

EBV

VZV

HHV6

AdV

Products for

RSV

infectious

HSV

IAVAB

hMPV

disease

CMV



ARGENE 


BIOMÉRIEUX

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COMPLETE KITS

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Real-time PCR R-gene™ kits



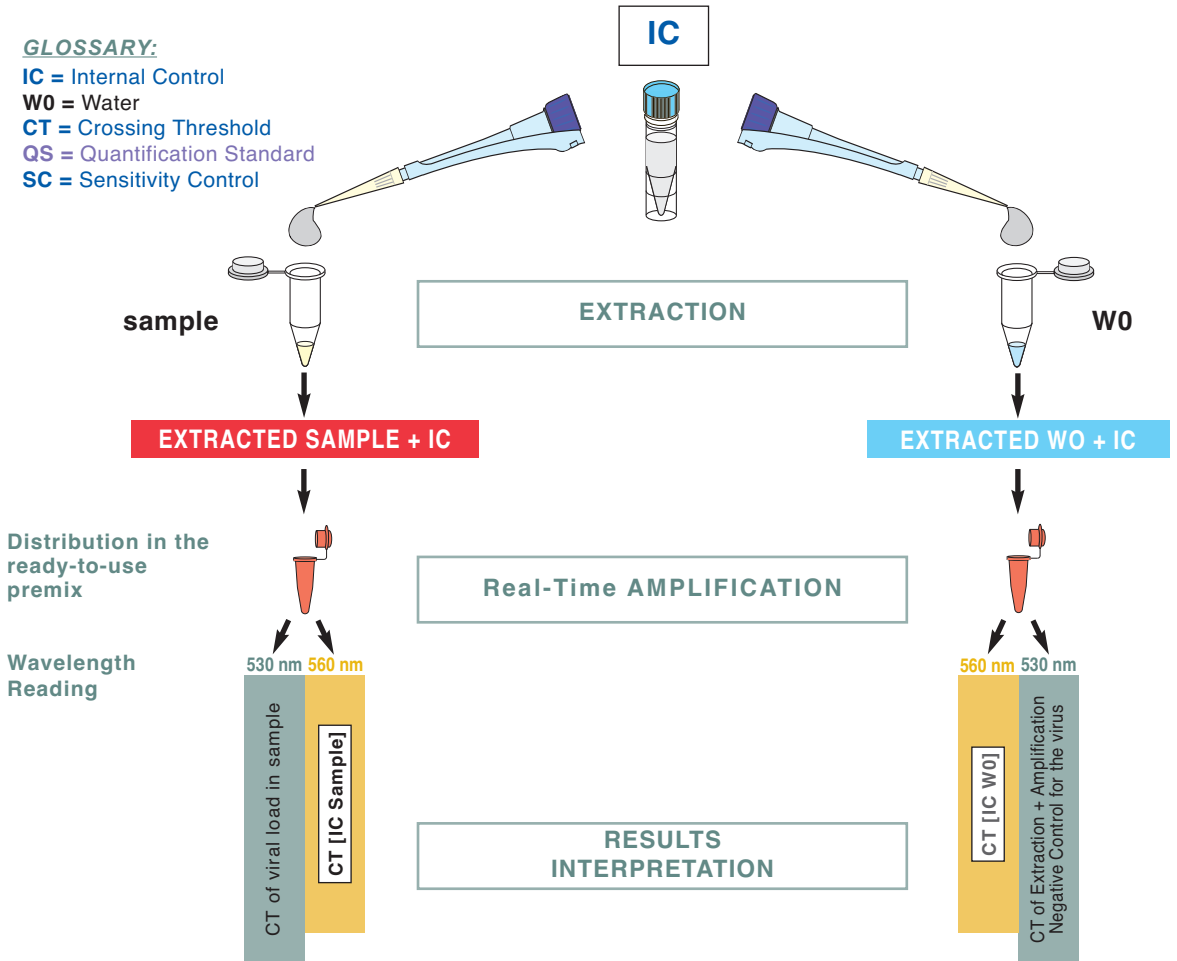
Argene manufactures its reagents in compliance with cGMP and ISO 13485 for optimal product quality and consistent results. Argene has entered into a broad license agreement with F. Hoffman-La Roche Ltd and Roche Molecular Systems, Inc, covering real-time PCR Technology for the detection of human pathogens. Therefore the purchase of these products grants the purchaser rights under certain Roche patents (among others under the so-called 5' Nuclease Detection patents and Chemically-Modified Hot Start Enzymes patents) to use them solely for human in vitro diagnostic testing services. No general patent or other license of any kind other than this specific right of use from purchase is granted hereby by Argene.

For in vitro diagnostic use, CE marking in Europe - Please inquire.
USA: For research use only. Not for use in diagnostic procedures.

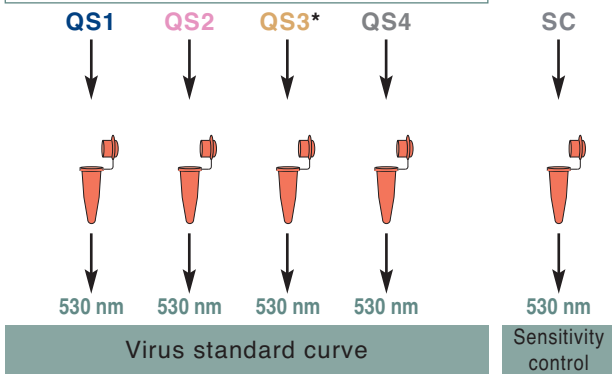
Principle of real-time PCR R-gene™ kits

GLOSSARY:

- IC** = Internal Control
- W0** = Water
- CT** = Crossing Threshold
- QS** = Quantification Standard
- SC** = Sensitivity Control



Principle of the quantification using QS



*Use only **QS3** for imported standard curve.

Sample interpretation

$$CT [IC_{sample}] \leq CT [IC W0] + 3$$

The sample is correctly extracted and does not contain inhibitory agents of amplification.

CMV HHV6,7,8 R-gene™ - Quantification Assay

**USE FOR** Real-time PCR for CMV and HHV-6 quantification, HHV-7 and HHV-8 detection.

- CMV HHV6,7,8 R-gene™ - Quantification COMPLETE kit 140 tests 69-100
- CMV HHV6,7,8 R-gene™ - Quantification kit 140 tests 69-100B

Herpesviruses are DNA viruses. CMV, HHV-6, HHV-7 and HHV-8 are characterized by high seroprevalency (range between 50% to 100%, depending on the geographical site) and are responsible for a wide range of pathologies. The primary infection commonly occurs during young childhood. The viral dissemination in blood may lead to benign and rare clinical signs. CMV, HHV-6, HHV-7 and HHV-8 establish a lifelong dormant infection. Often the virus may reactivate in case of an immunosuppression. The severity of infection depends on the immune status of the host (e.g. AIDS patients and organ transplant patients are commonly known as fragile hosts).

CMV is associated with neurological diseases, pneumopathy and in extreme cases with high mortality in immunocompromised patients. HHV-6 is also very likely to be involved in opportunistic infections in immunocompromised patients. HHV-7 acts the same way as HHV-6. HHV-6 and HHV-7 most likely increases the secondary CMV infections by a process of cross reactivation. When primary infection occurs, HHV-6 is also suspected to be responsible for mononucleosis syndrome, lymphadenopathy and hepatitis. HHV-8 is associated with lymphoproliferative diseases such as Kaposi sarcoma, Castleman disease and some lymphomas.

The **CMV HHV6,7,8 R-gene™** kit is designed to measure the viral load of CMV, HHV-6 and the detection of HHV-7 and HHV-8 by real-time PCR after viral DNA extraction. Combined with **HHV8 QS r-gene™** (ref.: 68-008), **CMV HHV6,7,8 R-gene™** kit enables HHV-8 quantification. User-friendly and complete, the **CMV HHV6,7,8 R-gene™** kit is suitable for any laboratory. Several types of specimen and DNA purification systems (automatic and manual) have been validated with the kit. Extracted DNA is then amplified and detected by real-time PCR on the common available platforms. Thanks to a general amplification program within the **R-gene™** range of products, the sample analysis can be simultaneously run for the other viruses: CMV with **CMV R-gene™** kit (ref.: 69-003), HSV-1, HSV-2 and VZV with **HSV1 HSV2 VZV R-gene™** kit (ref.: 69-004), EBV with **EBV R-gene™** kit (ref.: 69-009), BKV with **BK Virus R-gene™** kit (ref.: 69-013) and Adenovirus with **ADENOVIRUS R-gene™** kit (ref.: 69-010). Results are validated with different controls, including an extraction control, all provided with the kit.

Results are useful for the diagnosis of primary infection and virus reactivation as well as for the management of patient therapy.



CMV HHV6,7,8 R-gene™

PRODUCT INFORMATION

DETECTION AND QUANTIFICATION COMPLETE KIT

69-100

PRINCIPLE OF THE TEST	GENOMIC DETECTION AND QUANTIFICATION OF CMV AND HHV-6. GENOMIC IDENTIFICATION OF HHV-7 AND HHV-8.	
TECHNOLOGY	REAL-TIME PCR. 5' NUCLEASE TECHNOLOGY TAQMAN®.	
GENE TARGET	CMV: GENE CODING FOR ppUL83 PROTEIN. HHV-6: U57 GENE; HHV-7: U42 GENE; HHV-8: ORF26 GENE.	
SPECIMEN	WHOLE BLOOD, PLASMA, CSF, AMNIOTIC FLUID, SAMPLES COMING FROM GUTHRIE TEST, SERUM, URINE, BAL, BIOPSIES.	
LIMIT OF DETECTION	CMV: 1 COPY/PCR. HHV-6: < 3 COPIES/PCR. HHV-8: 1 COPY/PCR.	CMV: 50 COPIES/ML. HHV-6: < 156 COPIES/ML. HHV-8: < 40 COPIES/ML.
DYNAMIC RANGE OF QUANTIFICATION	UP TO 10 ⁷ COPIES/ML.	
CONTROLS INCLUDED	INHIBITION AND EXTRACTION CONTROL, SENSITIVITY CONTROL, NEGATIVE CONTROL.	
RESULT WITHIN	1 H. 15 EXTRACTION STEP NOT INCLUDED.	
REPORTING UNITS	NUMBER OF VIRAL COPIES/ML OF SAMPLE.	
NUMBER OF TESTS	140 TESTS.	
KIT STORAGE	-18°C/-22°C FOR REF.: 69-100B (QUANTIFICATION KIT). +2°C/+8°C FOR REF.: 67-000 (DNA EXTRACTION KIT, AVAILABLE WITH THE COMPLETE KIT).	
NECESSARY EQUIPMENT	EXTRACTION: <ul style="list-style-type: none"> - NucliSens® EASYMAG™ (BIOMÉRIEUX). - QIAAMP DNA BLOOD MINI KIT (QIAGEN). - QIACUBE, QIASYMPHONY SP (QIAGEN). - MAGNA PURE COMPACT® (ROCHE DIAGNOSTICS). - MAGNA PURE LC SYSTEM® (ROCHE DIAGNOSTICS). - M2000SP™ (ABBOTT). - VERSANT kPCR MOLECULAR SYSTEM SP (SIEMENS). - EZ1 ADVANCED AND EZ1 ADVANCED XL (QIAGEN). AMPLIFICATION: <ul style="list-style-type: none"> - APPLIED BIOSYSTEMS™. - LIGHTCYCLER®. - ROTOR-GENE™. - DNA ENGINE OPTICON®, I-CYCLER, DX REAL-TIME SYSTEM (BIO-RAD). - STRATAGENE®. - VERSANT kPCR MOLECULAR SYSTEM AD (SIEMENS). 	
STATUS	FOR <i>IN VITRO</i> DIAGNOSTIC USE, CE MARKING IN EUROPE - PLEASE INQUIRE. USA: FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.	

CMV R-gene™ - Quantification Assay



USE FOR CMV genome quantification by real-time PCR.

