



"Ready & Easy-to-use" kits.
Lyophilised product



Transport and storage at room temperature.
Shelf-life: 24 months



CE marked

RESPIRATORY INFECTION
AMB
MULTIPLEX

Adenovirus, Metapneumovirus & Bocavirus

Adenoviruses belong to the Adenoviridae family. There are **more than 50 immunologically distinct human Adenovirus serotypes** that can cause human infections ranging from respiratory disease and conjunctivitis to gastroenteritis. Adenoviruses can be spread due to close personal contact or air transmission by coughing and sneezing. Manifestations include common cold, fever, sore throat (pharyngitis), bronchitis and pneumonia.

- ▶ **Human Metapneumoviruses** belong to the Paramyxoviridae family and are important cause of upper and lower respiratory infection. Clinical symptoms include cough, fever, nasal congestion and shortness of breath, and may progress to bronchiolitis or pneumonia. Metapneumovirus is mainly transmitted by infectious airborne droplets, and it has been reported as the **second most frequently found virus in respiratory infections**, with children younger than five years being the most susceptible to infection.
- ▶ **Human Bocaviruses** belong to the Parvoviridae family and are believed to be **important causative agents of upper and lower respiratory tract infections in young children**. Clinical manifestations range from mild upper respiratory tract infections to bronchiolitis, and lower respiratory tract diseases, such as pneumonia. The common symptoms are fever, cough, acute otitis media, tonsillitis and conjunctivitis, sinusitis and rhinorrhea.

VIASURE *Adenovirus, Metapneumovirus & Bocavirus* Real Time PCR Detection Kit is **designed for the diagnosis of Adenovirus, Metapneumovirus and/or Bocavirus in respiratory samples**. After DNA isolation, the identification of Adenovirus and Bocavirus is performed by the amplification of a conserved region of the hexon gene (Adenovirus) and the NS1 gene (Bocavirus) using specific primers and a fluorescent-labelled probe. After RNA isolation, the detection of Metapneumovirus is done in one step real time format where the reverse transcription and the subsequent amplification of specific target sequence occur in the same reaction well. The isolated RNA target is transcribed generating complementary DNA by reverse transcriptase which is followed by the amplification of a conserved region of N gene of Metapneumovirus.

Adenovirus, Metapneumovirus & Bocavirus

VIASURE Adenovirus, Metapneumovirus & Bocavirus Real Time PCR Detection Kit is designed for specific identification and differentiation of human Adenovirus, Metapneumovirus and Bocavirus in respiratory samples from patients with signs and symptoms of respiratory infection.

This test is intended for use as an aid in the diagnosis of Adenovirus, Metapneumovirus and/or Bocavirus in combination with clinical and epidemiological risk factors.

RNA/DNA is extracted from clinical specimens, multiplied using Real Time amplification and detected using specific primers and a fluorescent reporter dye probe for Adenovirus, Metapneumovirus and Bocavirus.

► Analytical sensitivity

VIASURE Adenovirus, Metapneumovirus & Bocavirus Real Time PCR Detection Kit has a detection limit of ≥ 10 RNA/DNA copies per reaction (figures 1, 2 and 3).

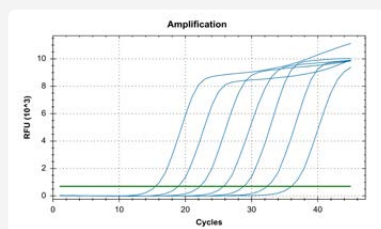


Figure 1. Dilution series of Adenovirus (10^7 – 10^1 copies/rxn) template run on the Bio-Rad CFX96 Touch™ Real-Time PCR Detection System (FAM channel).

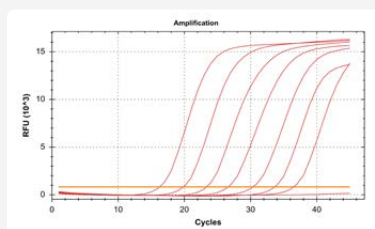


Figure 2. Dilution series of Metapneumovirus (10^7 – 10^1 copies/rxn) template run on the Bio-Rad CFX96 Touch™ Real-Time PCR Detection System (ROX channel).

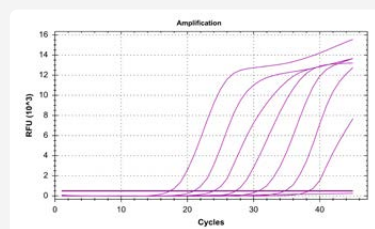


Figure 3. Dilution series of Bocavirus (10^7 – 10^1 copies/rxn) template run on the Bio-Rad CFX96 Touch™ Real-Time PCR Detection System (Cy5 channel).

► References

Viasure Adenovirus, Metapneumovirus & Bocavirus Real Time PCR Detection Kit

6 strips, low profile	VS-AMB106L	6 strips, high profile	VS-AMB106H
12 strips, low profile	VS-AMB112L	12 strips, high profile	VS-AMB112H
96-well plate, low profile	VS-AMB113L	96-well plate, high profile	VS-AMB113H

For more information and use procedure, read the instructions for use included in this product.

certest

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