Reagent kits for the diagnosis of acute respiratory infections by real-time PCR

- *Human metapneumovirus (hMpV)*
- *Human parainfluenza virus 1,2,3,4 (hPIV 1-4)*
- *Rhinovirus (hRV)*
- *Adenovirus (hAdV)*
- *Bocavirus (hBoV)*
- *Influenza virus A a B (Inf A/B)*
- *human respiratory syncytial virus (hRSV)*
- *SARS-CoV-2*
- *Bordetella species/Bordetella pertussis/Bordetella bronchiseptica*
- *Haemophilus influenzae*
- *Chlamydophila pneumoniae*
- *Mycoplasma pneumoniae*
- *Streptococcus pneumoniae*
- *Legionella pneumoniae*

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Ready-to-use PCR/RT-PCR reaction mixture: simplifying analysis and reducing the likelihood of errors
Universal protocol: all tests in one run
Possibility of automation: improving the quality and quantity of studies
High stability: all components are stored without freezing

Kits for DNA/RNA extraction:

RealBest Sorbitus
RealBest UniMag
RealBest extraction 100

Nasopharyngeal swabs

Preparation:

- preparations irrigating the nasopharynx are used at least 6 hours before collection
- if the nasal cavity is full, it is recommended to clean it

A dry sterile probe is inserted with a slight movement along the outer wall of the nose to a depth of 2-3 cm to the lower tube; Then the probe is slightly lowered down, inserted into the lower nasal passage under the lower nasal concha, a rotational movement is made and taken out along the outer wall of the nose.

Oropharyngeal swabs

Preparation:

• food, medications and rinses at least 2 hours before the procedure

The swab is taken by rotational movements from the surface of the tonsils, palatine arches and the posterior wall of the oropharynx by a dry sterile probe.

Specimen should be taken within 3 days of showing clinical signs of disease and until the start of antiviral treatment

Transport solution (8885/8867) or analogues

Place the working part of the probe in a test tube of transport solution. Rinse the probe thoroughly in the transport solution, press it well against the walls of the tube and remove. Close the tube tightly with the cap.

Storage of biological specimen

- at a temperature of +2 to +8 °C max. 5 days
- at a temperature of -18 až -60 °C and less for max. 2 weeks
- repeated freezing of samples is not recommended

Preparation of biological specimen containing mucus:

1. Add equal volume of 95% ethanol to the sample, mix thoroughly
2. Temper for 10 minutes at +18 to +26 °C
3. Mix thoroughly
4. Use 100 µl of solution for nucleic acid extraction (without trapping mucus)

Bronchoalveolar lavage, mucus, endotracheal aspirate, nasopharyngeal aspirate, biopsy and autopsy material of the lungs may also be used as additional biological specimen for testing

Transport of samples to the laboratory must take place within 3-4 hours of collection (in a thermal bag with a cooling element)