- CMV R-gene™ - Quantification COMPLETE kit
- CMV R-gene™ - Quantification kit

90 tests 69-003
90 tests 69-003B

The human cytomegalovirus (HCMV) is a double stranded enveloped DNA virus of the *Herpesviridae* family. The poorer the socio-economic conditions, the higher the prevalence (50 to 100%). After the primary infection, HCMV remains in its latent state in the host and may be the cause of recurrent secondary infections, during chronic or transient immunosuppression, by reactivation of the endogenous genome or by reinfection with a new strain. The consequences of the HCMV infection mainly depend on the cell immunity of the subject involved. Most often asymptomatic in healthy subjects, it may lead to serious damages in immunosuppressed patients and in the foetus or newborn child after *in utero* transmission. The infection with HCMV after organ or bone marrow allograft: HCMV is the main infectious agent after bone marrow allograft and organ transplant. Infection with HCMV is observed, on the average, in two-thirds of all recipients, regardless of the type of transplant. It occurs in the absence of prophylactic treatment between the 1st and 4th month after the graft. It is symptomatic in two-thirds of cases of primary infection, in 40% of cases of reinfection and less than 20% of the reactivations. Prolonged fever may be the only clinical manifestation of the infection or comprise complications of thrombo-leukopenia, cytolytic hepatitis, gastric disorders or cystitis. Chorioretinitis is rare. Interstitial pneumonitis is a major complication of a marrow graft. It occurs in about 20% of all recipients and its evolution, without treatment, is dangerous (90% mortality). In addition, infection with HCMV is a factor that triggers or accelerates the rejection or GVH (reaction of the graft against the host). In addition, it aggravates the immunosuppression and favours superinfections. Infection with HCMV during AIDS: the incidence of infections with HCMV was decreased by 80% since the beginning of highly active anti-retroviral treatments that provide at least partial immune restoration. Clinical manifestations occur at a major stage of immunosuppression, characterised by an average number of CD4+ T lymphocytes under 50/mm³. Retinitis, observed before the era of the tri-therapies, in about 15 to 35% of the patients, remains the most common clinical manifestation. Peptic ulcers are the second leading clinical manifestations. Multiple types of neurological damage have been described although the incidence has not been established. Pneumopathy is exceptional. The **CMV R-gene™** kit is designed to measure the viral load of CMV by real-time PCR after viral DNA extraction. User friendly and complete, the **CMV R-gene™** kit is suitable for any laboratory. Several types of specimen and DNA purification systems (automatic and manual) have been validated with the kit. Extracted DNA is then amplified and detected by real-time PCR on the common available platforms. Thanks to a general amplification program within the **R-gene™** range of products, the sample analysis can be simultaneously run for the other viruses: EBV with **EBV R-gene™** kit (ref.: 69-002), HSV-1, HSV-2 and VZV with **HSV1 HSV2 VZV R-gene™** kit (ref.: 69-004), CMV, HHV-6, HHV-7 and HHV-8 with **CMV HHV6,7,8 R-gene™** kit (ref.: 69-100), BKV with **BK Virus R-gene™** kit (ref.: 69-013) and Adenovirus with **ADENOVIRUS R-gene™** kit (ref.: 69-010). Results are validated with different controls, including an extraction control, all provided with the kit. Results are useful for the diagnosis of primary infections and virus reactivation as well as for the management of patient therapy.



CMV R-GENE™

PRODUCT INFORMATION

DETECTION AND QUANTIFICATION COMPLETE KIT

69-003

PRINCIPLE OF THE TEST	GENOMIC DETECTION AND QUANTIFICATION OF CMV.	
TECHNOLOGY	REAL-TIME PCR. 5' NUCLEASE TECHNOLOGY TAQMAN®.	
GENE TARGET	CMV: GENE CODING FOR ppUL83 PROTEIN.	
SPECIMEN	WHOLE BLOOD, PLASMA, CSF, AMNIOTIC FLUID, SAMPLES COMING FROM GUTHRIE TEST, SERUM, URINE, BAL, BIOPSIES.	
LIMIT OF DETECTION	CMV: 1 COPY/PCR.	CMV: 50 COPIES/ML.
DYNAMIC RANGE OF QUANTIFICATION	UP TO 10 ⁷ COPIES/ML.	
CONTROLS INCLUDED	INHIBITION AND EXTRACTION CONTROL, SENSITIVITY CONTROL, NEGATIVE CONTROL.	
RESULT WITHIN	1 H. 15 EXTRACTION STEP NOT INCLUDED.	
REPORTING UNITS	NUMBER OF VIRAL COPIES/ML OF SAMPLE.	
NUMBER OF TESTS	90 TESTS.	
KIT STORAGE	-18°C/-22°C FOR REF.: 69-003B (QUANTIFICATION KIT). +2°C/+8°C FOR REF.: 67-000 (DNA EXTRACTION KIT, AVAILABLE WITH THE COMPLETE KIT).	
NECESSARY EQUIPMENT	EXTRACTION: <ul style="list-style-type: none"> - NUCLESIS® EASYMAG™ (BIOMÉRIEUX). - QIAAMP DNA BLOOD MINI KIT (QIAGEN). - QIACUBE, QIASYMPHONY SP (QIAGEN). - MAGNA PURE COMPACT® (ROCHE DIAGNOSTICS). - MAGNA PURE LC SYSTEM® (ROCHE DIAGNOSTICS). - M2000SP™ (ABBOTT). - VERSANT KPCR MOLECULAR SYSTEM SP (SIEMENS). - EZ1 ADVANCED AND EZ1 ADVANCED XL (QIAGEN). AMPLIFICATION: <ul style="list-style-type: none"> - APPLIED BIOSYSTEMS™. - LIGHTCYCLER®. - ROTOR-GENE™. - DNA ENGINE OPTICON®, I-CYCLER, DX REAL-TIME SYSTEM (BIO-RAD). - STRATAGENE®. - VERSANT KPCR MOLECULAR SYSTEM AD (SIEMENS). 	
STATUS	FOR <i>IN VITRO</i> DIAGNOSTIC USE, CE MARKING IN EUROPE - PLEASE INQUIRE. USA: FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.	

ADENOVIRUS R-gene™

69-010 

ADENOVIRUS R-gene™ - Quantification Assay

 Related publications**USE FOR** ADENOVIRUS genome quantification by real-time PCR.

- ADENOVIRUS R-gene™ - Quantification COMPLETE kit
- ADENOVIRUS R-gene™ - Quantification kit

90 tests

69-010

90 tests

69-010B

Adenovirus infections are common, have a worldwide distribution and occur throughout the year. Over the last few years, adenoviruses have been increasingly recognized as significant viral pathogens with high morbidity and mortality among immunocompromised patients. Clinical manifestations in immunocompromised patients include pneumonia, hepatitis, hemorrhagic cystitis, colitis, pancreatitis, meningoencephalitis and disseminated disease. These clinical manifestations are depending on the underlying disease, affected organ system, patient age, and serotype of the virus. In case of a suspected infection by adenovirus, blood specimens should be tested by PCR, since the detection of adenovirus DNA from blood samples is usually significant for a disseminating disease. Surveillance in blood samples is currently a common practice among hematopoietic stem cell transplant (HSCT) recipients, especially in the pediatric population. The virus can be detected in blood 2-3 weeks before developing clinical symptoms, which offers the opportunity for intervention. Follow-up and prognosis can be validated more reliable with quantitative PCR methods. Increased viral load measurements are associated with increased risk of death. Amplification and detection of the viral genome by real-time PCR is highly-sensitive, and is particularly applicable in case of a non-infectious virus. In this case the viral load is too low to be detected by cell culture and results are needed rapidly. It is recommended to analyse the viral kinetics for each patient. The **ADENOVIRUS R-gene™** kit is designed to measure the viral load of Adenoviruses by real-time PCR after viral DNA extraction. **ADENOVIRUS R-gene™** is a user-friendly and complete kit and therefore ideal for routine diagnostics. Many types of specimen and numerous DNA purification systems (automatic and manual) have been validated with the kit. Extracted DNA is then amplified and detected by real-time PCR on the common available platforms.

Thanks to a general amplification program with the entire range of **R-gene™** products, the sample analysis can be simultaneously analyzed with the following other parameters: HSV1, HSV2, VZV with **HSV1 HSV2 VZV R-gene™** kit (ref.: 69-004B), CMV with **CMV R-gene™** kit (ref.: 69-003B), CMV, HHV-6, HHV-7 and HHV-8 with **CMV HHV6,7,8 R-gene™** kit (ref.: 69-100B), and EBV with **EBV R-gene™** (ref.: 69-002B).

Results are validated with various controls, including an extraction control, which are all provided with the kit. Results are valid for the diagnosis of early disseminated adenovirus infections as well as for the management of patient therapy.



ADENOVIRUS R-GENE™

PRODUCT INFORMATION

DETECTION AND QUANTIFICATION COMPLETE KIT

69-010

PRINCIPLE OF THE TEST	GENOMIC DETECTION AND QUANTIFICATION OF ADENOVIRUSES.	
TECHNOLOGY	REAL-TIME PCR. 5' NUCLEASE TECHNOLOGY TAQMAN®.	
GENE TARGET	HEXON GENE.	
SPECIMEN	PLASMA, WHOLE BLOOD, STOOL, BAL, URINE, NASOPHARYNGEAL SPECIMEN, BIOPSIES, CSF.	
LIMIT OF DETECTION	WHOLE BLOOD = 8 COPIES/PCR. NASAL SECRETION = 10 COPIES/PCR.	WHOLE BLOOD = 200 COPIES/ML. NASAL SECRETION = 261 COPIES/ML.
DYNAMIC RANGE OF QUANTIFICATION	UP TO 5x10 ⁶ COPIES/ML.	
CONTROLS INCLUDED	INHIBITION AND EXTRACTION CONTROL, SENSITIVITY CONTROL, NEGATIVE CONTROL.	
RESULT WITHIN	1 H. 15 EXTRACTION STEP NOT INCLUDED.	
REPORTING UNITS	NUMBER OF VIRAL COPIES/ML OF SAMPLE.	
NUMBER OF TESTS	90 TESTS.	
KIT STORAGE	-18°C/-22°C FOR REF.: 69-010B (QUANTIFICATION KIT). +2°C/+8°C FOR REF.: 67-000 (DNA EXTRACTION KIT, AVAILABLE WITH THE COMPLETE KIT).	
NECESSARY EQUIPMENT	EXTRACTION: <ul style="list-style-type: none"> - NUCLISENS® EASYMAG™ (BIOMÉRIEUX). - QIAAMP DNA BLOOD MINI KIT (QIAGEN). - QIAAMP DNA STOOL MINI KIT (QIAGEN). - QIACUBE, QIASYMPHONY SP (QIAGEN). - MAGNA PURE COMPACT® (ROCHE DIAGNOSTICS). - MAGNA PURE LC SYSTEM® (ROCHE DIAGNOSTICS). - BioROBOT M48 (QIAGEN). - M2000sp™ (ABBOTT). - VERSANT kPCR MOLECULAR SYSTEM SP (SIEMENS). - EZ1 ADVANCED AND EZ1 ADVANCED XL (QIAGEN). AMPLIFICATION: <ul style="list-style-type: none"> - APPLIED BIOSYSTEMS™. - LIGHTCYCLER®. - ROTOR-GENE™. - SMARTCYCLER®. - STRATAGENE®. - VERSANT kPCR MOLECULAR SYSTEM AD (SIEMENS). - DX REAL-TIME SYSTEM (BIO-RAD). 	
STATUS	FOR <i>IN VITRO</i> DIAGNOSTIC USE, CE MARKING IN EUROPE - PLEASE INQUIRE. USA: NOT AVAILABLE.	

EBV R-gene™ - Quantification Assay

 Related publications

USE FOR EBV genome quantification by real-time PCR.

- | | | |
|---|----------|---------|
| • EBV R-gene™ - Quantification COMPLETE kit | 90 tests | 69-002 |
| • EBV R-gene™ - Quantification kit | 90 tests | 69-002B |

Epstein-Barr (EBV) virus is an ubiquitous herpesvirus which infects the major part of human population (seroprevalence is 95%). After a prime infection (transmission by saliva), EBV remains latent in B cells. Periodically, EBV can reactivate in healthy individuals. This reactivation occurs with a replication of EBV in the oropharynx and does not have any clinical signs.

EBV is a causative agent of infectious mononucleosis. EBV is also involved in the pathogenesis of several cancers such as Burkitt's lymphoma, Hodgkin's lymphoma, and nasopharyngeal carcinoma. In immunosuppressed individuals, EBV may lead to lymphoproliferation of B cells. Indeed, the main characteristic of EBV is to make the B lymphocytes multiply and to subsequently produce a malignant lymphoma. In this context, the measure of the EBV viral load is very significant.

The **EBV R-gene™** kit is designed to measure the viral load of EBV by real-time PCR after viral DNA extraction. User friendly and complete, the **EBV R-gene™** kit is suitable for any laboratory.

Several types of specimen and DNA purification systems (automatic and manual) have been validated with the kit. Extracted DNA is then amplified and detected by real-time PCR on the common available platforms.

