

# VDx<sup>®</sup> Fowl Typhoid Typing PCR

Cat No. NP-FTI-11

## 1. Description

VDx<sup>®</sup> Fowl Typhoid Typing PCR Kit provides a range of testing for the detection of *Salmonella enterica* serovar Gallinarum biovars Gallinarum and Pullorum and the biovar Gallinarum live vaccine strain 9R and SR2-N6 by multiplex PCR method.

## 2. Storage

The components of VDx<sup>®</sup> Fowl Typhoid Typing PCR kit should be stored at -20°C, under this condition, the kit is stable until expiration date stated on the label.

## 3. Contents

Reagents	50 Tests
PCR Premix (dry form)	56T
Control DNA	100µl X 1
PCR grade water	1ml X 1
Instruction manual	1부

## 4. Template preparation

Briefly, several colonies of bacteria on agar plates, which originated from one single colony in the beginning, were picked with a sterile toothpick and inoculated into 100 µl of TE buffer in a microcentrifuge tube. The cell suspension was boiled in a water bath for 5 min and then briefly centrifuged to pellet cell debris. The supernatant was transferred to a new tube and used as the PCR template.

## 5. PCR method

- 1) Prepare appropriate PCR Premix tubes.
- 2) Add 19µl of PCR grade water into PCR premix tube.
- 3) Add 1µl of template DNA into the PCR premix tube.
- 4) Gently mixed and briefly centrifuged.
- 5) Perform PCR reaction of samples as the below process using PCR machine.

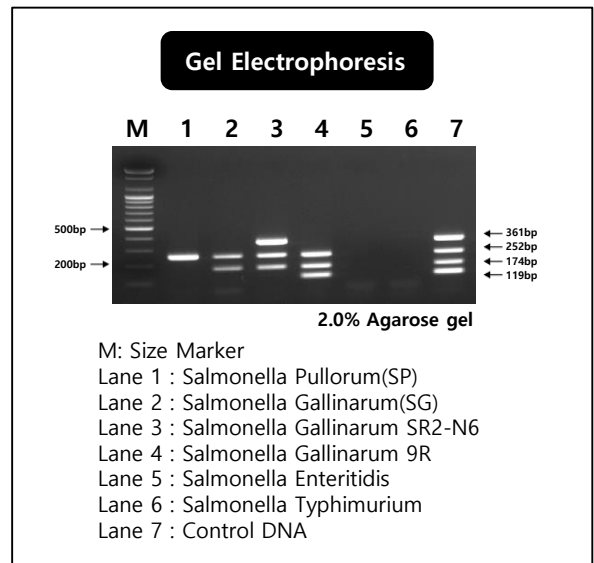
Step	PCR Cycle		
	Temp.	Time	Cycle
Initial Denaturation	94°C	5 min	1 cycle
Denaturation	94°C	30 sec	30 cycles
Annealing	64°C	30 sec	
Extension	72°C	60 sec	
Final Extension	72°C	7 min	1 cycle

## 6. Detection of Amplified Products

- 1) Prepare 2.0% agarose gel containing Ethidium bromide (Et-Br).
- 2) Load 5 µl of PCR product on agarose gel without adding a loading dye buffer and perform electrophoresis.
- 3) Run electrophoresis by 100V (required about 30~40min).
- 4) Identify the result on ultra-violet(UV) transilluminator.

## 7. Interpretation

Pathogen	Band size			
SP	-	-	252bp	-
SG	-	174bp	252bp	-
SG-9R	119bp	174bp	252bp	-
SG-SR2-N6	-	174bp	252bp	361bp
Control DNA	119bp	174bp	252bp	361bp



## 8. Notice

- For research purpose only. Not for use in diagnostic procedures for clinical purposes. *For in Vitro Use Only.*
- Do not use any reagent after the expiration date.
- Do not use together with reagents of other products.

## 9. Trouble shooting

- 1) In the case of difficult to interpret results due to non-specific bands -> Reduce amount of template by 1/10 dilution and reacts again.
- 2) Preparation of PCR reaction at room temperature may cause the non-specific band.
- 3) All procedure should be carried out on ice.

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