



ANIGEN Rapid AIV Ag Test Kit

Catalogue No.: RG15-01

Anigen Rapid AIV Ag Test Kit is a solid phase chromatographic immunoassay for the qualitative detection of avian influenza type A virus antigens in avian cloaca swabs and faeces.

Background

Influenza viruses that infect birds are called “Avian Influenza virus (AIV)” with only influenza type A viruses infecting birds. Influenza type A viruses are divided into subtypes based on two proteins, hemagglutinin (HA) and neuraminidase (NA), on the surface of the virus. AIV can infect chickens, turkeys, pheasants, quail, ducks, geese, and guinea fowl, as well as a wide variety of other birds. AIV is spread primarily through direct contact between healthy birds and infected birds, and through indirect contact with contaminated equipment and materials. The virus is excreted through infected birds’ faeces and secretions from the nose, mouth, and eyes.



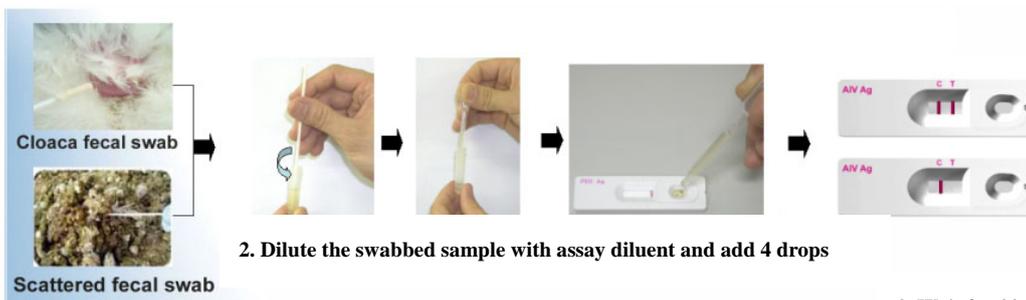
Specifications

- Principle: Immunochromatographic assay using Direct Sandwich Method
 - Monoclonal anti-AIV (Capture)– **AIV Type A** –Monoclonal anti-AIV (Detector)
 - * Monoclonal antibody against Type A specific nucleoprotein of Avian influenza virus
- Purpose: Detection of Avian influenza type A virus (H1~H15)
- Specimen: Avian cloaca swab or faeces
- Reading time: 20 minutes
- Sensitivity : 99.9% vs. HA, ELISA
- Specificity: 99.9% vs. HA, PCR
- No cross reaction with NDV, IBV, ILTV, Pneumovirus, Reovirus, IBDV, MDV, REV
- Detection limit: 10^{4.5} EID₅₀/ml or 0.06 HAU
- Shelf life: 12 months
- Storage temperature: 2~30 °C
- Packing size: 30 multi-devices/Kit, 10 individual devices/Kit

Special Features

- Optimal screening method of AIV in the farm or laboratory
- Detection of all avian influenza type A viruses (H1N1 ~H15N9)
- High Sensitivity compared to PCR, virus isolation method, HA and other immunoassays
- High specificity: No cross-reaction with other avian viruses.
- Detection of AIV in Chicken, Duck, Turkey, Goose
- World first commercialised rapid test kit for detection of avian influenza virus since December 2003
- Easy assay procedure: No technical expertise required, Labour & Time saving
- Fast test result: 20~ 30 minutes.
- No additional equipment is required.
- To get the best result, it is recommended to test 10 birds in every AIV suspected flock.

Test Procedures



1. Collect a cloaca swab or faeces

2. Dilute the swabbed sample with assay diluent and add 4 drops

3. Wait for 20~30 minutes and read the test result.

Independent Comparison Study

Strain	EID ₅₀	Dil. virus	Anigen ICT*	“BD” Flu Ag ICT	“T”AIV Ag ELISA
A/ty/Iu/2962/03/H7N3 LPAI	10 ^{8.5} /ml	10 ¹	+	+	+
		10 ²	+	+	+
		10 ³	+	+	+
		10 ⁴	-	-	-
A/ty/Iu/214845/02/H7N3 LPAI	10 ^{7.5} /ml	10 ¹	+	+	+
		10 ²	+	+	+
		10 ³	+/-	+	+
		10 ⁴	-	-	-
A/ty/Iu/90302/05/H5N2 LPAI	10 ^{7.5} /ml	10 ¹	+	+	+
		10 ²	+	+	+
		10 ³	+	+/-	+
		10 ⁴	-	-	-
A/Chicken/Vietnam #8 (γ-irradiated) – A(H5N1)			+	NT**	NT
A/Duck/Vietnam #7A (γ-irradiated) – A(H5N1)			+	NT	NT
A/?/Vietnam #Pooled (γ-irradiated) – A(H5N1)			+	NT	NT

(*ICT: Immunochromatographic test, **: NT(Not Tested))

Matrix	Animal	Anigen ICT Kit	“B” Flu Ag ICT	“T”AIV Ag ELISA	Inoculation	Strain
Feces	Duck	+	NT**	+/-	+	H11N9
Feces	Duck	+	NT	+	+	H9N8
Tracheal	Turkey	+	+	+	+	H7N3
Tracheal	Turkey	+	+	+	+	H5N2
Tracheal	Turkey	+	+	+	+	H5N2
Feces	Avian	+	NT	+	+	H5N3
Feces	Turkey	-	NT	-	-	-
Tracheal	Avian	-	-	-	-	-
Lung	Pig	-	NT	-	-	-
Tracheal	Turkey	-	-	-	-	-

** : NT (Not Tested)

+ “B” Flu Ag ICT: Not for animal use