Thanks to a general amplification program within the **R-gene™** range of products, the sample analysis can be simultaneously run for the other viruses: CMV with **CMV R-gene™** kit (ref.: 69-003), HSV-1, HSV-2 and VZV with **HSV1 HSV2 VZV R-gene™** kit (ref.: 69-004), CMV, HHV-6, HHV-7 and HHV-8 with **CMV HHV6,7,8 R-gene™** kit (ref.: 69-100), BKV with **BK Virus R-gene™** kit (ref.: 69-013) and ADENOVIRUS with **Adenovirus R-gene™** kit (ref.: 69-010).

Results are validated with different controls, including an extraction control, all provided with the kit. Results are useful for the diagnosis of primary infections and virus reactivation as well as for the management of patient therapy.



EBV R-GENE™

PRODUCT INFORMATION

DETECTION AND QUANTIFICATION COMPLETE KIT

69-002

PRINCIPLE OF THE TEST	GENOMIC DETECTION AND QUANTIFICATION OF EBV.
TECHNOLOGY	REAL-TIME PCR. 5' NUCLEASE TECHNOLOGY TAQMAN®.
GENE TARGET	BXLF1 GENE CODING FOR THYMIDINE KINASE.
SPECIMEN	WHOLE BLOOD, CSF, PLASMA, BAL, BIOPSIES, TISSUE, CELL CULTURE.
LIMIT OF DETECTION	4 COPIES/PCR.
DYNAMIC RANGE OF QUANTIFICATION	UP TO 5 000 000 COPIES/ML.
CONTROLS INCLUDED	INHIBITION AND EXTRACTION CONTROL, SENSITIVITY CONTROL, NEGATIVE CONTROL.
RESULT WITHIN	1 H. 15 EXTRACTION STEP NOT INCLUDED.
REPORTING UNITS	NUMBER OF VIRAL COPIES/ML OF SAMPLE.
NUMBER OF TESTS	90 TESTS.
KIT STORAGE	-18°C/-22°C FOR REF.: 69-002B (QUANTIFICATION KIT). +2°C/+8°C FOR REF.: 67-000 (DNA EXTRACTION KIT, AVAILABLE WITH THE COMPLETE KIT).
NECESSARY EQUIPMENT	EXTRACTION: - NUCLISens® EASYMAG™ (BIOMÉRIEUX). - QIAAMP DNA BLOOD MINI KIT (QIAGEN). - QIAAMP MINELUTE VIRUS SPIN KIT (QIAGEN). - QIACUBE, QIASYMPHONY SP (QIAGEN). - MAGNA PURE COMPACT® (ROCHE DIAGNOSTICS). - MAGNA PURE LC SYSTEM® (ROCHE DIAGNOSTICS). - EZ1 ADVANCED AND EZ1 ADVANCED XL (QIAGEN). - M2000SP™ (ABBOTT). - VERSANT KPCR MOLECULAR SYSTEM SP (SIEMENS). - HIGH PURE VIRAL NUCLEIC ACID KIT (ROCHE DIAGNOSTICS). AMPLIFICATION: - APPLIED BIOSYSTEMS™. - LIGHTCYCLER®. - SMARTCYCLER®. - ROTOR-GENE™. - STRATAGENE®. - VERSANT KPCR MOLECULAR SYSTEM AD (SIEMENS). - I-CYCLER, DX REAL-TIME SYSTEM (BIO-RAD).
STATUS	FOR <i>IN VITRO</i> DIAGNOSTIC USE, CE MARKING IN EUROPE - PLEASE INQUIRE. USA: FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.

HSV1 HSV2 VZV R-gene™

69-004 

HSV1 HSV2 VZV R-gene™ - Quantification Assay

 Related publications

USE FOR HSV-1, HSV-2 and VZV genome quantification by real-time PCR.

- HSV1 HSV2 VZV R-gene™ - Quantification COMPLETE kit
- HSV1 HSV2 VZV R-gene™ - Quantification kit

180 tests 69-004
180 tests 69-004B

The *Herpesviridae* are a family of DNA viruses which are responsible for a wide spectrum of infections in humans. The primary infection is generally limited to the mucous membranes and the skin. After the primary infection, the virus persists in its host in a latent state and, assisted by chronic or transient immunosuppression, can be reactivated to give recurrent infections.

There are eight human *Herpesviridae*, of which Herpes Simplex Virus types 1 (HSV-1) and 2 (HSV-2) and Varicella Zoster Virus (VZV) are the most common in immunocompetent patients. Usually benign, the infections linked with these viruses can nevertheless develop severe clinical forms such as encephalitis, meningitis, retinitis and neonatal infections. These severe and often atypical infections do not allow the implicated virus to be identified.

For many years various antivirals have proven their worth in efficiently treating these pathologies if prescribed early and at appropriate doses. In severe infections, it is therefore essential to obtain an early and rapid diagnosis of the infection. Among the severe forms of HSV-1, HSV-2 or VZV infections in adults, HSV-1-induced encephalitis - of which there are 1/250,000 to 1/1,000,000 cases per year - can still be fatal if untreated. Encephalitis caused by HSV-2 or VZV usually has a more favourable prognosis. Neonatal encephalitis in new-born babies can be traced to both HSV-1 and HSV-2 viruses, but it is HSV-2 virus which is responsible for the most serious neurological disorders. VZV virus had been associated with encephalitis in immunocompromised subjects for a long time, thanks to viral genome detection techniques, it has been revealed increasingly in meningo-encephalitis type infections in immunocompetent subjects. Although conventional immunological culture and detection techniques are suitable for diagnosing the benign skin infections for which these viruses are responsible, they are unsuitable for severe infections of the central nervous system (CNS) and congenital infections. The time to obtain a result and the sensitivity of these immunological techniques are inadequate.

The HSV1 HSV2 VZV R-gene™ kit is designed to measure the viral load of HSV-1, HSV-2 and VZV by real-time PCR after viral DNA extraction. User friendly and complete, the HSV1 HSV2 VZV R-gene™ kit is suitable for any laboratory. Various types of samples, automatic and manual extraction systems have been validated including a combined DNA/RNA extraction kit. For this reason, it is possible to perform simultaneously a DNA analysis with HSV1 HSV2 VZV R-gene™ and RNA analysis with Enterovirus R-gene™ (ref.: 69-005) on the same extracted sample. Extracted DNA is then amplified and detected by real-time PCR on the common available platforms.

Thanks to a general amplification program within the R-gene™ range of products, the sample analysis can be simultaneously run for the other viruses: CMV with CMV R-gene™ kit (ref.: 69-003), CMV, HHV-6, HHV-7 and HHV-8 with CMV HHV6,7,8 R-gene™ kit (ref.: 69-100), EBV with EBV R-gene™ kit (ref.: 69-002), BKV with BK Virus R-gene™ kit (ref.: 69-013) and Adenovirus with ADENOVIRUS R-gene™ kit (ref.: 69-010).

Results are validated with different controls, including an extraction control, all provided in the kit. Results are useful for the diagnosis of primary infections and virus reactivation as well as for the management of patient therapy.



HSV1 HSV2 VZV R-GENE™

PRODUCT INFORMATION

DETECTION AND QUANTIFICATION COMPLETE KIT

69-004

PRINCIPLE OF THE TEST	GENOMIC DETECTION AND QUANTIFICATION OF HSV-1, HSV-2, VZV.
TECHNOLOGY	REAL-TIME PCR. 5' NUCLEASE TECHNOLOGY TAQMAN®.
GENE TARGET	HSV-1: US7 GENE. HSV-2: US2 GENE. VZV: GP19 (ORF17) GENE.
SPECIMEN	CSF, GYNAECOLOGICAL SMEARS, CUTANEOUS AND MUCOUS SMEARS, EARS NOSE THROAT (ENT) AND OPHTHALMOLOGICAL SAMPLES, BRONCHO-ALVEOLAR LIQUID (BAL), PLASMA, CELL CULTURE.
LIMIT OF DETECTION	HSV-1: 2 COPIES/PCR. HSV-2: 2 COPIES/PCR. VZV: 2 COPIES/PCR.
DYNAMIC RANGE OF QUANTIFICATION	HSV-1: UP TO 500 000 COPIES/ML. HSV-2: UP TO 500 000 COPIES/ML. VZV: UP TO 500 000 COPIES/ML.
CONTROLS INCLUDED	INHIBITION AND EXTRACTION CONTROL, SENSITIVITY CONTROL, NEGATIVE CONTROL.
RESULT WITHIN	1 H. 15 EXTRACTION STEP NOT INCLUDED.
REPORTING UNITS	NUMBER OF VIRAL COPIES/ML OF SAMPLE.
NUMBER OF TESTS	180 TESTS.
KIT STORAGE	-18°C/-22°C FOR REF.: 69-004B (QUANTIFICATION KIT). +2°C/+8°C FOR REF.: 67-000 (DNA EXTRACTION KIT, AVAILABLE WITH THE COMPLETE KIT).
NECESSARY EQUIPMENT	EXTRACTION: - NUCLISENS® EASYMAG™ (BIOMÉRIEUX) . - QIAAMP DNA BLOOD MINI KIT (QIAGEN). - QIAAMP MINELUTE VIRUS SPIN KIT (QIAGEN). - QIACUBE, QIASYMPHONY SP (QIAGEN). - MAGNA PURE COMPACT® (ROCHE DIAGNOSTICS). - MAGNA PURE LC SYSTEM® (ROCHE DIAGNOSTICS). - VERSANT KPCR MOLECULAR SYSTEM SP (SIEMENS). - EZ1 ADVANCED AND EZ1 ADVANCED XL (QIAGEN). AMPLIFICATION: - APPLIED BIOSYSTEMS™; LIGHTCYCLER®; SMARTCYCLER®; ROTOR-GENE™; STRATAGENE®; - VERSANT KPCR MOLECULAR SYSTEM AD (SIEMENS); DX REAL-TIME SYSTEM (BIO-RAD).
STATUS	FOR <i>IN VITRO</i> DIAGNOSTIC USE, CE MARKING IN EUROPE - PLEASE INQUIRE. USA: FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.

HSV1 r-gene™

71-015 

HSV1 r-gene™

USE FOR Real-time PCR amplification and detection of HSV-1.

- HSV1 r-gene™ 60 reactions 2 x 450 µL 71-015

The **HSV1 r-gene™** is an amplification premix which, in association with the HSV1 HSV2 VZV R-gene™ kit (Argene, ref.: 69-004), enables quantification of the HSV-1 genome using real-time PCR methods.

The **HSV1 r-gene™** kit thus rounds off the tests offered by the HSV1 HSV2 VZV R-gene™ kit (ref.: 69-004) for laboratories with a higher demand for HSV-1 analysis than HSV-2 and VZV.

HSV2 r-gene™

71-016 

HSV2 r-gene™

USE FOR Real-time PCR amplification and detection of HSV-2.

- HSV2 r-gene™ 60 reactions 2 x 450 µL 71-016

The **HSV2 r-gene™** is an amplification premix which, in association with the HSV1 HSV2 VZV R-gene™ kit (Argene, ref.: 69-004), enables quantification of the HSV-2 genome using real-time PCR methods.

The **HSV2 r-gene™** kit thus rounds off the tests offered by the HSV1 HSV2 VZV R-gene™ kit (ref.: 69-004) for laboratories with a higher demand for HSV-2 analysis than HSV-1 and VZV.

VZV r-gene™

71-017 

VZV r-gene™

USE FOR Real-time PCR amplification and detection of VZV.

- VZV r-gene™ 60 reactions 2 x 450 µL 71-017

The **VZV r-gene™** is an amplification premix which, in association with the HSV1 HSV2 VZV R-gene™ kit (Argene, ref.: 69-004), enables quantification of the VZV genome using real-time PCR methods.

The **VZV r-gene™** kit thus rounds off the tests offered by the HSV1 HSV2 VZV R-gene™ kit (ref.: 69-004) for laboratories with a higher demand for VZV analysis than HSV-1 and HSV-2.

BK Virus R-gene™

69-013 

BK Virus R-gene™ - Quantification Assay

 Related publications

USE FOR BKV genome quantification by real-time PCR.

- BK Virus R-gene™ - Quantification COMPLETE kit
- BK Virus R-gene™ - Quantification kit

90 tests 69-013
90 tests 69-013B

BK virus, a polyomavirus belonging to the family of papovaviridae, particularly infects the human population (seroprevalence 60 to 100%). Primary infection is asymptomatic and migrates through the respiratory tract during early childhood. Hereafter, the virus migrates to the primary sites of latency, such as the kidney and the urothelium. In general, the prevalence of BK virus in urine lies between 0.3% and 6%, but this prevalence increases with the level of immunosuppression.

