

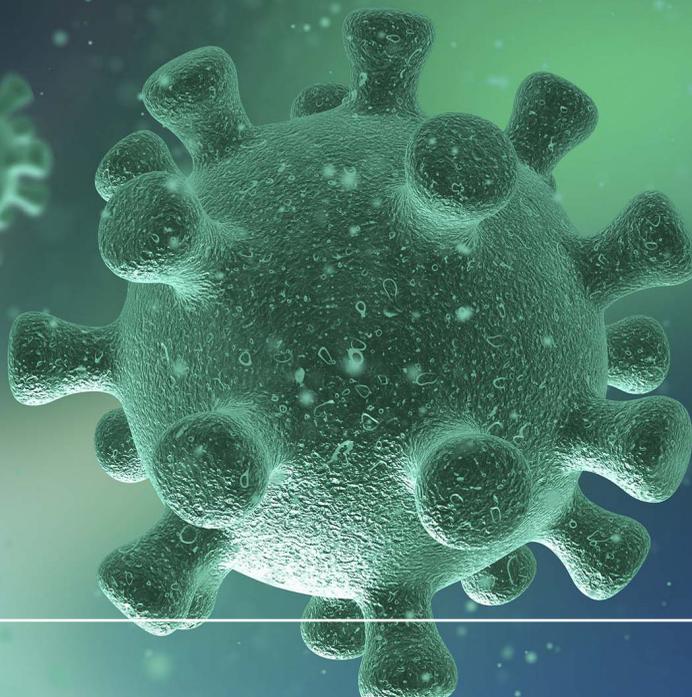
VIASURE Respiratory Panel II Real Time PCR Detection Kit

Respiratory infections are a major global health problem, mainly affecting young children and the elderly in low- and middle-income countries. The causative agents of this type of infections are viral or bacterial, being viruses more frequently involved. The management of the infections is crucial to prevent epidemics or pandemics, so accurate and specific diagnosis tools are required.

Respiratory infection diagnosis can be problematic, as a wide range of pathogens can cause acute respiratory infections presenting with similar clinical syndromes. The diagnosis of these viruses and bacteria is traditionally based on cultures and serology methods, which have special requirements and are time-consuming. Therefore, Real Time PCR is the preferred method of diagnostic testing for respiratory infections considering that it is one of the most sensitive and specific diagnostic tools.

VIASURE Respiratory Panel II Real Time PCR Detection Kit is designed for the diagnosis of RNA/DNA from Flu A and/or Flu B; RSV A and/or B; Influenza A (*H1N1*) *pdm09*, *H3N2*, *H5N1*, and/or *H7N9* subtypes; AdV, MPV and/or BoV; CoV 229E, NL63, OC43 and/or HKU1 strains; Parainfluenza viruses (PIV-1, PIV-2, PIV-3 and PIV-4); and *Chlamydomphila pneumoniae*, *Mycoplasma pneumoniae* and/or *Legionella pneumophila* in respiratory samples.

After DNA/RNA isolation, the identification of AdV, BoV, *Chlamydomphila pneumoniae*, *Mycoplasma pneumoniae* and/or *Legionella pneumophila* is performed by the amplification of a conserved region of the specific genes using specific primers and fluorescent-labelled probes. The detection of RNA viruses (Flu A, Flu B, RSV A, RSV B, Influenza A (*H1N1*) *pdm09*, *H3N2*, *H5N1*, and/or *H7N9* subtypes, MPV, CoV 229E, NL63, OC43 and/or HKU1 strains, and Parainfluenza viruses) is done in one step real time RT 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 specific genes using specific primers and a fluorescent-labelled probes.



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VIASURE Respiratory Panel II 8-well strip contains in each reaction well the following reaction mixes for the detection of the specific targets:

- Flu A + B
- RSV A + B
- Influenza A (H1N1) pdm09, (H5N1), (H3N2), (H7N9)
- Adenovirus, Metapneumovirus & Bocavirus
- Coronavirus 229E, NL63, OC43 & HKU1
- Parainfluenza 1+3
- Parainfluenza 2+4
- Legionella pneumophila, Chlamydomphila pneumoniae & Mycoplasma pneumoniae



▶▶ Analytical sensitivity

VIASURE Respiratory Panel II Real Time PCR Detection Kit has a detection limit of ≥ 10 DNA/RNA copies per reaction Flu A; Influenza A H5N1 and H7N9 subtypes; Parainfluenza 1 and 2; Adenovirus and Metapneumovirus; CoV 229E, NL63, HKU1 and OC43, and Chlamydomphila pneumoniae, Mycoplasma pneumoniae and Legionella pneumophila.

VIASURE Respiratory Panel II Real Time PCR Detection Kit has a detection limit of ≥ 50 RNA copies per reaction for Bocavirus; Flu B; Influenza A (H1N1) pdm09 and H3N2 subtypes; Parainfluenza 3 and 4; and RSV A and RSV B.

▶▶ References:

VIASURE Respiratory Panel II Real Time PCR Detection Kit 12 x 8-well strips, low profile	VS-RP0212L
VIASURE Respiratory Panel II Real Time PCR Detection Kit 12 x 8-well strips, high profile	VS-RP0212H

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



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