

BlackCheck™

NDV Duplex RT-qPCR Kit

Product Information

Product code BNDVK-48T

Component

NDV Duplex RT-qPCR Kit

Storage Conditions & Stability

It is recommended to store this kit at -20°C and use it immediately after thawing. Repeated freezing and thawing can seriously affect results.

Exp. Date

Marked separately on the Box

Contents of BlackCheck PCR PreMix Kit

NDV Duplex RT-qPCR Kit 48TEST (8strip x6, 15µl/tube)

Description

Newcastle disease (ND) in poultry is caused by the Newcastle disease virus (NDV). The disease is highly contagious, can cause respiratory, gastrointestinal and neurological symptoms when infected, and has a mortality rate of nearly 100%, causing significant economic damage to the poultry industry. NDV is classified into velogenic, mesogenic, lentogenic, and apathogenic depending on the WOAHP considers infection by NDV of mesotype or higher as an outbreak of Newcastle disease.

The NDV Duplex RT-qPCR Kit simultaneously detects pathogenic and non-pathogenic properties, and can quickly and accurately diagnose the occurrence of Newcastle disease.

Characteristics

Convenient: It contains all the components necessary for PCR, so you can check for infection by adding template RNA and distilled water. In addition, since it is a liquid type, it is easy to mix after thawing.

Responsiveness: It uses a buffer with a reverse transcription reaction temperature of up to 50°C and contains a primer that binds explicitly to NDV. Therefore, even if a small amount of template RNA is used, it reacts sensitively and is easy to observe the result value.

Reproducibility: We provide only products verified through our regular and systematic QC system during product production for each lot.

Standard reaction protocol

1. Preparation of RNA Sample

Extract RNA from test samples using an RNA extraction kit and dissolve it in nuclease-free water. If not used for immediate testing, freeze and store until testing.

2. Reaction condition

Add the following components to a thin-walled PCR tube:

1) NDV Duplex RT-qPCR Kit:

NDV Duplex RT-qPCR Premix	15.0 μ l
RNA template	x μ l
Nuclease-Free water	Up to 20 μ l
Total reaction volume	20 μ l

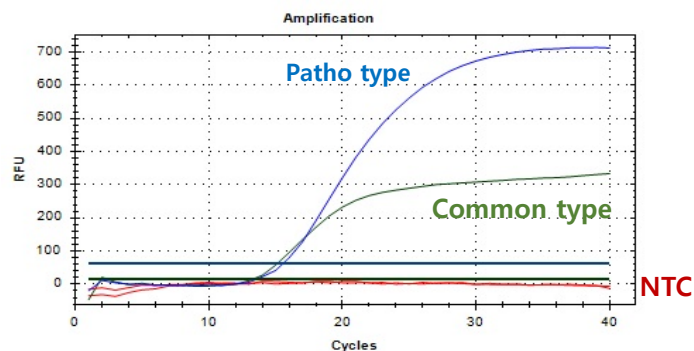
2) PCR cycling

Reverse Transcription	50 °C,	10 min	1 cycle
Initial Denaturation	95 °C	20 sec	1 cycle
Denature	95 °C	5 sec	40 cycle
Anneal	55 °C	50 sec	

3) Dye

	Type	5'	3'
Probe1	Patho type (pathogenicity)	FAM	TAMRA
Probe2	Common type (non-pathogenic)	HEX	TAMRA

Ex) NDV Duplex RT-qPCR Kit



* This data used a recombinant plasmid DNA positive control as a template.

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