The reactivation of symptoms is associated with urinary tract infections and manifests itself as hemorrhagic cystitis (in bone marrow transplant patients), urethral stenosis, tubulo-interstitial nephropathy and interstitial nephritis (in kidney transplant patients). Interstitial nephritis is an opportunistic and emerging renal tropism infection and is the major cause of organ rejection. In this stage the virus can then be detected in both blood and urine samples. A virological diagnosis is obtained by the search for the specific virus. Serological diagnosis only has a limited application due to the high seroprevalence of polyomavirus antibodies. Electronic microscopy and urine cytology remain the major techniques to put in place.

Quantitative real-time PCR with the **BK Virus R-gene™** kit is a fast and sensitive method for the detection and quantification of BK virus. Viral load measurement and follow-up in renal transplant patients with BKV associated nephropathy enables to adapt the treatment (only immunosuppressive treatment or in combination with antiviral drugs).

The **BK Virus R-gene™** kit enables the quantification of BK virus in real-time PCR after viral DNA extraction. **BK Virus R-gene™** is a user-friendly and complete kit and therefore ideal for routine diagnostics. The kit has been clinically validated on many types of specimen in combination with numerous DNA purification systems (automatic and manual) and amplification platforms.

Thanks to a general amplification program for the entire range of **R-gene™** kits, the sample analysis can be simultaneously run for all other DNA viruses: **JC Virus r-gene™ Primers/Probe** (ref.: 71-004), Adenovirus with **Adenovirus R-gene™** kit (ref.: 69-010B), CMV with **CMV R-gene™** kit (ref.: 69-003B), CMV, HHV-6, HHV-7 and HHV-8 with **CMV HHV6, 7, 8 R-gene™** kit (ref.: 69-100B), EBV with **EBV R-gene™** kit (ref.: 69-002B), HSV-1, HSV-2, and VZV with **HSV1 HSV2 VZV R-gene** kit (ref.: 69-004B).

Results are validated with all the necessary controls (including an internal extraction control) provided with the kit.



BK VIRUS R-GENE™

PRODUCT INFORMATION

QUANTIFICATION COMPLETE KIT

69-013

PRINCIPLE OF THE TEST	GENOMIC DETECTION AND QUANTIFICATION OF BKV.
TECHNOLOGY	REAL-TIME PCR. 5' NUCLEASE TECHNOLOGY TAQMAN®.
GENE TARGET	SMALL T ANTIGEN (STAG).
SPECIMEN	WHOLE BLOOD, PLASMA, URINE SAMPLES.
LIMIT OF DETECTION	2.6 COPIES/PCR. 65 COPIES/ML.
DYNAMIC RANGE OF QUANTIFICATION	UP TO 10 ¹¹ COPIES/ML.
CONTROLS INCLUDED	INHIBITION AND EXTRACTION CONTROL, SENSITIVITY CONTROL, NEGATIVE CONTROL.
RESULT WITHIN	1 H. 15 EXTRACTION STEP NOT INCLUDED.
REPORTING UNITS	NUMBER OF VIRAL COPIES/ML OF SAMPLE.
NUMBER OF TESTS	90 TESTS.
KIT STORAGE	-18°C/-22°C FOR REF.: 69-013B (QUANTIFICATION KIT). +2°C/+8°C FOR REF.: 67-000 (DNA EXTRACTION KIT, AVAILABLE WITH THE COMPLETE KIT).
NECESSARY EQUIPMENT	EXTRACTION: <ul style="list-style-type: none"> - NUCLISENS® EASYMAG™ (BIOMÉRIEUX). - QIAAMP DNA BLOOD MINI KIT (QIAGEN). - QIACUBE, QIASYMPHONY SP (QIAGEN). - VERSANT KPCR MOLECULAR SYSTEM SP (SIEMENS). - MAGNA PURE COMPACT® (ROCHE DIAGNOSTICS). - MAGNA PURE LC SYSTEM® (ROCHE DIAGNOSTICS). - EZ1 ADVANCED AND EZ1 ADVANCED XL (QIAGEN). AMPLIFICATION: <ul style="list-style-type: none"> - APPLIED BIOSYSTEMS™. - LIGHTCYCLER® (ROCHE DIAGNOSTICS). - SMARTCYCLER® (CEPHEID). - ROTOR-GENE™ (CORBETT RESEARCH). - STRATAGENE® Mx3000P, STRATAGENE® Mx3005P. - VERSANT KPCR MOLECULAR SYSTEM AD (SIEMENS). - DX REAL-TIME SYSTEM (BIO-RAD).
STATUS	FOR <i>IN VITRO</i> DIAGNOSTIC USE, CE MARKING IN EUROPE - PLEASE INQUIRE. USA: NOT AVAILABLE.

JC Virus r-gene™ Primers/Probe

USE FOR Real-time PCR amplification and detection of JC Virus.

- JC Virus r-gene™ Primers/Probe 60 reactions 2 x 450 µL 71-004

JC Virus r-gene™ Primers/Probe product is a premix designed to amplify JC virus using 5' nuclease real-time assay technology. The targeted sequence corresponds to a fragment of 197/198 bp located in the gene coding for the "Large T antigen".

BK Virus r-gene™ Primers/Probe

BK Virus r-gene™ Primers/Probe

USE FOR Real-time PCR amplification and detection of BK Virus.

- BK Virus r-gene™ Primers/Probe 60 reactions 2 x 450 µL 71-005

BK Virus r-gene™ Primers/Probe product is a premix designed to amplify BK Virus using 5' nuclease real-time assay technology. The targeted sequence corresponds to a fragment of 197/198 bp located in the gene coding for the "Large T antigen".

Adenovirus r-gene™ Primers/Probes

Adenovirus r-gene™ Primers/Probes

USE FOR 5' nuclease real-time PCR Adenovirus amplification and detection (7 species).

- Adenovirus r-gene™ Primers/Probes 60 reactions 2 x 450 µL 71-010

Adenovirus r-gene™ Primers/Probes product is a premix designed to amplify Adenovirus using 5' nuclease real-time assay technology. The targeted sequence corresponds to a fragment of 138 bp, located in the gene coding for the Hexon.

Parechovirus r-gene™

Parechovirus r-gene™

USE FOR Parechovirus genome detection by real-time PCR.

- Parechovirus r-gene™ 60 tests 2 x 450 µL 71-020

Human Parechoviruses (HPeV) belong to the Picornaviridae family. Fourteen types of Human Parechoviruses have been identified. Human Parechoviruses are frequent pathogens (seroprevalence of 95% has been reported), usually causing asymptomatic infections. However, human parechovirus infections have also been described to be associated with serious respiratory illnesses, encephalitis and aseptic meningitis.

Parechovirus r-gene™ is designed for the real-time PCR detection of Parechoviruses on respiratory and cerebrospinal fluid samples by using the 5' nuclease technology.

The amplified fragment measures 265 base pairs and is located in the 5'UTR region of the Parechovirus genome. Reverse transcriptase is supplied along with an inhibition control and a positive control to validate the entire assay.

The **Parechovirus r-gene™** amplification protocol is similar to other **Argene** real-time PCR products. Therefore Parechovirus can be tested simultaneously with other viruses involved in central nervous system and/or respiratory infections.

Methods for DNA amplification using Polymerase Chain Reaction (PCR), RT-PCR process and 5' nuclease are covered by US patents issued to Hoffmann-La Roche. Neither anything in this publication nor purchase of these products from ARGENE should be construed as an authorization or implicit license to use these methods.

ENTEROVIRUS R-gene™

69-005 

ENTEROVIRUS R-gene™ - Real-time PCR Assay

 Related publications

USE FOR Real-time PCR amplification and detection of Enteroviruses.

- | | | |
|--|----------|---------|
| • ENTEROVIRUS R-gene™ - Real-time PCR COMPLETE kit | 90 tests | 69-005 |
| • ENTEROVIRUS R-gene™ - Real-time PCR kit | 90 tests | 69-005B |

Members of the Picornaviridae family, enteroviruses are single-strand RNA viruses, split into 4 families (Enterovirus A, B, C and D). More than 100 serotypes have been described, of which 68 are currently recognised in the 2005 international classification (8th report of the International Committee on the Taxonomy of Viruses, 2005).

In temperate climates, Enterovirus infections occur mostly seasonally (from May to October) and are particularly common infections in children and adolescents. Enteroviruses are the leading cause of meningitis. The clinical criteria of meningitis caused by an Enterovirus infection can not be discriminated from those caused by other infectious agents (e.g. Mumps virus or Herpes Simplex virus). Enteroviruses are also associated with cardiac, respiratory, cutaneous mucosa or neonatal pathologies.

Polioviruses are responsible for acute anterior poliomyelitis. This disease is currently being eradicated worldwide.

The standard method for the diagnosis of Enteroviruses is isolation by cell culture followed, if necessary, by a sero-neutralisation typing. However, this traditional method sometimes lacks sensitivity for certain serotypes (Coxsackievirus A and enterovirus 68 to 71). Currently, the method of choice for the diagnosis of these neuro-meningitis infections is the molecular diagnosis on CSF samples. Much faster than conventional PCR methods, real-time PCR enables a rapid and sensitive identification of all the serotypes, allowing clinicians to cut off unnecessary treatment and useless clinical examinations.

The ENTEROVIRUS R-gene™ kit enables the generic detection of Enteroviruses by amplification of the highly conserved 5' non-coding region, by means of real-time PCR amplification on CSF samples, stool samples, respiratory specimens or culture cells.

The kit has been clinically validated on several types of specimens with various RNA purification systems (automatic and manual) and the most common real-time PCR platforms.

Results are validated with different controls, including an extraction control, all provided with the kit. Results are useful for the rapid identification of all serotypes and the management of patient therapy.



ENTEROVIRUS R-GENE™

PRODUCT INFORMATION

DETECTION COMPLETE KIT

69-005

PRINCIPLE OF THE TEST	REAL-TIME PCR AMPLIFICATION AND DETECTION OF ENTEROVIRUSES.
TECHNOLOGY	REAL-TIME PCR. 5' NUCLEASE TECHNOLOGY TAQMAN®.
GENE TARGET	5' NON CODING REGION.
SPECIMEN	CSF, STOOL, RESPIRATORY SPECIMEN, CELL CULTURE.
LIMIT OF DETECTION	0.01 (COXA13) TO 10 (PV1) TCID ₅₀ /ML.
DYNAMIC RANGE OF QUANTIFICATION	N/A
CONTROLS INCLUDED	INHIBITION AND EXTRACTION CONTROL, POSITIVE CONTROL, NEGATIVE CONTROL.
RESULT WITHIN	2 H. EXTRACTION STEP NOT INCLUDED.
REPORTING UNITS	QUALITATIVE TEST.
NUMBER OF TESTS	90 TESTS.
KIT STORAGE	-18°C/-22°C FOR REF.: 69-005B (REAL-TIME PCR KIT). +2°C/+8°C FOR REF.: 67-020 (DNA/RNA EXTRACTION KIT, AVAILABLE WITH THE COMPLETE KIT).
NECESSARY EQUIPMENT	<p>EXTRACTION: - NUCLISens® EASYMAG™ (BIOMÉRIEUX). - QIAAMP RNA VIRUS MINI KIT (QIAGEN). - QIAAMP MINELUTE VIRUS SPIN KIT (QIAGEN). - QIACUBE (QIAGEN). - MAGNA PURE COMPACT® (ROCHE DIAGNOSTICS). - VERSANT KPCR MOLECULAR SYSTEM SP (SIEMENS). - EZ1 ADVANCED AND EZ1 ADVANCED XL (QIAGEN).</p> <p>AMPLIFICATION: - APPLIED BIOSYSTEMS™. - LIGHTCYCLER®. - ROTOR-GENE™. - STRATAGENE. - SMARTCYCLER®. - VERSANT KPCR MOLECULAR SYSTEM AD (SIEMENS). - DX REAL-TIME SYSTEM (BIO-RAD).</p>
STATUS	FOR IN VITRO DIAGNOSTIC USE, CE MARKING IN EUROPE - PLEASE INQUIRE.

BORDETELLA R-gene™ - Real-time PCR Assay

 Related publications

USE FOR Real-time PCR amplification and detection of *Bordetella*.

- **BORDETELLA R-gene™ - Real-time PCR COMPLETE kit**
- **BORDETELLA R-gene™ - Real-time PCR kit**

60 tests 69-011
60 tests 69-011B

Whooping cough is caused by the bacterium *Bordetella pertussis*. The bacteria enter the body through the airways and attach to the mucosa of the upper respiratory tract (trachea and bronchi). The inflammatory and necrotic impairments that it causes are due to the pertussis toxin that is released.

