

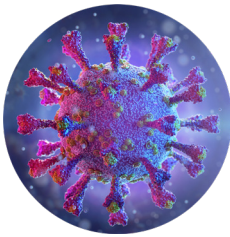
Acute respiratory infections



Acute respiratory infections (ARIs) are a major worldwide health problem associated with high morbidity and mortality, especially among children and elderly. Respiratory diseases are illnesses that affect organs and tissues in the lungs and airway systems, making gas exchange and breathing difficult. The causative agents of ARIs include bacteria, viruses and fungi. Respiratory viruses are considered as major contributors to ARI accounting for about 90% of all illnesses. In some cases, the cause of an ARI is a mixed infection. Although numerous pathogens are associated with ARIs, the clinical manifestations of ARIs are almost identical in all cases, irrespective of a causative agent. Detection of the potential causative agents is the prerequisite for successful therapy.

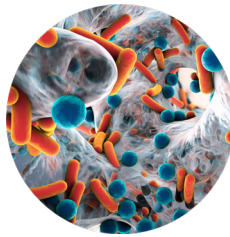
The main causative agents of ARIs

Viruses



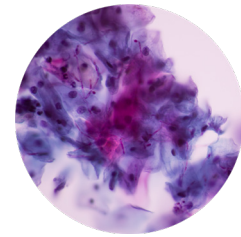
Respiratory syncytial virus
Influenza viruses type A and B
Parainfluenza viruses
Adenoviruses
Metapneumoviruses
Rhinovirus
Bocavirus
Coronaviruses

Bacteria

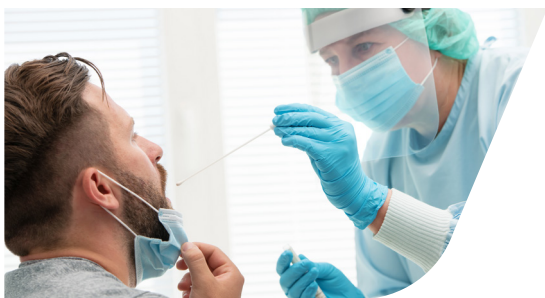


Streptococcus pneumoniae
Haemophilus influenzae
Klebsiella pneumoniae
Streptococcus pyogenes
Staphylococcus aureus
Moraxella catarrhalis
Neisseria meningitidis
Chlamydophila pneumoniae
Legionella pneumophila
Mycoplasma pneumoniae
Bordetella spp.

Fungi



Candida spp
Aspergillus fumigatus
Pneumocystis jirovecii
Cryptococcus neoformans
Cryptococcus gattii
Histoplasma capsulatum
Blastomyces dermatitidis
Coccidioides immitis
Coccidioides posadasii



The goals of differential diagnosis

- Early detection of disease
- Differential diagnosis of causative agents and detection of mixed infection
- Securing proper treatment to reduce overuse of antibiotics
- Predicting the severity of disease progression
- Ensuring adequate hospital environmental hygiene by reducing cross-infection

Kits for detection of ARIs by real-time PCR

Cat. No.	Kit Name	Number of tests
D-5560	RealBest-ARVI RNA hMpV/hPIV2 (human metapneumovirus/human parainfluenza virus type 2)	96
D-5561	RealBest-ARVI RNA hRV (human rhinovirus)	96
D-5562	RealBest-ARVI DNA hAdV/hBoV (human adenovirus B, C, E/human bocavirus)	96
D-5563	RealBest-ARVI RNA hPIV1/3 (human parainfluenza virus type 1/type 3)	96
D-5564	RealBest-ARVI RNA Influenza virus A/B (influenza A virus/influenza B virus)	96
D-5565	RealBest-ARVI RNA hCoV OC43/HKU1 (human coronavirus OC43/HKU1)	96
D-5566	RealBest-ARVI RNA hCoV 229E/NL63 (human coronavirus 229E/NL63)	96
D-5567	RealBest-ARVI RNA hRSV/hPIV4 (human respiratory syncytial virus/human parainfluenza virus type 4)	96
D-5580 CE	RealBest RNA SARS-CoV-2	96
D-5586 CE	RealBest DNA Bordetella species/Bordetella pertussis/Bordetella bronchiseptica	48
D-5590 CE	RealBest DNA Streptococcus pneumoniae (Set 1)	48
D-5592 CE	RealBest DNA Haemophilus influenzae (Set 1)	48
D-5594	RealBest DNA Chlamydomphila pneumoniae (Set 1)	48
D-5596 CE	RealBest DNA Mycoplasma pneumoniae (Set 1)	48
D-5598 CE	RealBest DNA Legionella pneumophila (Set 1)	48



Transport solutions

C-8885 Transport solution (2)
C-8867 Transport solution (M)



Kits for nucleic acid extraction

Manual mode C-8847/C-8848 RealBest Sorbitus, C-8896 RealBest extraction 100
Automatic mode C-8847/C-8848 RealBest Sorbitus, C-8883 RealBest UniMag



Features of RealBest kits

- Kits contain the lyophilized ready-to-use Master Mix into 0.2 ml tubes
- Universal amplification protocol is suitable for all kits
- Noncompetitive Internal Control samples
- The kits are compatible with CFX96 (Bio-Rad, USA) and analogues
- High stability of the kits, no freezing required
- Transportation at room temperature for no more than 10 days is allowed

Signed to print in January, 2023.

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