

Avian General PCR Kits AIV detection Kit



PCR

Background

Avian Influenza virus are divided into subtypes based on two proteins, hemagglutinin(HA) and neuraminidase(NA), on the surface of the virus. AIV is spread primarily through direct form infected birds to healthy birds, and through indirect contact with contact with contaminated equipment and materials. The virus is excreted through infected birds' feces and secretions from their noses, mouths, and eyes. BIONOTE AIV Detection Test Kit is a complete, easy PCR kit for detection of Sepcific protein gene from Avian influenza type A virus (H1~H16 genes) BIONOTE AIV detection Kit is very accurate and high efficient, and RT-reaction can be done from 50fg to 500ng of template RNA. It is developed with the best condition of synthesis first-strand cDNA, so it is useful for check a low copy of DNA transcription.

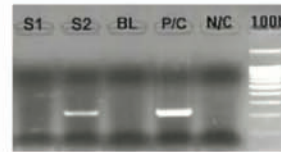
Specifications

- ✓ **High Sensitivity and Specificity** : BIONOTE owning optimal& unique primers and probes system guarantees a highly specific result.
- ✓ **Excellent reproducibility**
- ✓ **Easy to use** : BIONOTE AIV Detection Kits contain all components for the detection of AIV.
- ✓ **Saving labor costs& time in the laboratory**
- ✓ **Includes positive and negative control**

Materials in AIV Detection kit (96tests/Kits)

Contents	Volume
Negative Control	0.5ml
Positive Control	0.5ml
20X RT Mix	0.1ml
20X PCR Enzyme Mix	0.1ml
Detection Solution	0.8ml

Interpretation of the AIV detection Kit



(S1: Negative sample, S2: Positive sample, BL: blank, P/C: Positive control, N/C: Negative control), 100b: 100bp ladder)

Type of AIV General PCR Kit

Product	Diagnosis	Cat.No.
AIV Detection Kit	AIV type A (Matrix gene)	PD55-01
AIV H5 Detection Kit	Subtype H5	PD55-02
AIV H7 Detection Kit	Subtype H7	PD55-03
AIV H9 Detection Kit	Subtype H9	PD55-04

PCR Q & A

Why do AIV PCR Kits require for AIV diagnosis?

- Because the culture methods are time consuming and heavily contaminated (false negative)
- Because the serological methods are not specific enough (false positive) or when the delay of seroconversion is long

What are the samples for PCR assays?

- Sample: RNA extracted from blood, tissue, secretion of birds, horse, pig or human

How accurate?

- Sensitive: 5 fg of viral RNA detectable, detects early at onset of disease as early as 1~2 days
- Precise: Highly specific primers detect only avian influenza viruses.

Advantage

- More sensitivity than general PCR
- Simple and fast PCR procedures