Whooping cough is a highly contagious childhood respiratory disease. It mainly affects children under 5 years old and may be very serious in infants under 6 months, because they do not have any immunity against the illness (maternal antibodies against whooping cough do not cross the placenta). The disease can then lead to respiratory complications (apnea and bacterial surinfections). This disease may be fatal among newborn infants under 6 months. Whooping cough can affect people of any age. In well-vaccinated countries, mortality and morbidity have been reduced by 95%. However, a change in the transmission mode of the disease has been observed for some years in the absence of natural or vaccination boosting. It no longer occurs from child to child but from adult or adolescent to non-vaccinated infants.

Bordetella pertussis is generally diagnosed by cell culture. This technique is still the reference technique in all cases of non-vaccinated or incompletely vaccinated patients. Diagnosis by serology is also used but presents problems associated with the vaccination because it is not possible to differentiate between the vaccinal serological response and the response to an infection by the pathogen. Real-time PCR is an effective alternative for diagnosing *Bordetella* because it produces sensitive, specific and faster results than culture.

The **BORDETELLA R-gene™** kit enables the detection of *Bordetella* bacteria containing the IS481 sequence (traditionally found in *Bordetella pertussis*) using real-time PCR on respiratory samples (nasopharyngeal aspiration and expectoration).

Several types of purification systems (automatic and manual) have been validated with the kit. Extracted DNA is then amplified and detected by real-time PCR on the commonly available platforms.

Results are validated with different controls, including an extraction control, all provided in the kit.



BORDETELLA R-GENE™

DETECTION COMPLETE KIT

PRODUCT INFORMATION

69-011

PRINCIPLE OF THE TEST	REAL-TIME PCR AMPLIFICATION AND DETECTION OF <i>BORDETELLA</i> .
TECHNOLOGY	REAL-TIME PCR. 5' NUCLEASE TECHNOLOGY TAQMAN®.
GENE TARGET	IS481 REGION.
SPECIMEN	NASOPHARYNGEAL ASPIRATIONS AND EXPECTORATIONS.
LIMIT OF DETECTION	<10 BACTERIAL GENOME / mL.
DYNAMIC RANGE OF QUANTIFICATION	N/A
CONTROLS INCLUDED	INHIBITION AND EXTRACTION CONTROL, POSITIVE CONTROL, NEGATIVE CONTROL.
RESULT WITHIN	1 H. 15 EXTRACTION STEP NOT INCLUDED.
REPORTING UNITS	QUALITATIVE TEST.
NUMBER OF TESTS	60 TESTS.
KIT STORAGE	-18°C/-22°C FOR REF.: 69-011B (QUANTIFICATION KIT). +2°C/+8°C FOR REF.: 67-000 (DNA EXTRACTION KIT, AVAILABLE WITH THE COMPLETE KIT).
NECESSARY EQUIPMENT	EXTRACTION: <ul style="list-style-type: none"> - NUCLISENS® EASYMAG™ (BIOMÉRIEUX). - QIAAMP DNA BLOOD MINI KIT (QIAGEN). - QIAAMP DNA MINI KIT (QIAGEN). - QIACUBE (QIAGEN). - MAGNA PURE COMPACT® (ROCHE DIAGNOSTICS). - MAGNA PURE LC SYSTEM® (ROCHE DIAGNOSTICS). - HIGH PURE PCR TEMPLATE PREPARATION KIT (ROCHE DIAGNOSTICS). AMPLIFICATION: <ul style="list-style-type: none"> - APPLIED BIOSYSTEMS™. - LIGHTCYCLER®. - ROTOR-GENE™. - SMARTCYCLER®. - DX REAL-TIME SYSTEM (BIO-RAD).
STATUS	FOR <i>IN VITRO</i> DIAGNOSTIC USE, CE MARKING IN EUROPE - PLEASE INQUIRE. USA: FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.

Bordetella parapertussis r-gene™ 71-012

Bordetella parapertussis r-gene™

USE FOR 5' nuclease real-time PCR *Bordetella parapertussis* amplification and detection.

USE FOR *Bordetella parapertussis* extraction and amplification control.

- *Bordetella parapertussis* r-gene™ 60 reactions 2 x 450 µL 71-012

Bordetella parapertussis r-gene™ is a ready-to-use premix optimized for the real-time amplification of IS1001 region of *Bordetella parapertussis*, using the 5' nuclease technology. An internal control checks, in the same tube, the efficiency of extraction step and the possible presence of inhibitory agents of amplification.

RSV A/B r-gene™ Primers/Probes 71-007

RSV A/B r-gene™ Primers/Probes

USE FOR 5' nuclease real-time RT-PCR RSV A and B amplification and detection.

- RSV A/B r-gene™ Primers/Probes 60 reactions 2 x 450 µL 71-007

RSV A/B r-gene™ Primers/Probes product is a premix designed to amplify RSV A and B using 5' nuclease real-time assay technology. The targeted sequence corresponds to a fragment of 185 bp, located in the gene coding for a nucleoprotein.

hMPV A/B r-gene™ Primers/Probes 71-008

hMPV A/B r-gene™ Primers/Probes

USE FOR 5' nuclease real-time RT-PCR hMPV A and B amplification and detection.

- hMPV A/B r-gene™ Primers/Probes 60 reactions 2 x 450 µL 71-008

hMPV A/B r-gene™ Primers/Probes product is a premix designed to amplify hMPV A and B using 5' nuclease real-time assay technology. The targeted sequence corresponds to a fragment of 135 bp, located in the gene coding for a matricial protein.

Bocavirus r-gene™ Primers/Probe 71-009

Bocavirus r-gene™ Primers/Probe

USE FOR 5' nuclease real-time PCR Bocavirus amplification and detection.

- Bocavirus r-gene™ Primers/Probe 60 reactions 2 x 450 µL 71-009

Bocavirus r-gene™ Primers/Probe product is a premix designed to amplify Bocavirus using 5' nuclease real-time assay technology. Targeted sequences correspond to a fragment of 77 bp, located in the gene coding for the non structural protein NS1.

Methods for DNA amplification using Polymerase Chain Reaction (PCR), RT-PCR process and 5' nuclease are covered by US patents issued to Hoffmann-La Roche. Neither anything in this publication nor purchase of these products from ARGENE should be construed as an authorization or implicit license to use these methods.

For research use only.

Influenza A/B r-gene™ Primers/Probes 71-006

Influenza A/B r-gene™ Primers/Probes

USE FOR Amplification and detection of Influenza A and B viruses by real-time RT-PCR.

- Influenza A/B r-gene™ Primers/Probes 60 reactions 2 x 450 µL 71-006

Influenza A/B r-gene™ Primers/Probes product is a premix designed to amplify Influenza A and B viruses using 5' nuclease real-time assay technology. Targeted sequences correspond to fragments of 233 and 146 bp, located in the M gene coding for a matricial protein.

Influenza A_(M) Group & H₁N₁ 2009 r-gene™ 71-300



Influenza A_(M) Group & H₁N₁ 2009 r-gene™

USE FOR Typing of the novel 2009 Influenza A/H₁N₁ and detection of Influenza A group viruses by real-time RT-PCR.

- Influenza A_(M) Group & H₁N₁ 2009 r-gene™ 60 tests 2 x 450 µL 71-300

Influenza A_(M) Group & H₁N₁ 2009 r-gene™ product is a premix designed to amplify Influenza A virus and Influenza A/H₁N₁ 2009 virus using 5' nuclease real-time assay technology. Targeted sequence corresponds to a fragment of 233 bp, located in the M gene coding for a matricial protein.

Quanti FluA QS r-gene™ 68-006

Quanti FluA QS r-gene™

USE FOR Quantification of Influenza A group viruses and/or novel 2009 Influenza A/H₁N₁ in respiratory samples by real-time qPCR.

- Quanti FluA r-gene™ 30 reactions 68-006

Quanti FluA QS r-gene™ is designed to quantify the genome of the following Influenza viruses:
- Swine-lineage Influenza A/H₁N₁ 2009 virus using *Influenza A_(M) Group & H₁N₁ r-gene™* premix (ref.: 71-300);
- Influenza A virus using *Influenza A/B r-gene™ Primers/Probes* premix (ref.: 71-006).

The use of *CELL Control r-gene™* (ref.: 71-106) in parallel with *Quanti FluA QS r-gene™* will allow to obtain relative quantification in copies of virus per cell.

CELL Control r-gene™ 71-106



CELL Control r-gene™

USE FOR Validation of the presence of cells in the sample by real-time PCR assays for DNA or RNA genomes.

USE FOR Quantification of cells in the sample.

- CELL Control r-gene™ 100 reactions 2 x 750 µL 71-106

The *CELL Control r-gene™* is a ready to use premix designed to validate results obtained by real-time amplification checking the presence of cells in extracted samples. *CELL Control r-gene™* determines the number of cells in the sample by using the quantification standards supplied with the kit.

DICO Ampli r-gene™

71-100

DICO Ampli r-gene™

 Related publications

USE FOR DNA target inhibition control premix for real-time PCR.

- DICO Ampli r-gene™ 100 reactions 2 x 750 µL 71-100

The **DICO Ampli r-gene™** is a ready-to-use premix designed to control the presence of amplification inhibitory agents in real-time PCR (5' nuclease).

DICO Extra r-gene™

71-101

DICO Extra r-gene™

 Related publications

USE FOR Extraction and inhibition control for real-time PCR assays on DNA genomes.

- DICO Extra r-gene™ 100 reactions 71-101

DICO Extra r-gene™ checks the entire real-time process from extraction to amplification (5' nuclease). **DICO Extra r-gene™** controls the efficiency of the extraction procedure (lysis included) and the possible presence of inhibitory agents in the extracted product. The internal control (IC2) provided with **DICO Extra r-gene™** is added to the sample prior to extraction. The extraction step is then performed as usual in standard conditions.

Extracted product must be distributed in the **DICO Extra r-gene™** premix (DP2) and in the amplification premix specific to the target DNA.

A reference control, PCR grade water (W0), processed as a sample through the extraction, is also provided with **DICO Extra r-gene™**. The analysis of results obtained with the DP2 premix validates the extraction process as well as the presence of amplification inhibitory agents in the sample.

RICO Extra r-gene™

71-105

RICO Extra r-gene™

USE FOR Extraction and inhibition control for real-time PCR assays on RNA genomes.

- RICO Extra r-gene™ 100 reactions 71-105

RICO Extra r-gene™ checks the entire real-time process from extraction to amplification (5' nuclease). **RICO Extra r-gene™** controls the efficiency of the extraction procedure (lysis included) and the possible presence of inhibitory agents in the extracted product. The Internal Control (IC1) provided with **RICO Extra r-gene™** is added to the sample prior to extraction. The extraction step is then performed as usual in standard conditions.

Extracted product must be distributed in the **RICO Extra r-gene™** premix (RP1) and in the amplification premix specific to the target RNA.

A reference control, PCR grade water (W0), processed as a sample through the extraction, is also provided with **RICO Extra r-gene™**. The analysis of results obtained with the RP1 premix validates the extraction process as well as the presence of amplification inhibitory agents in the sample.

COLOUR Compensation r-gene™

71-103

COLOUR Compensation r-gene™

USE FOR Creation of colour compensation file (530-560 nm on LightCycler® 2.0).

- COLOUR Compensation r-gene™ 2 calibration runs 3 x 60 µL 71-103

Colour Compensation r-gene™ is a set of 3 ready-to-use premixes designed to create a colour compensation file in LightCycler® 2.0 software to analyse results obtained in one single capillary containing 2 different fluorophores (530-560 nm). The colour compensation file corrects the bleed-over caused by this dual-colour reaction. The correction compensates the data which results in a single and complete fluorescent dye signal per LightCycler® 2.0 channel.

Colour Compensation r-gene™ is compliant with the full **Argene R-gene™** range.

Methods for DNA amplification using the Reverse Transcription PCR process and/or the 5' Nuclease Detection process are covered by patents issued to F. Hoffmann-La Roche Ltd et Roche Molecular Systems, Inc. Neither anything in this publication nor purchase of this product from ARGENE should be construed as an authorization or implicit license to use these methods.

For research use only.

Quanti HHV8 QS r-gene™

USE FOR HHV-8 genome quantification range for real-time PCR application with CMV HHV6,7,8 R-gene™ kit (Argene, ref.: 69-100).

