

Influchek Avian Flu RT

EVR020050-EVR019050-EVR021050

Introduction:

Avian influenza, which is caused by influenza A viruses, can affect a variety of domestic and wild bird species. Avian influenza in domestic chickens and turkeys is classified according to disease severity, with two recognized forms: highly pathogenic avian influenza (HPAI), also known as fowl plague, and low-pathogenic avian influenza (LPAI). Avian influenza viruses that cause HPAI are highly virulent and mortality rates in infected flocks often approach 100%. While LPAI viruses are generally of lower virulence, LPAI in flocks should be controlled because LPAI viruses can serve as progenitors to HPAI viruses. The World Organization for Animal Health classifies avian influenza as HPAI or LPAI according to the following criteria:

- HPAI viruses have an IVPI in 6-week-old chickens greater than 1.2 or, as an alternative, cause at least 75% mortality in 4-to 8-week-old chickens infected intravenously.
- LPAI are all influenza A viruses of H5 and H7 subtype that are not HPAI viruses. Several different avian influenza strains have been shown to infect humans. These include viruses of the H5 subtype (H5N1), the H7 subtype (H7N2, H7N3, H7N7), the H9 subtype (H9N2), and the H10 subtype (H10N7).

Influchek Avian Flu RT:

Avian Screening & Typing Fluorescence detection with Real Time analysis:

Product	Kit size	Code No.
Influchek Avian Flu RT	50 tests	EVR021050
Influchek Avian Flu RT "Screen"	50 tests	EVR019050
Influchek Avian Flu RT "Type"	50 tests	EVR020050

Influchek Avian Flu RT is an in vitro veterinary nucleic acid amplification test for screening of Avian influenza A virus RNA in clinical specimens (tissues, eggs, mucosal swabs and faeces) and genotyping of positive sam-

ples for H5 and H7 types with a Real time technique.

Kit Components are two modules: the screening (type A) and the Typing one (H5 or H7).

Clinical Evaluation:

a) Analytical specificity*

The kit has shown 100% specificity using a panel including 19 strains of Influenza A viruses (H1N1, H2N3, H3N8, H4N8, H5N1, H5N2 H5N3 H6N2 H7N1 H7N3 H7N7 H8N4 H9N7 H10N1 H11N9 H12N5 H13N6 H14N5 H15N9).

The specificity of the kit was tested also against the other organisms such as the Newcastle Disease Virus and Infectious bronchitis virus strains.

*All data are from the Virology Department of "Istituto Zooprofilattico Sperimentale delle Venezie" - 35020 Legnaro (PD) Italy

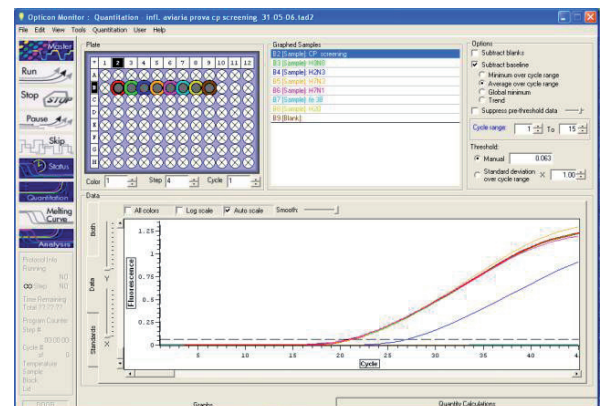
b) Reproducibility

CV < 3% (within run test)

CV < 9,5% (between run test)

c) Sensitivity

Sensitivity of the kit in the biological samples was $1 \times 10^{-3-4}$ EID₅₀



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