

VIASURE

Influenza A 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.

Influenza 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 often feel some or all of these symptoms: fever or feeling feverish/chills, cough, sore throat, nasal stuffiness and discharge, myalgia, headaches and anorexia.

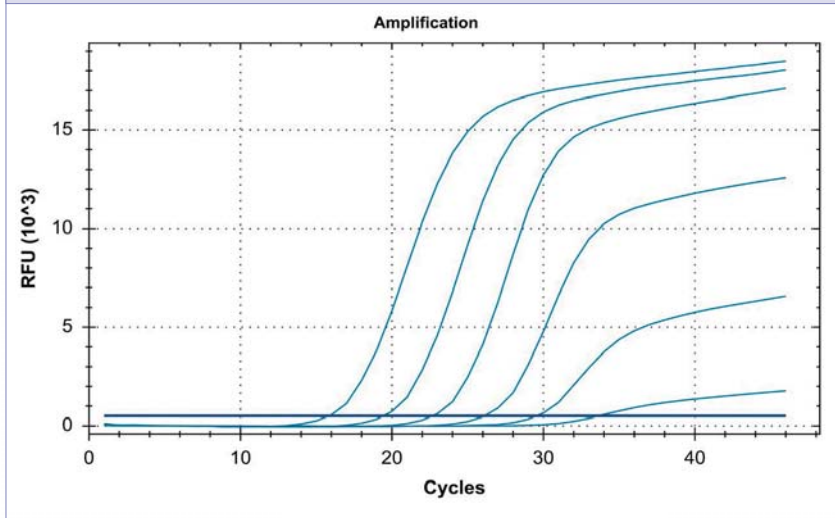
The Influenza viruses can be spread from person to person in two different ways: through the air (large droplets and aerosols from sneezing and coughing), and by direct or indirect contact. Wild waterfowl are believed to be the natural reservoir of Influenza A viruses, which can transmit the virus to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

VIASURE *Influenza A* Real Time PCR Detection Kit is designed for the diagnosis of Influenza A viruses. After RNA isolation, the identification of Influenza A is performed by the use of target specific primers and a fluorescent-labeled probe that hybridizes to a conserved region with the *M1* gene using specific primers and a fluorescent-labeled probe.



Analytical sensitivity

VIASURE Influenza A Real Time PCR Detection Kit has a detection limit of ≥ 100 RNA copies per reaction.



Dilution series of Influenza A (10^7 – 10^2 copies/rxn) template run on the Bio-Rad CFX96 Touch™ Real-Time PCR Detection System.

Components

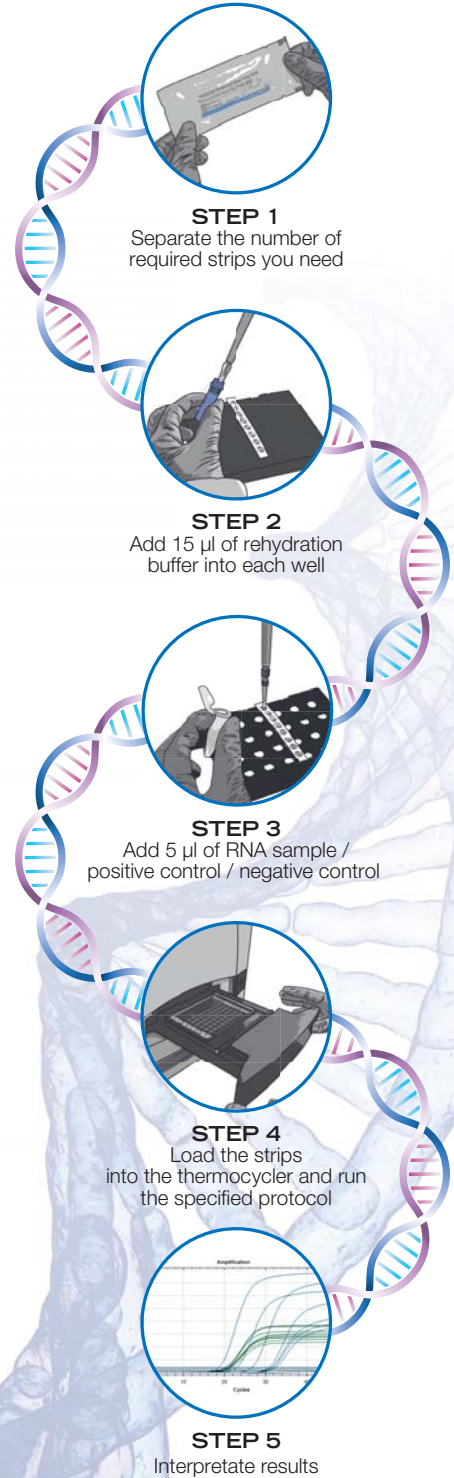
Reagent/Material	Description	Quantity
Influenza A 8-well strips	A mix of enzymes, primers-probes, buffer, dNTPs, stabilizers and Internal control in stabilized format	6/12 x 8-well strip
Influenza A 96-well plate	A mix of enzymes, primers-probes, buffer, dNTPs, stabilizers and Internal control in stabilized format	1 plate
Rehydration Buffer	Solution to reconstitute the stabilized product	1 vial x 1,8 mL
Influenza A 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

Kit References

Reference	Description
VS-YIA106L	Viasure Influenza A Real Time PCR Detection Kit 6 x 8-well strips, low profile
VS-YIA106H	Viasure Influenza A Real Time PCR Detection Kit 6 x 8-well strips, high profile
VS-YIA112L	Viasure Influenza A Real Time PCR Detection Kit 12 x 8-well strips, low profile
VS-YIA112H	Viasure Influenza A Real Time PCR Detection Kit 12 x 8-well strips, high profile
VS-YIA113L	Viasure Influenza A Real Time PCR Detection Kit 96-well plate, low profile
VS-YIA113H	Viasure Influenza A Real Time PCR Detection Kit 96-well plate, high profile

Work Flow

One-step rehydration of wells and add your extracted viral RNA



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