- Quanti HHV8 r-gene™ 30 reactions 68-008

Quanti HHV8 r-gene™ is designed to quantify herpesvirus 8 genome. Quanti HHV8 r-gene™ consists of 4 quantification standards (QS1, QS2, QS3, QS4) ranged from 5 000 copies/μL to 5 copies/μL to be amplified with the HHV-8 amplification premix (R8) provided with the CMV HHV6,7,8 R-gene™ kit (Argene, ref.: 69-100).

Bocavirus r-gene™ positive control

Bocavirus r-gene™ positive control

USE FOR Positive control for 5' nuclease real-time PCR Bocavirus amplification and detection.

- Bocavirus r-gene™ positive control 10 reactions 100 μL 68-009

Bocavirus r-gene™ Positive Control consists of extracted DNA that should be amplified with reagent 71-009 (Bocavirus r-gene™ Primers/Probe).

CMV Clear QC Panel

CMV Clear QC Panel

USE FOR Quantitative or qualitative molecular virology.

USE FOR Research.

USE FOR Conventional and real-time PCR.

- CMV Clear QC Panel 3 vials Freeze dried 3 x 1 mL 68-020

Clear QC Panels are reference material for internal quality control of molecular virology assays. Clear QC Panels undergo the same treatment as the clinical sample during the entire assay (from extraction to detection). Thus, Clear QC Panels validate the entire molecular testing process (conventional PCR or real-time PCR) whatever the amplified sequence may be. Clear QC Panels are manufactured to Argene specifications by QCMD organisation (Quality Control for Molecular Diagnosis). Each Clear QC Panel includes several vials which corresponds to standardised levels of concentrations (quantified in viral copies per mL). The different levels of virus concentration have been chosen to cover a wide spectrum corresponding to the usual values found in virology labs. The daily routine use of Clear QC Panels corresponds to current laboratory quality control policy (e.g. Good Laboratory Practice). Clear QC Panels have been developed to monitor the performance of the molecular testing process and for the detection of random or systematic errors in routine methods. In a research approach, Clear QC Panels evaluate the performance and the robustness of different molecular assays.

Methods for DNA amplification using Polymerase Chain Reaction (PCR), RT-PCR process and 5' nuclease are covered by US patents issued to Hoffmann-La Roche. Neither anything in this publication nor purchase of these products from ARGENE should be construed as an authorization or implicit license to use these methods.

For research use only.

Respiratory M.W.S. r-gene™ - Range of real-time PCR kits

USE FOR Detection and amplification of respiratory pathogens by real-time PCR.

Acute Respiratory Infections (ARI) account for an estimated 75% of all acute morbidities in industrialized countries and continue to be the leading cause of acute illnesses worldwide. Populations at increased risk for developing a fatal respiratory distress are young infants, immunocompromised persons and the elderly.

Upper Respiratory Tract Infections (URTIs) such as rhinitis, pharyngitis, and laryngitis are among the most common infections in children. URTI can lead to acute asthma exacerbations, acute otitis media, and Lower Respiratory Tract Infections (LRTI) such as bronchitis, bronchiolitis, and pneumoniae.

Bacteria and viruses are responsible for the vast majority of respiratory infections. The major causes of ARI in children and adults are Influenza A and B viruses, Parainfluenza viruses type 1, type 2 and type 3, Respiratory Syncytial Virus (RSV A and B), Adenovirus and Rhinovirus. Other pathogens such as Coronavirus, Bocavirus, Enterovirus, Parainfluenzavirus 4, human Metapneumovirus, *Mycoplasma pneumoniae*, *Chlamydomphila pneumoniae* and *Legionella pneumophila*, also infect the respiratory tract and can cause various diseases from mild self limiting upper respiratory tract infections to potentially life threatening pneumoniae. Clinical symptoms are similar and discrimination of the causative agents is only possible with *in vitro* diagnostic molecular methods. Early and specific detection is essential to rapidly identify the causal respiratory pathogen, leading to patient-tailored therapy. A rapid and accurate diagnosis will also help to control outbreaks, reduce potential antibiotic resistance and facilitate a more rapid patient's recovery. To ensure such a diagnosis, real-time PCR is the method of choice.

Respiratory Multi Well System (MWS) r-gene™ is a brand new concept of real-time PCR complete kits for the simultaneous detection of infectious agents involved in respiratory diseases.

The duplex amplification can be performed following a uniform protocol and the program is common for the entire range of pathogens (both DNA and RNA).

Respiratory Multi Well System (MWS) r-gene™ is an innovative solution in response to the challenges in diagnosis of respiratory infections. Indeed, it is a modular multiplex solution allowing multiple detection strategies using the sensitivity and the specificity of a Taqman® 5' nuclease assay.

The Respiratory MWS r-gene™ allows the simultaneous detection of 35 pathogens within less than one hour and a half after extraction.

The results are validated with positive, negative and cellular controls provided with the kits.

All commonly available real-time PCR platforms are compatible with the Multi Well System r-gene™ range.

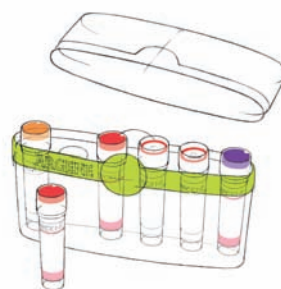
Unlike many others multiplex solutions, MWS r-gene™ does not require any additional equipment or training.

All our premixes are user friendly as they are ready to use. Color codes allow a quick identification of products and reagents. At last, we supply our products in a compact polypropylene packaging for easy storage and the possibility for re-use.

CONTENTS OF MWS r-gene™

All our kits use 5' nuclease TaqMan technology and contain :

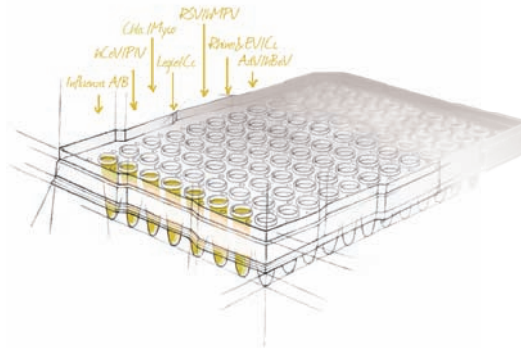
- Reverse Transcriptase (for RNA virus)
- Specific amplification premix
- Negative control (quality PCR water)
- Positive control



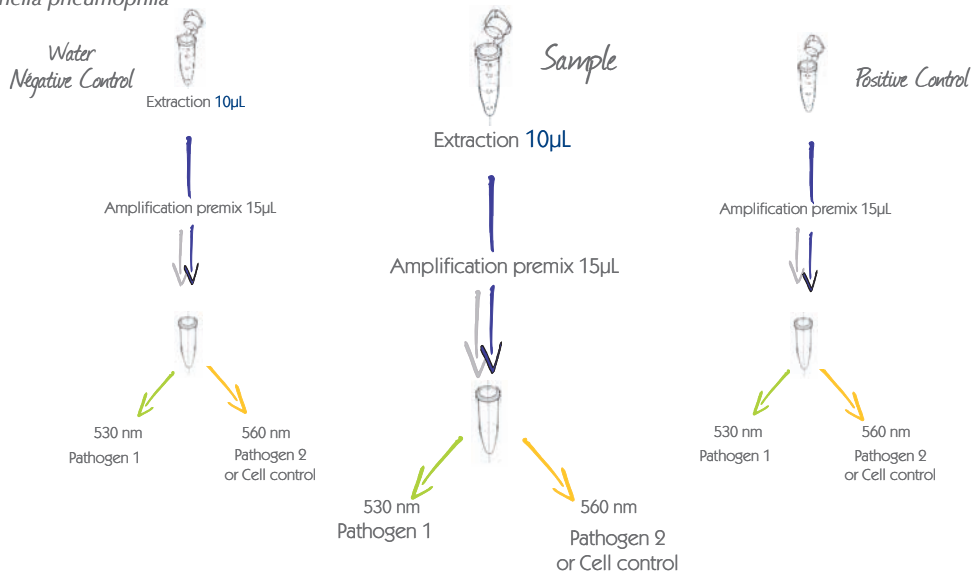
Respiratory M.W.S. r-gene™ - Range of real-time PCR kits

DETECTED PARAMETERS:

- Influenza A
- Influenza B
- Coronavirus (229E, NL63, HKU1, OC43)
- Respiratory Syncytial Virus (A,B)
- Metapneumovirus (A,B)
- Parainfluenzavirus (1,2,3,4)
- Rhinovirus (A,B,C)
- Enterovirus (A,B,C,D)
- Adenovirus (A,B,C,D,E,F,G)
- Bocavirus (1,2,3,4)
- Cell Control
- *Chlamydomphila pneumoniae*
- *Mycoplasma pneumoniae*
- *Legionella pneumophila*



PRINCIPLE



RESPIRATORY M.W.S. r-gene™

RANGE OF KITS FOR THE DETECTION OF RESPIRATORY PATHOGENS

PRODUCT INFORMATION

71-04X

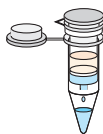
DESIGNATION	INFLUENZA A/B r-gene™ REF.: 71-040	RSV/hMPV r-gene™ REF.: 71-041	RHINO&EV/Cc r-gene™ REF.: 71-042	AdV/hBoV r-gene™ REF.: 71-043	CHLA/MYCO PNEUMO r-gene™ REF.: 71-044	HCoV/HPiV r-gene™ REF.: 71-045	LEGIO/Cc r-gene™ REF.: 71-046
PRINCIPLE OF THE TEST	DUPLIX DETECTION OF RESPIRATORY PATHOGENS BY REAL-TIME PCR						
TECHNOLOGY	5' NUCLEASE TECHNOLOGY TAQMAN®						
GENE TARGET	INFLUENZA A: M GENE CODING FOR MATRICIAL PROTEIN	RSV: N GENE CODING FOR NUCLEUS PROTEIN	RHINO&EV: 5' NON CODING REGION	ADENOVIRUS: HEXON GENE	C. PNEUMONIAE: GENE OMP2 CODING FOR MEMBRAN SURFACE PROTEIN	PARAINFLUENZA: N GENE	L. PNEUMOPHILA: UNDER DEVELOPMENT
	INFLUENZA B: M GENE CODING FOR MATRICIAL PROTEIN	HMPV: M GENE CODING FOR MATRICIAL PROTEIN	CELL CONTROL: HPRT1 GENE	BOCAVIRUS: NS1 AND VP1 GENES	M. PNEUMONIAE: P1 GENE CODING FOR CYTADHESINE	HCoV: N GENE	CELL CONTROL: HPRT1 GENE
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	CHLAMYDOMPHILA PNEUMONIAE MYCOPLASMA PNEUMONIAE	PARAINFLUENZA 1,2,3,4 hCoV 229E, NL63, HKU1, OC43	LEGIONELLA PNEUMOPHILA
SPECIMEN	RESPIRATORY SAMPLES.						
CONTROLS INCLUDED	POSITIVE CONTROL, NEGATIVE CONTROL, CELLULAR CONTROL.						
RESULT WITHIN	1H30 AFTER EXTRACTION.						
NUMBER OF TESTS	60 TESTS.						
KIT STORAGE	-18°/-22°C.						
STATUS	FOR IN VITRO DIAGNOSTIC USE, CE MARKING IN EUROPE - PLEASE INQUIRE. USA: FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.						

