

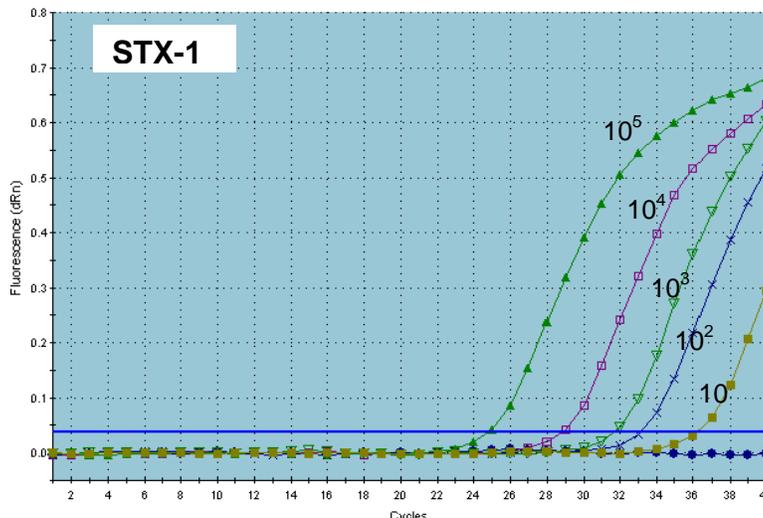
The other Shiga toxin-producing bacteria, *Shigella* spp, have caused millions of cases of shigellosis worldwide, frequently resulting in death. Shiga toxin-producing bacteria are clearly an important class of food-borne pathogens that require constant monitoring. They can be detected by sensitive and specific real time PCR assays.

The eQ-PCR™ Shiga Toxin-producing Bacteria Detection Kit is designed to detect Shiga toxin-producing *E. coli* (STEC) and *Shigella* present in human samples. All these bacteria carry at least one of the *Stx1* and *Stx2* genes, these markers, therefore, can be used as the target genes for the detection of Shiga toxin-producing bacteria. TrimGen's eQ-PCR™ STX1 detection kit detects Shiga Toxin 1-producing bacteria only. It is a very powerful tool to identify food-borne pathogens.

**eQ-PCR™ STX1 Detection kit** is a highly sensitive test for early detection of the Shiga toxin-producing bacteria from blood, stool or the environment (irrigation water). The test is conducted using real-time PCR and performed in a closed-tube, walk-away system. STX-1 is visualized in the Cy-5 channel.

<b>Assay Type:</b>	Detection
<b>Sensitivity:</b>	10 - 20 copies / ml sample
<b>Sample Source:</b>	DNA from blood, irrigation water
<b>Platform</b>	ABI 7500, 7900 Stratagene Mx3000P LightCycler SpartanDX

eQ-PCR™ STX kit is able to detect 10 – 100,000 copies of the Shiga toxin-producing bacteria.



### Product Information

Name	Kit size	Cat No.
Shiga Toxin 1 Bacteria (STX1) Detection Kit	32 tests	EP-300a

Please specify the platform used in your lab when ordering

For Research Use Only.  
Not for use in diagnostic procedures.



**800.825.6005**  
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