



ARGENE[®]

REAL TIME PCR ASSAYS - RESPIRATORY RANGE

The power of true experience

CHLAMYDIA PNEUMONIAE

BOCAVIRUS

INFLUENZA B

BORDETELLA PERTUSSIS

PARAINFLUENZA VIRUS

ADENOVIRUS

ENTEROVIRUS

BORDETELLA PARAPERTUSSIS

RESPIRATORY SYNCYTIAL VIRUS

LEGIONELLA PNEUMOPHILA

INFLUENZA A

BORDETELLA PARAPERTUSSIS

HUMAN METAPNEUMOVIRUS

RHINOVIRUS

HUMAN CORONAVIRUS

MYCOPLASMA PNEUMONIAE



PIONEERING DIAGNOSTICS

OPTIMIZE THE MANAGEMENT OF RESPIRATORY INFECTIONS

CLINICAL CONTEXT

Acute respiratory infections are responsible for numerous hospitalizations of children and are mainly caused by bacterial or viral pathogens.

The most serious and potentially life-threatening pneumopathies are mainly found in young children, in the elderly, in immunocompromised or weakened individuals (chronic disease, cancer, intensive care unit).

Establishing a fast and reliable emergency diagnosis is essential for the management of the patients (with an adapted antibiotherapy for example) and to prevent the spread of infection.

Since symptomatologies are similar, the identification of infectious agents needs appropriate diagnostic testing. Conventional culture methods are not conclusive, because some viruses and intracellular bacteria cannot be cultured or can only be cultured with extreme difficulty.

Multiplex detection allows the diagnosis of dual or even triple infections, which can have consequences on the severity of the disease and on the therapeutic strategy.

Respiratory pathogens have variable seasonalities : some are present throughout the year whereas others are found only during the epidemic outbreaks.

Hence, diagnostic strategies can be adapted to the season (winter / summer workflow): searching for the most likely pathogens can be considered in 1st intention, the remaining pathogens being searched for systematically in 2nd intention.

Rapid diagnostic tests reduce hospital expenses and avoid the risk of inappropriate therapy.

RESPIRATORY ARGENE® RANGE

DETECTION OF THE DNA PATHOGENS

- AdV/hBoV R-GENE®
- BORDETELLA R-GENE®
- Bordetella parapertussis R-GENE®
- Chla/Myco pneumo R-GENE®
- Legio pneumo/Cc R-GENE®

Content of the kits

- Specific amplification premix
- Negative control (molecular grade water)
- Pathogen-specific positive control

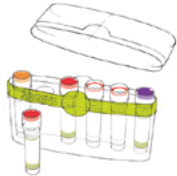


DETECTION OF THE RNA PATHOGENS

- Influenza A/B R-GENE®
- RSV/hMPV R-GENE®
- Rhino&EV/Cc R-GENE®
- HCoV/HPIV R-GENE®

Content of the kits

- Reverse Transcriptase
- Specific amplification premix
- Negative control (molecular grade water)
- Pathogen-specific positive control



RESPIRATORY ARGENE® FEATURES

GET BENEFITS OF ARGENE® SIMPLICITY

- Complete kits
- Ready-to-use reagents
- One step RT PCR for RNA targets
- Same pipetting procedure
- Common extraction protocol & amplification program for DNA and RNA pathogens

EXPERIENCE A SEAMLESS INTEGRATION

- Multi-specimens validated
- Multi-extraction platforms validated
- Multi-amplification platforms validated

EMPOWER YOUR LAB EFFICIENCY

- Standardized assays with the controls included in the kits
- Harmonized extraction and amplification protocols
- Multiple target detection from one sample
- "À la carte" testing : Possibility to test for one up to more than 40 pathogens
- Possibility to search for viruses and bacteria together or separately