Principle of End-Point PCR Molecular Biology kits

ALL KITS FOLLOW THE SAME PROCESS

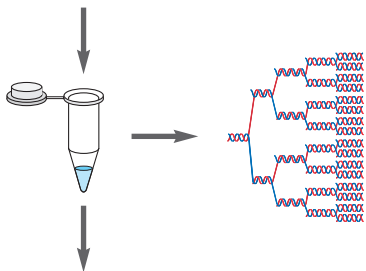
1. DNA OR RNA ISOLATION

SILICA BASED



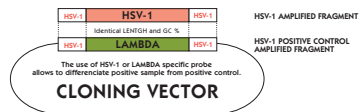
2. CONSENSUS AMPLIFICATION

READY-TO-USE RT AND/OR AMPLIFICATION PREMIX



POSITIVE AND INHIBITION CONTROLS

INCLUDED IN ALL ARGENE MOLECULAR VIROLOGY ASSAYS*, THE POSITIVE AND INHIBITION CONTROLS FOLLOW THE SAME PRINCIPLE:

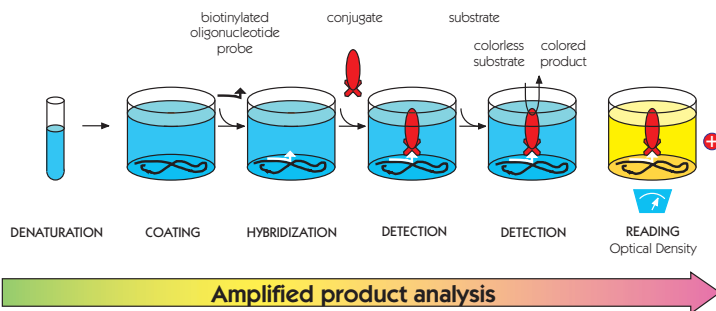


I.E.: FOR POSITIVE HSV1 CONTROL

*NOT AVAILABLE AS SEPARATE REAGENTS

3. HYBRIDOWELL™ DETECTION PROCEDURE

EIA METHODOLOGY (96 WELLS) WITH BREAKABLE STRIPS



- ADVANTAGES -

COMPLETE KIT:	ALL REAGENTS PROVIDED IN THE KIT (FROM EXTRACTION TO DETECTION).
STANDARDIZED:	SIMILAR PROCESSING FOR ALL KITS.
RESULTS VALIDATION:	POSITIVE, NEGATIVE AND INHIBITION CONTROLS ARE INCLUDED IN EACH KIT.
RAPID:	RESULTS <u>WITHIN</u> ONE DAY.
SIMPLE:	STANDARD MOLECULAR BIOLOGY MATERIALS, NO SPECIAL EQUIPMENT IS NEEDED.
USER-FRIENDLY:	READY-TO-USE REAGENTS; COLORED PROBES.
SUITABLE FOR AUTOMATION:	HYBRIDOWELL™ DETECTION STEP.
FLEXIBLE:	- MANY POSSIBLE BREAKS (<u>BEFORE</u> OR <u>AFTER</u> EXTRACTION, AMPLIFICATION OR DETECTION STEPS). - SUITABLE FOR SMALL OR LARGE SAMPLE SERIES; FREE CHOICE OF MICROPLATE MAP. - ALL KITS ARE AVAILABLE <u>WITH</u> OR <u>WITHOUT</u> EXTRACTION KIT (REF.: 67-XXXBC).



HYBRIDOWELL™ Universal

67-012 

HYBRIDOWELL™ Universal Assay

USE FOR Universal detection of amplified DNA on microwell plates.

- HYBRIDOWELL™ Universal - Complete kit

96 tests 67-012

This kit contains all necessary reagents for the analysis of 96 amplified products by hybridization with biotinylated probes on microwell plates. Amplified fragment is directly coated on the plate then hybridized with the biotinylated probe. Hybrids are detected with a streptavidin peroxidase conjugate and detected with hydrogen peroxide associated with TMB. For some pathogenic agents, **HYBRIDOWELL™** adapted probes are available in our catalog. For **HYBRIDOWELL™** usage in your own systems, use probes biotinylated in 5' during synthesis.

HYBRIDOWELL™ UNIVERSAL

PRODUCT INFORMATION

67-012

PRINCIPLE OF THE TEST	UNIVERSAL DETECTION OF AMPLIFIED DNA.
TECHNOLOGY	ELISA METHODOLOGY ON MICROTITER PLATE: HYBRIDIZATION USING BIOTINYLATED PROBE → DETECTION WITH STREPTAVIDIN-PEROXYDASE CONJUGATE + TMB SUBSTRATE.
SPECIMEN	0.1 TO 1 KB AMPLIFIED DNA FRAGMENT.
CONTROLS INCLUDED	NEGATIVE CONTROL.
RESULTS WITHIN	3 H. 25.
RESULTS	QUALITATIVE OR QUANTITATIVE.
REPORTING UNITS	O.D. UNITS (OPTICAL DENSITY).
NUMBER OF TESTS	96 TESTS.
KIT STORAGE	+2°C/+8°C.
NECESSARY EQUIPMENT	MICROTITER PLATE READER.
STATUS	FOR <i>IN VITRO</i> DIAGNOSTIC USE, CE MARKING IN EUROPE - PLEASE INQUIRE.

HERPES CONSENSUS GENERIC

67-090 

HERPES CONSENSUS GENERIC Assay

USE FOR CMV, HSV-1, HSV-2, VZV, EBV, HHV-6 consensus amplification.

- HERPES CONSENSUS GENERIC - Complete kit 50 samples 67-090
- HERPES CONSENSUS GENERIC - Amplification/Detection 50 samples 67-090BC

The **HERPES CONSENSUS GENERIC** kit allows the DNA purification, amplification and detection of samples for which the status of herpesvirus positive or herpesvirus negative (CMV, HSV-1, HSV-2, VZV, EBV, HHV-6) will be determined by using a generic probe. Identification of positive samples obtained is performed using a second kit: the **HYBRIDOWELL™ HERPES IDENTIFICATION** (ref.: 67-050) kit with the same amplified product. The **HERPES CONSENSUS GENERIC** and **HYBRIDOWELL™ HERPES IDENTIFICATION** kits allow detection of the most common herpes genomes, in biological samples such as cerebrospinal fluids (CSF), aqueous humor and tears. The 6 herpesviruses are the major agents of central nervous system infections. Mortality rate for encephalitis is still high, although some specific antiviral treatments are available. Herpes 1 and 2 are responsible for 20 to 70% of necrosing encephalitis. The clinical signs produced during central nervous attacks do not allow clinical differentiation of the precise herpesvirus etiology. The rapid and precise Herpesvirus determination, along with other clinical supportive data, could allow an early initiation of adapted antiviral therapy to improve patient prognosis. Classical diagnostic procedures for these viruses, particularly cultures, are not adapted to most central nervous system specimens (many inhibitors, high inoculum volumes required). For these reasons **Argene HERPES CONSENSUS GENERIC** kit and **HYBRIDOWELL™ HERPES IDENTIFICATION** kit allow rapid detection and typing of these viral genomes and could be important in these pathologies. Positive samples detected with the **HERPES CONSENSUS GENERIC** kit can be further analyzed through **HYBRIDOWELL™ HERPES IDENTIFICATION** kit (ref.: 67-050) in order to determine the exact virus involved. The amplified product obtained with the **HERPES CONSENSUS GENERIC** kit is used again for the identification assay without the need for re-extraction or re-amplification. In this case each amplified product is hybridized with 6 Herpesvirus specific biotinylated probes on a microtiter plate. Detection is performed with a streptavidine peroxidase conjugate and 3,3',5,5' tetramethylbenzidine (TMB). Optical density is read at 450 nm with a microplate reader. The complete set of necessary controls to validate the results obtained are included in the kits.



HERPES CONSENSUS GENERIC

PRODUCT INFORMATION

COMPLETE KIT

67-090

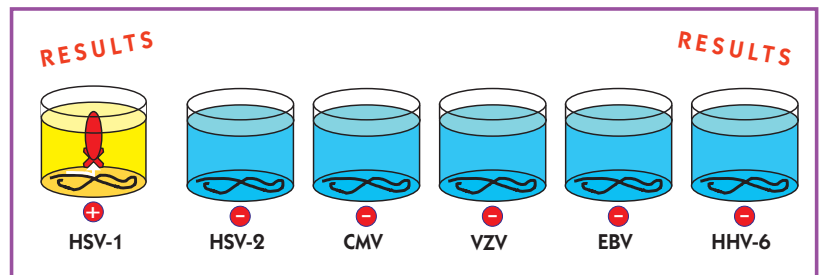
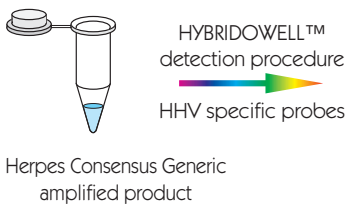
PRINCIPLE OF THE TEST	SCREENING OF CMV, HSV-1, HSV-2, VZV, EBV, HHV-6 BY END-POINT PCR.
TECHNOLOGY	END-POINT PCR. CONSENSUS AMPLIFICATION HYBRIDOWELL™ DETECTION IN MICROTITER PLATE.
GENE TARGET	GENE CODING FOR DNA POLYMERASE OF THE SIX VIRUSES: CMV, HSV-1, HSV-2, VZV, EBV, HHV-6.
SPECIMEN	CSF, AQUEOUS HUMOR, TEARS, GYNAECOLOGICAL SPECIMENS. BIOPSY, CUTANEOUS SPECIMEN, BAL, VESICULAR FLUID, URINE, SERUM, PLASMA, SWAB FROM LESION.
LIMIT OF DETECTION	CMV: 15 COPIES/PCR HSV-1: 15 COPIES/PCR HSV-2: 1.5 COPY /PCR VZV: 15 COPIES/PCR EBV: 1.5 COPY /PCR HHV-6: 1.5 COPY /PCR
CONTROLS INCLUDED	INHIBITION CONTROL. POSITIVE CONTROL. NEGATIVE CONTROL.
RESULTS WITHIN	1 DAY.
RESULTS	QUALITATIVE.
REPORTING UNITS	O.D. UNITS (OPTICAL DENSITY).
NUMBER OF TESTS	192 TESTS.
KIT STORAGE	+2°C/+8°C FOR REF.: 67-000. -18°C/-22°C FOR REF.: 67-090B. +2°C/+8°C FOR REF.: 67-090C.
NECESSARY EQUIPMENT	THERMOCYCLER. MICROTITER PLATE READER.
STATUS	FOR <i>IN VITRO</i> DIAGNOSTIC USE, CE MARKING IN EUROPE - PLEASE INQUIRE. USA: FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.

HYBRIDOWELL™ HERPES Identification Assay

USE FOR Identification of positive samples obtained with HERPES CONSENSUS GENERIC kit.

- HYBRIDOWELL™ HERPES Identification (for 67-090) 96 tests 67-050

The **HYBRIDOWELL™ HERPES Identification** kit allows the identification of the specific virus present in the positive samples obtained with HERPES CONSENSUS GENERIC kit (ref.: 67-090). This typing is performed by using the same amplified material obtained with the HERPES CONSENSUS GENERIC kit, no further amplification is required. The HERPES CONSENSUS GENERIC and **HYBRIDOWELL™ HERPES Identification** kits allow detection of Herpes simplex types 1 and 2 (HSV-1 and HSV-2), Cytomegalovirus (CMV), Varicella Zoster Virus (VZV), Epstein-Barr Virus (EBV), and Herpes virus 6 (HHV-6) which are all major agents of central nervous system infections. Mortality rate for encephalitis is still high, although some specific antiviral treatments are available. Herpes 1 and 2 are responsible for 20 to 70% of necrotizing encephalitis. The clinical signs produced during central nervous attacks do not allow clinical differentiation of the precise herpesvirus etiology. The rapid and precise Herpesvirus determination, along with other clinical supportive data, could allow an early initiation of adapted antiviral therapy to improve patient prognosis. Classical diagnostic procedures for these viruses, particularly cultures, are not adapted to most central nervous system specimens (inhibitions, important inoculum volumes). For these reasons **Argene HERPES CONSENSUS GENERIC** kit and **HYBRIDOWELL™ HERPES Identification** kit allow rapid detection and typing of these viral genomes and could be important in these pathologies. Positive samples detected with HERPES CONSENSUS GENERIC kit (ref.: 67-090) may be further analyzed through **HYBRIDOWELL™ HERPES Identification** kit in order to determine the exact virus involved. The amplified product obtained with HERPES CONSENSUS GENERIC kit (ref.: 67-090), is used again for the identification assay without the need for re-extraction or re-amplification. Each amplified product is hybridized with 6 Herpesvirus specific biotinylated probes on a microtiter plate. Detection is performed with a streptavidine peroxidase conjugate and 3,3',5,5' tetramethylbenzidine (TMB). Optical density is read at 450 nm with a microplate reader. The complete set of necessary controls to validate the results obtained are included in the kits (including positive controls). This kit allows one to identify up to 14 positive samples depending on the number of tests per series.



