

VIASURE MULTIPLEX

Flu A+B Real Time PCR Detection Kit

Pathogen and product description

Influenza viruses belong to the *Orthomyxoviridae* family and cause the majority of viral lower respiratory tract infections. There are 3 types of influenza, A and B being the most common in humans, while influenza C is less common and produces milder disease.

Both types A and B are a significant cause of morbidity and mortality worldwide, considering that elderly and compromised individuals are especially at risk of developing severe illness and complications such as pneumonia. After an incubation period of one to two days, the illness has an abrupt onset. People feel some or all of these symptoms: fever or feeling feverish, chills, cough, sore throat, nasal stuffiness and discharge, myalgia, headaches, and anorexia.

The influenza viruses can be spread from person to person in two different ways: through the air (large droplets and aerosols from sneezing and coughing), and by direct or indirect contact. Wild waterfowl are believed to be the natural reservoir of influenza A viruses, which can transmit the virus to numerous other species, primarily poultry, pigs, and humans.

VIASURE Flu A+B Real Time PCR Detection Kit is designed for the diagnosis of Flu A and/or Flu B in respiratory samples. The isolated RNA target is transcribed generating complementary DNA by reverse transcriptase which is followed by amplification of a conserved region of the *M1* gene for Flu A and Flu B using specific primers and a fluorescent-labeled probe.

Lyophilised product

"Ready & Easy-to-use" Kits



Long term stability.
Transport and storage at room temperature



Shelf-life: 24 months
(for all our qPCR products)



From 1 up to 96 samples per assay



High sensibility, specificity and reproducibility



Validated according to ISO 13485 and CE marked



THE REAL ONE STEP qPCR



Analytical sensitivity

VIASURE Flu A+B Real Time PCR Detection Kit has a detection limit of ≥ 10 RNA copies per reaction for Flu A and Flu B (figures 1 and 2).

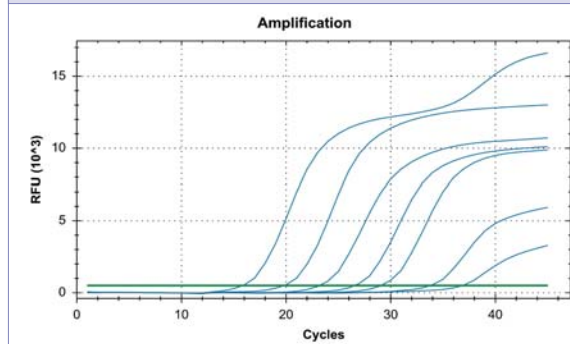


Figure 1. Dilution series of Flu A (10^7 – 10^1 copies/rxn) template run on the Bio-Rad CFX96 Touch™ Real-Time PCR Detection System (FAM channel).

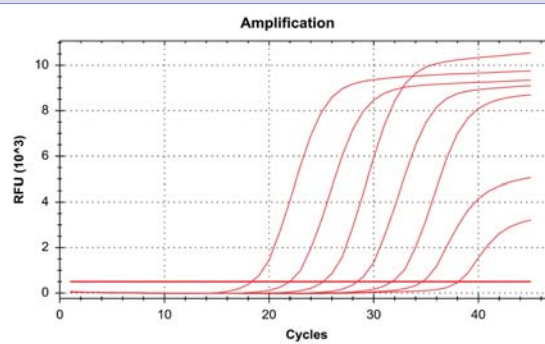


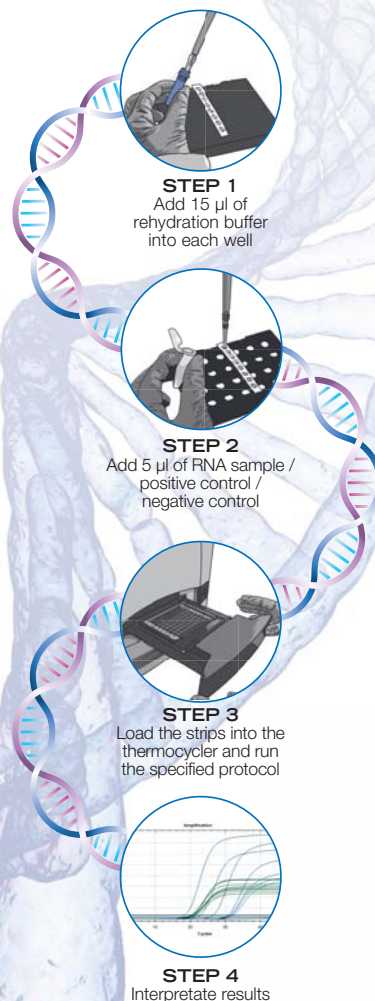
Figure 2. Dilution series of Flu B (10^7 – 10^1 copies/rxn) template run on the Bio-Rad CFX96 Touch™ Real-Time PCR Detection System (ROX channel).

Components

Reagent/Material	Description	Quantity
Flu A+B 8-well strips	A mix of enzymes, primers-probes, buffer, dNTPs, stabilizers and Internal control in stabilized format	6/12 x 8-well strip
Flu A+B 96-well plate	A mix of enzymes, primers-probes, buffer, dNTPs, stabilizers and Internal control in stabilized format	1 plate
Rehydration Buffer	Solution to reconstitute the stabilized product	1 vial x 1,8 mL
Flu A+B Positive Control	Non-infectious synthetic lyophilized cDNA	1 vial
Negative Control	Non template control	1 vial x 1 mL
Water RNase/DNase free	Water RNase/DNase free	1 vial x 1 mL
Tear-off 8-cap strips	Optical caps for sealing wells during thermal cycling	6/12 x 8-cap strip
Shell Frame Grid	Shell Frame Grid	1 or 2

Work Flow

One-step rehydration of wells and add your extracted RNA



Kit References

Reference	Description
VS-IAB106L	Viasure Flu A+B Real Time PCR Detection Kit 6 x 8-well strips, low profile
VS-IAB106H	Viasure Flu A+B Real Time PCR Detection Kit 6 x 8-well strips, high profile
VS-IAB112L	Viasure Flu A+B Real Time PCR Detection Kit 12 x 8-well strips, low profile
VS-IAB112H	Viasure Flu A+B Real Time PCR Detection Kit 12 x 8-well strips, high profile
VS-IAB113L	Viasure Flu A+B Real Time PCR Detection Kit 96-well plate, low profile
VS-IAB113H	Viasure Flu A+B Real Time PCR Detection Kit 96-well plate, high profile



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