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.
Influenza A Real Time PCR Detection Kit

**Analytical sensitivity**

**VIASURE Influenza A Real Time PCR Detection Kit**

*has a detection limit of ≥ 100 RNA copies per reaction.*

![Amplification graph](image)

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

**Components**

<table>
<thead>
<tr>
<th>Reagent/Material</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Influenza A 8-well strips</strong></td>
<td>A mix of enzymes, primers-probes, buffer, dNTPs, stabilizers and internal control in stabilized format</td>
<td>6/12 x 8-well strip</td>
</tr>
<tr>
<td><strong>Influenza A 96-well plate</strong></td>
<td>A mix of enzymes, primers-probes, buffer, dNTPs, stabilizers and internal control in stabilized format</td>
<td>1 plate</td>
</tr>
<tr>
<td><strong>Rehydration Buffer</strong></td>
<td>Solution to reconstitute the stabilized product</td>
<td>1 vial x 1,8 mL</td>
</tr>
<tr>
<td><strong>Influenza A Positive Control</strong></td>
<td>Non-infectious synthetic lyophilized cDNA</td>
<td>1 vial</td>
</tr>
<tr>
<td><strong>Negative Control</strong></td>
<td>Non template control</td>
<td>1 vial x 1 mL</td>
</tr>
<tr>
<td><strong>Water RNAse/DNase free</strong></td>
<td>Water RNAse/DNase free</td>
<td>1 vial x 1 mL</td>
</tr>
<tr>
<td><strong>Tear-off 8-cap strips</strong></td>
<td>Optical caps for sealing Wells during thermal cycling</td>
<td>6/12 x 8-cap strip</td>
</tr>
<tr>
<td><strong>Shell Frame Grid</strong></td>
<td>Shell Frame Grid</td>
<td>1 or 2</td>
</tr>
</tbody>
</table>

**Kit References**

<table>
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<th>Description</th>
</tr>
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<tbody>
<tr>
<td>VS-YIA106L</td>
<td><em>Viasure Influenza A Real Time PCR Detection Kit 6 x 8-well strips, low profile</em></td>
</tr>
<tr>
<td>VS-YIA106H</td>
<td><em>Viasure Influenza A Real Time PCR Detection Kit 6 x 8-well strips, high profile</em></td>
</tr>
<tr>
<td>VS-YIA112L</td>
<td><em>Viasure Influenza A Real Time PCR Detection Kit 12 x 8-well strips, low profile</em></td>
</tr>
<tr>
<td>VS-YIA112H</td>
<td><em>Viasure Influenza A Real Time PCR Detection Kit 12 x 8-well strips, high profile</em></td>
</tr>
<tr>
<td>VS-YIA113L</td>
<td><em>Viasure Influenza A Real Time PCR Detection Kit 96-well plate, low profile</em></td>
</tr>
<tr>
<td>VS-YIA113H</td>
<td><em>Viasure Influenza A Real Time PCR Detection Kit 96-well plate, high profile</em></td>
</tr>
</tbody>
</table>

**Work Flow**

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

1. **STEP 1** Separate the number of required strips you need
2. **STEP 2** Add 15 μl of rehydration buffer into each well
3. **STEP 3** Add 5 μl of RNA sample / positive control / negative control
4. **STEP 4** Load the strips into the thermocycler and run the specified protocol
5. **STEP 5** Interpretate results

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**Certest Biotec, S.L.**
Pol. Industrial Río Gállego II, Calle J, Nº 1, 50840, Salt Mateo de Gállego, Zaragoza (SPAIN)
www.certest.es

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**Analytical sensitivity**

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

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**Products**

- **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
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- **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

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**Technical Information**

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

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**Manufacturer**

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**Contact Information**

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