

# Template for PCR pathogen Detection

## Positive Control Template SN

**Code No. S040**                      **Size:**                      **5 ng**  
**Conc.:**                      **100 pg/ $\mu$ l**

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

### Detectable Gene :

This product is available for positive control template to assure PCR performance when detecting pathogenic genes. (PCR product with positive control template shows different size from PCR product with target pathogenic sample.)

Use in conjunction with Primer Set SIN-1&2 (for the detection of *invA* gene of *Salmonella typhimurium*) (Cat. #S018), and use in conjunction with Primer Set STN-1&2 (for the detection of enterotoxin gene of *Salmonella typhimurium*) (Cat. #S019).

### Amplified Fragment :

with Primer Set SIN (Cat. #S018) : 689 bp

with Primer Set STN (Cat. #S019) : 690 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  $\mu$ l)

<i>TaKaRa Taq</i> <sup>™</sup> (5 U/ $\mu$ l)	0.25 $\mu$ l
10X PCR Buffer* <sup>1</sup>	5 $\mu$ l
dNTP Mixture* <sup>2</sup> (2.5 mM each)	4 $\mu$ l
Primer 1	0.5 $\mu$ l
Primer 2	0.5 $\mu$ l
Positive Control Template	0.5 $\mu$ l
Sterile purified water	39.25 $\mu$ l
<b>Total</b>	<b>50 <math>\mu</math>l</b>

(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	

*TaKaRa Taq* is a trademark of Takara Bio Inc.

### Note

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