

Avian Real-Time PCR Kit AIV detection Kit



PCR

Background

AIV Real-Time Detection Kit from BIONOTE is useful for detecting the infection of avian influenza A viruses. The kit can be exactly performed to detect RNA of avian influenza A virus, H5, H7, H9 according to subtype, so it can be used for both qualitative and quantitative analysis. It works most of Real-Time PCR apparatuses of block and capillary type.

Specifications

- ✓ **High Sensitivity** : Each BIONOTE Real-Time Detection Kit provides highly effective pathogen detection in a sample material.
→ Possible detection up to 10 copies/ul
- ✓ **High Specificity**: BIONOTE owing optimal& unique primers and probes system guarantees a highly specific result
- ✓ **Excellent reproducibility**: One step Real-Time PCR Kit using Taqman probe
- ✓ **Quantitative and qualitative analysis.**
- ✓ **Complete result within 2 hours** for after RNA extraction
- ✓ **Higher detection limit than general PCR** : 100~1,000 times more sensitive
- ✓ **Simple test procedure**: Adding only detection solution and enzyme
- ✓ **BioNote AIV Detection Kits for AIV** contain all component for detection from sample.
- ✓ **Feces, cloaca, and organ homogenates samples** are recommended

Materials in AIV Detection Kit (96tests/Kit)

Contents	Volume
Standard 1 (1x10 ⁴ copies/μl)	200μl x1
Standard 2 (1x10 ⁵ copies/μl)	200μl x1
Standard 3 (1x10 ⁶ copies/μl)	200μl x1
Standard 4 (1x10 ⁷ copies/μl)	200μl x1
Detection Solution*1	460μl x1
Nuclease Free buffer	1500μl x1
2X Enzyme buffer	1000μl x1
Enzyme Mix	40μl x1
Rox Reference Dye *2	40μl x1

*1: Probe is labeled at the 5'-end with the reporter molecule 6-carboxyfluorescein (FAM).

*2: The kits is provided extra Rox dye for ABI real-time PCR

Real-Time Detection Kits Procedure

Extraction the template RNA

Prepare the PCR MiX

React the testing sample, Standard 1,2,3,4 and negative control at each test tube

Set up the cycle program as following the Applicable Real-Time PCR machine

Set up the report dye as FAM

List of AIV Real-Time Detection Kit

Product	Diagnosis	Cat.No.
AIV A Real -Time Detection Kit	All type A (Matrix gene)	PD65-01
AIV H5 Real -Time Detection Kit	Subtype H5	PD65-02
AIV H7 Real -Time Detection Kit	Subtype H7	PD65-03
AIV H9 Real -Time Detection Kit	Subtype H9	PD65-04
AIV H5/N1 Real-Time Detection Kit	Subtype H5 N1	PD65-016
AIV N1 Real-Time Detection Kit	Subtype N1	PD65-017
AIV H5/N1 Duplex Detection Kit	Subtype H5 and N1	PD65-051