



RapiGEN AIV+NDV Combo Ag Test

Cat No. VR0102/ VR0103

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Introduction

Avian influenza virus (AIV) and Newcastle disease virus (NDV) are causing a highly contagious disease of poultry. Because the clinical symptoms of AIV are very similar to those of NDV, the identification and differentiation of AIV and NDV are important to diagnosis.

Rapigen AIV and NDV Ag Combo test kit is a solid phase chromatographic immunoassay coated with monoclonal antibody against the highly conserved nucleocapsid protein of AIV type A and highly specific to almost NDV in two lines respectively. This kit has been found to identify and differentiate AIV A types and almost NDV pathotypes with a high degree of accuracy and highly specification on the one kit.

Specifications

- Principle: immunochromatographic assay Gold conjugate; anti-AIV and Anit-NDV Test line detector; anti- AIV and Anit-NDV
- Detection; Avian influenza type A virus (H1~H15) and NDV (wide range of variants)
- Specimen: avian cloaca, trachea and ground feces
- Sensitivity:
 - AIV; 100% by farm (3/3), 82% by individual (83/97)
 - NDV; **99.2% (2/263)**
- Specificity: **AIV: 99.1% (2/243), AIV H5: 99.6 (1/243)**
- No cross reaction: IBV, IBDV, Mycoplasma and E.coli
- Detection limit: 0.125 HAU (Hemagglutination Unit)
- Detection time; 20-30 minutes
- Shelf life: 18 months
- Storage temperature: 2~30°C
- Packing size: 10 multi-device × 3 Tests/Kit and 20 mono-device Tests/Kit

Features

- It is recommended to test 10 birds shown strong symptom in AIV suspected flock
- Smart sample collection tube; Simple sample collection and experiment, Protection of human, animal and environment from contamination with putative infectious agents
- Quick screening of AIV and/or NDV in the field or laboratory without additional equipment and technical skill
- High accuracy even in duck farm to AIV
- Detection of whole range subtypes H1~H15 and/or variety of NDV strains
- Saving labor and time
- High specificity to other avian virus and bacteria.

Table 1. The comparison study of specimens from duck farm confirmed infection by AIV H5 virus with RT-PCR method

Farm	RapiGEN AIV+NDV Combo Ag test		
	Trachea	Cloaca	Feces
	AIV	AIV	AIV
Farm No 1	14/16	22/24	3/6
Farm No 2	10/13	13/16	8/9
Farm No 3	3/4	3/4	4/5
Specificity	AIV; 100% by farm (3/3), 82% by individual (83/97)		

Table2. Comparison of Sensitivity Study to NDV RT-PCR

Strain		RapiGEN NDV Ag	RT PCR
Wild	High pathogenic	18/20	20/20
	Middle Pathogenic	5/5	5/5
	Low pathogenic	13/13	13/13
Vaccine	B1	1/1	1/1
	Lasota	1/1	1/1
Sensitivity		97.3% (39/40)	

Procedures

