

Template for PCR pathogen Detection

Positive Control Template EC2

Code No. S033 **Size:** **5 ng**
Conc.: **100 pg/ μ l**

* 2 years from date of receipt under proper storage conditions.

Detectable Gene :

This product contains positive control template for PCR detection of pathogenic genes. For the detection of gene of the heat-stable enterotoxin for porcine (STp) of enterotoxigenic *E. coli* (ETEC), use in conjunction with Primer Set ESP-1&2 (Cat. #S005), and for the detection of gene of Verocytotoxin type1 (VT1 : Shiga-like toxin type I) of enterohemorrhagic *E. coli* (EHEC) or Verocytotoxin-producing *E. coli* (VTEC), use in conjunction with Primer Set EVT-1&2 (Cat. #S006).

Amplified Fragment :

with Primer Set ESP (Cat. #S005) : 689 bp
with Primer Set EVT (Cat. #S006) : 686 bp

Form : Supplied in TE buffer.

10 mM Tris-HCl, pH 8.0
1 mM EDTA

Storage: -20°C

Application Example :

1. Reaction mixture for PCR (total 50 μ l)

<i>TaKaRa Taq</i> [™] (5 U/ μ l)	0.25 μ l
10X PCR Buffer* ¹	5 μ l
dNTP Mixture* ² (2.5 mM each)	4 μ l
Primer 1	0.5 μ l
Primer 2	0.5 μ l
Positive Control Template	0.5 μ l
Sterile purified water	39.25 μ l
Total	50 μl

(Reaction mixture shall be prepared on ice.)

*1 Supplied with Primer Set.

*2 Supplied with *TaKaRa Taq* (Cat. #R001A).

2. PCR Condition

94°C	1 min	} 35 cycles
55°C	1 min	
72°C	1 min	

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Note

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