DESIGNATION	Influenza A/B R-GENE® ref. 71-040	RSV/hMPV R-GENE® ref. 71-041	Rhino&EV/Cc R-GENE® ref. 71-042	AdV/hBoV R-GENE® ref. 71-043	Chla/Myco pneumo R-GENE® ref. 71-044	HCoV/HPIV R-GENE® ref. 71-045	Legio pneumo/ Cc R-GENE® ref. 71-046	BORDETELLA R-GENE® ref.: 69-011B	Bordetella parapertussis R-GENE® ref.: 71-012
Principle of the Test	Duplex Detection of Respiratory Pathogens by Real-time PCR								
Technology	5' nuclease Technology TaqMan®								
Gene Target	<ul style="list-style-type: none">• Influenza A: M Gene• Influenza B: M Gene	<ul style="list-style-type: none">• RSV: N Gene• hMPV: M Gene	<ul style="list-style-type: none">• Rhino&EV: 5'Non Coding Region• Cell control: HPRT1 gene	<ul style="list-style-type: none">• Adenovirus: Hexon Gene• Bocavirus: NS1 and VP1 Genes	<ul style="list-style-type: none">• <i>C. Pneumoniae</i>: Gene OMP2• <i>M. Pneumoniae</i>: P1 Gene	<ul style="list-style-type: none">• Parainfluenza: N Gene HN Gene NP Gene P Gene• HCoV: N Gene	<ul style="list-style-type: none">• Legionella pneumophila: Mip Gene• Cell control: HPRT1 Gene	IS481	IS1001
Detected pathogens	Influenza A/ Influenza B	RSV A, RSV B, HMPV A, HMPV B	Rhinovirus A,B,C Enterovirus A,B,C,D	AdV A,B,C,D,E,F,G HBoV 1,2,3,4	<i>Chlamydia pneumoniae</i> <i>Mycoplasma pneumoniae</i>	Parainfluenza 1,2,3,4 HCoV 229E, NL63, HKU1, OC43	<i>Legionella pneumophila</i> serogroups 1 to 15	<i>Bordetella pertussis</i>	<i>Bordetella parapertussis</i>
Specimen	Respiratory Samples*								
Controls included	Positive Control, Negative Control, Cell Control*								
Result Within	1h30 after extraction								
Number of Tests	60 tests								
Validated Equipments*	Extraction <ul style="list-style-type: none">• EMAG®• NUCLISENS® easyMAG®• QIAsymphony SP			Amplification <ul style="list-style-type: none">• ABI 7500 Fast, ABI 7500 Fast Dx• LightCycler 480 (System II)• Rotor-Gen^e Q• CFX96					
Status	For <i>in vitro</i> diagnostic use, CE marking in Europe - Please inquire								

*Depends on the assay, please inquire

ORDERING INFORMATION

• ARGENE® complete amplification kits

PRODUCT NAME	FEATURES	REFERENCE	NUMBER OF TESTS
Influenza A/B R-GENE®	Real-Time Detection kit	Ref. 71-040	60 tests
RSV/hMPV R-GENE®	Real-Time Detection kit	Ref. 71-041	60 tests
Rhino&EV/Cc R-GENE®	Real-Time Detection kit	Ref. 71-042	60 tests
AdV/hBoV R-GENE®	Real-Time Detection kit	Ref. 71-043	60 tests
Chla/Myco pneumo R-GENE®	Real-Time Detection kit	Ref. 71-044	60 tests
HCoV/HPIV R-GENE®	Real-Time Detection kit	Ref. 71-045	60 tests
Legio pneumo/Cc R-GENE®	Real-Time Detection kit	Ref. 71-046	60 tests
<i>BORDETELLA</i> R-GENE®	Real-Time Detection kit	Ref. 69-011B	60 tests
<i>Bordetella parapertussis</i> R-GENE®	Real-Time Detection kit	Ref. 71-012	60 tests

• ARGENE® complementary products

PRODUCT NAME	FEATURES	REFERENCE	NUMBER OF TESTS
CELL Control R-GENE®	Processing control	Ref. 71-106	100 tests
DICO Extra R-GENE® *	Processing control	Ref. 71-101	100 tests
RICO Extra R-GENE® *	Processing control	Ref. 71-105	100 tests
<i>Influenza A_(M)</i> Group & H1N1 2009 R-GENE®	Amplification premix	Ref. 71-300	60 tests
Quanti FluA QS R-GENE® *	Quantification Standards	Ref. 68-006	30 tests

*For research use only