



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



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



Validated according to ISO 13485
and CE marked

Mumps, Enterovirus & Parechovirus

- ▶ **The mumps virus** is a RNA virus of the genus *Rubulavirus* in the family *Paramyxoviridae*. Mumps is a viral infection, which in its classical form causes acute parotitis (inflammation of the parotid salivary glands) and less frequently, orchitis, meningitis and pneumonia. Complications include sensorineural deafness, oligospermia, subfertility (rarely) and occasionally death from encephalitis. In the pre-vaccine era, mumps was primarily a childhood illness but epidemics among military recruits were not uncommon. The viral etiology of the disease was identified in 1934 and **live attenuated mumps vaccines have been available since the 1960s**. Most European countries have had routine childhood mumps immunization since the 1980s. Vaccination is now administered as a combination vaccination together with the measles and rubella attenuated virus components.
- ▶ **Enteroviruses** are a group of viruses that cause a number of infectious illnesses which are usually mild. However, if they infect the central nervous system, **they can cause serious illnesses like meningitis or acute flaccid paralysis (AFP)**. The many types of enteroviruses include the viruses that cause polio and hand, foot and mouth disease. Enteroviruses are most commonly spread by coming into contact with secretions like saliva, sputum or mucus of an infected person, or their faeces.
- ▶ **Human parechoviruses (HPeV)** are widespread pathogens belonging to the Picornavirus family. Six genotypes, which have predominantly been isolated from children, are known. Parechovirus is a virus found in the **respiratory and gastrointestinal tract** of humans. Some people carry this around and have no symptoms while others, especially infants, can become unwell with a mild illness but in more severe cases the brain can become inflamed (known as meningitis), they become weak and lose consciousness. When someone is sick with parechovirus, they can spread the virus through infected respiratory secretions, saliva and faeces.

VIASURE Mumps, Enterovirus & Parechovirus Real Time PCR Detection Kit is designed for the diagnosis of Mumps virus, Enterovirus and/or Parechovirus infection swabs specimens (vesicles, cutaneous skin, mouth, saliva, mucosal lesions (for mumps and enterovirus) and nasopharyngeal swabs and plasma samples (for mumps).

Mumps, Enterovirus & Parechovirus

VIASURE Mumps, Enterovirus & Parechovirus Real Time PCR Detection Kit is a real time RT-PCR assay designed for the qualitative detection and differentiation of RNA from Mumps virus, Enterovirus and/or Parechovirus in swabs specimens from vesicles, cutaneous skin, mouth, saliva, mucosal lesions (for Mumps and enterovirus), nasopharyngeal swabs and plasma samples (for Mumps) from patients with suspect of Mumps virus, Enterovirus and/or Parechovirus viral infection, by their healthcare professional (HCP).

Complementary DNA (cDNA) is synthesised and amplified using real time PCR and detected using fluorescent reporter dye probes specific of fusion protein (*F*) gene of Mumps, 5'UTR gene of Enterovirus, and 5'UTR gene of Parechovirus.

► Analytical sensitivity

VIASURE Mumps, Enterovirus & Parechovirus Real Time PCR Detection Kit 10 cDNA copies per reaction for Mumps virus, Enterovirus and Parechovirus, with a positive rate of 95%. (Figures 1, 2 and 3)

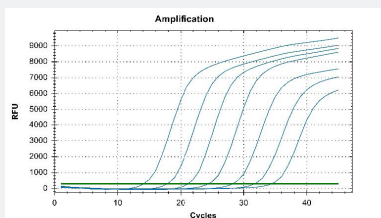


Figure 1.

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

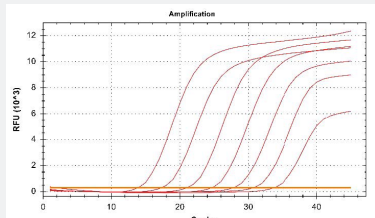


Figure 2.

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

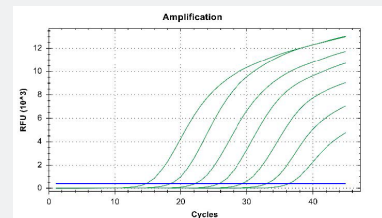


Figure 3.

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

► References - VIASURE Mumps, Enterovirus & Parechovirus Real Time PCR Detection Kit

1 x 8-well strips, low profile VS-MEP101L
6 x 8-well strips, low profile VS-MEP106L
12 x 8-well strips, low profile VS-MEP112L
96-well plate, low profile VS-MEP113L
4 tubes x 24 reactions VS-MEP196T
2 x 4-well strips, Rotor-Gene® VS-MEP101

1 x 8-well strips, high profile VS-MEP101H
6 x 8-well strips, high profile VS-MEP106
12 x 8-well strips, high profile VS-MEP112H
96-well plate, high profile VS-MEP113H
9 x 4-well strips, Rotor-Gene® VS-MEP136
18 x 4-well strips, Rotor-Gene® VS-MEP172

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