HYBRIDOWELL™ HERPES IDENTIFICATION

PRODUCT INFORMATION

67-050

PRINCIPLE OF THE TEST	CMV, HSV-1, HSV-2, VZV, EBV, HHV-6 GENOME IDENTIFICATION.
TECHNOLOGY	HYBRIDOWELL™ DETECTION IN MICROTITER PLATE.
SPECIMEN	SAMPLES AMPLIFIED WITH ARGENE HERPES CONSENSUS GENERIC KIT (REF.: 67-090).
LIMIT OF DETECTION	CMV: 15 COPIES/PCR HSV-1: 15 COPIES/PCR HSV-2: 1.5 COPY /PCR VZV: 15 COPIES/PCR EBV: 1.5 COPY /PCR HHV-6: 1.5 COPY /PCR
CONTROLS INCLUDED	POSITIVE CONTROL FOR EACH VIRUS. NEGATIVE CONTROL.
RESULTS WITHIN	3 H. 25.
RESULTS	QUALITATIVE.
REPORTING UNITS	O.D. UNITS (OPTICAL DENSITY).
NUMBER OF TESTS	96 TESTS.
KIT STORAGE	+2°C/+8°C.
NECESSARY EQUIPMENT	MICROTITER PLATE READER.
STATUS	FOR <i>IN VITRO</i> DIAGNOSTIC USE, CE MARKING IN EUROPE - PLEASE INQUIRE. USA: FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.

ENTEROVIRUS CONSENSUS Assay

USE FOR Enterovirus consensus amplification.

- ENTEROVIRUS CONSENSUS - Amplification/Detection

50 samples 67-080BC

ENTEROVIRUS CONSENSUS has been designed to detect the RNA genome of all enterovirus serotypes including Poliovirus 1-3, Coxsackievirus A1-22, A24, Coxsackievirus B1-6, Echovirus 1-9, 11-21, 24-27, 29-33 and Enterovirus 68-71 (recently reclassified in the Parechovirus genus, Echovirus 22 and 23 are not detected with this kit). In temperate climates, enterovirus infections occur seasonally. Enteroviruses are often associated as causal agents of meningitis, but have also been associated with cardiopathic, respiratory disorders, muco-cutaneous pathologies and febrile disease in neonates. The Polioviruses are associated with Poliomyelitis, a disease which is rarely encountered clinically due to widespread vaccination. Diagnosis of enterovirus infections done by viral culture isolation does not allow the detection of all serotypes, particularly Coxsackievirus group A, which does not grow in culture. Moreover enterovirus isolation by cell culture from a CSF specimen is often difficult (inhibitors) and requires several days of incubation.

The **ENTEROVIRUS CONSENSUS** kit allows rapid and sensitive enterovirus-specific genome detection. After RNA isolation, the **ENTEROVIRUS CONSENSUS** assay allows a one step RT-PCR for all enterovirus serotypes in one single reaction tube. The amplified region is in the 5' non coding region of the genome. **HYBRIDOWELL™** detection is performed with a biotinylated enterovirus generic probe. These results are validated with positive and inhibition controls included in the kit. Correlated with other clinical supportive data, the results obtained with **ENTEROVIRUS CONSENSUS** allows an immediate discontinuation of antibacterial therapy and allows an initiation of an appropriate antiviral therapy.



ENTEROVIRUS CONSENSUS

AMPLIFICATION/DETECTION KIT

PRODUCT INFORMATION

67-080 BC

PRINCIPLE OF THE TEST	DETECTION OF ENTEROVIRUS BY END-POINT PCR.
TECHNOLOGY	END-POINT PCR. REVERSE TRANSCRIPTION + CONSENSUS AMPLIFICATION IN 1 STEP. HYBRIDOWELL™ DETECTION IN MICROTITER PLATE.
GENE TARGET	5' NON CODING REGION.
SPECIMEN	CSF, STOOL, THROAT SPECIMENS, NASOPHARYNGEAL SECRETIONS. PALPEBRAL CONJUNCTIVA SPECIMEN, MYOCARDIAL BIOPSY, PERICARDIAL FLUID.
LIMIT OF DETECTION	30 COPIES/PCR.
CONTROLS INCLUDED	INHIBITION CONTROL. POSITIVE CONTROL. NEGATIVE CONTROL.
RESULTS WITHIN	1 DAY.
RESULTS	QUALITATIVE.
REPORTING UNITS	O.D. UNITS (OPTICAL DENSITY).
NUMBER OF TESTS	192 TESTS.
KIT STORAGE	-18°C/-22°C FOR REF.: 67-080B. +2°C/+8°C FOR REF.: 67-080C.
NECESSARY EQUIPMENT	THERMOCYCLER. MICROTITER PLATE READER.
STATUS	FOR <i>IN VITRO</i> DIAGNOSTIC USE, CE MARKING IN EUROPE - PLEASE INQUIRE.

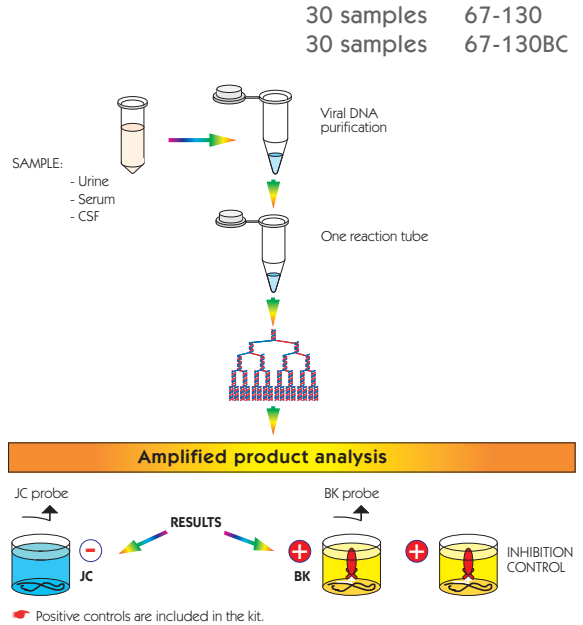
JC/BK CONSENSUS Assay

USE FOR Consensus amplification and differentiation of JCV and BKV.

- JC/BK CONSENSUS - Complete kit
- JC/BK CONSENSUS - Amplification/Detection

The **JC/BK CONSENSUS** kit allows the simultaneous detection and identification of JC virus (JCV) and BK virus (BKV) genomes in urine, serum, plasma, and cerebrospinal fluid (CSF). JC and BK viruses belong to the polyomaviridae family. Primo-infections are asymptomatic or occur with non specific signs from childhood. JCV reactivation in immunocompromized patients is responsible for progressive multifocal leukoencephalopathy (PML). In this case, JCV can be detected in CSF. Severe nephropathies are associated with BKV reactivation for renal or bone marrow transplanted patients. In this case BKV can be detected in urine and/or serum.

The **JC/BK CONSENSUS** kit allows the detection and the identification of both viruses and consequently helps in the therapy and the prognosis orientation of these severe opportunistic infections. After extraction, JCV and BKV are amplified in one single reaction tube and detected in a microtiter plate using hybridization with two specific biotinylated probes. Results are validated via inhibition and positive controls included in the kit.



JC/BK CONSENSUS

COMPLETE KIT

PRODUCT INFORMATION

67-130

PRINCIPLE OF THE TEST	GENOMIC DETECTION AND DISCRIMINATION OF JCV AND BKV BY END-POINT PCR.
TECHNOLOGY	END-POINT PCR. CONSENSUS AMPLIFICATION. HYBRIDOWELL™ DETECTION IN MICROTITER PLATE.
GENE TARGET	JCV: T ANTIGEN REGION. BKV: T ANTIGEN REGION.
SPECIMEN	URINE, SERUM, PLASMA, CSF.
LIMIT OF DETECTION	JCV: 10 COPIES/PCR. BKV: 1 COPY/PCR.
CONTROLS INCLUDED	INHIBITION CONTROL. POSITIVE CONTROL. NEGATIVE CONTROL.
RESULTS WITHIN	1 DAY.
RESULTS	QUALITATIVE.
REPORTING UNITS	O.D. UNITS (OPTICAL DENSITY).
NUMBER OF TESTS	192 TESTS.
KIT STORAGE	+2°C/+8°C FOR REF.: 67-000. -18°C/-22°C FOR REF.: 67-130B. +2°C/+8°C FOR REF.: 67-130C.
NECESSARY EQUIPMENT	THERMOCYCLER. MICROTITER PLATE READER.
STATUS	FOR <i>IN VITRO</i> DIAGNOSTIC USE, CE MARKING IN EUROPE - PLEASE INQUIRE. USA: FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.

ADENOVIRUS CONSENSUS

67-065 

ADENOVIRUS CONSENSUS Assay

USE FOR Human Adenovirus consensus amplification.

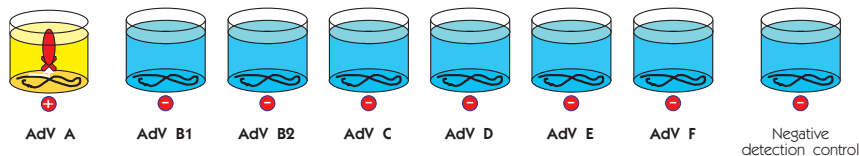
- ADENOVIRUS CONSENSUS - Complete kit
- ADENOVIRUS CONSENSUS - Amplification/Detection

50 samples 67-065
50 samples 67-065BC

The **ADENOVIRUS CONSENSUS** kit allows the detection of adenovirus genomes, in biological samples (nasopharyngeal secretions, stool and biopsy) using hybridization in a microtiter plate with a biotinylated probe following purification of DNA and genomic amplification. The consensus amplification allows the screening of all adenovirus serotypes in one single amplification tube. The detection allows the screening of adenovirus with a generic probe. Specific probes provided with the kit ensure the typing of the 7 adenovirus species (A, B1, B2, C, D, E and F) following the typing protocol. The adenovirus (AdV) group includes more than 50 serotypes divided into 7 species (Human adenovirus followed by a letter) according to their biological properties. Adenovirus infection can be benign to severe especially for immunocompromised patients. The conventional methods like culture, immunofluorescence, agglutination, and immunoenzyme techniques are less sensitive than the genomic detection system used with the **ADENOVIRUS CONSENSUS** kit. **ADENOVIRUS CONSENSUS** allows an early detection of disseminated adenovirus infection and improves the follow up of patients under treatment.



If sample is positive, perform the typing with the same amplified product.



ADENOVIRUS CONSENSUS

COMPLETE KIT

PRODUCT INFORMATION

67-065

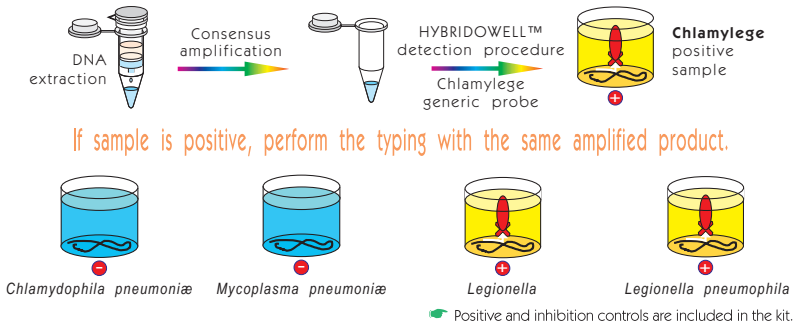
PRINCIPLE OF THE TEST	SCREENING AND TYPING OF ALL ADENOVIRUS SPECIES BY END-POINT PCR.
TECHNOLOGY	END-POINT PCR. CONSENSUS AMPLIFICATION. HYBRIDOWELL™ DETECTION IN MICROTITER PLATE.
GENE TARGET	VA RNA GENE.
SPECIMEN	NASOPHARYNGEAL SECRETIONS, BIOPSY, STOOL. RECTAL SWAB, SMALL INTESTINE, NASOPHARYNGEAL SWAB, OPHTHALMOLOGIC SAMPLE, URINE.
LIMIT OF DETECTION	60-125 COPIES/PCR.
CONTROLS INCLUDED	INHIBITION CONTROL. POSITIVE CONTROL. NEGATIVE CONTROL.
RESULTS WITHIN	1 DAY.
RESULTS	QUALITATIVE.
REPORTING UNITS	O.D. UNITS (OPTICAL DENSITY).
NUMBER OF TESTS	192 TESTS.
KIT STORAGE	+2°C/+8°C FOR REF.: 67-000. -18°C/-22°C FOR REF.: 67-065B. +2°C/+8°C FOR REF.: 67-065C.
NECESSARY EQUIPMENT	THERMOCYCLER. MICROTITER PLATE READER.
STATUS	FOR <i>IN VITRO</i> DIAGNOSTIC USE, CE MARKING IN EUROPE - PLEASE INQUIRE.

CHLAMYLEGE Assay

USE FOR Amplification and detection of *Chlamydophila pneumoniae*, *Legionella* and *Mycoplasma pneumoniae*.

- CHLAMYLEGE - Complete kit 50 samples 67-025
- CHLAMYLEGE - Amplification/Detection 50 samples 67-025BC

The **CHLAMYLEGE** kit allows simultaneous screening and identification of *Chlamydophila pneumoniae*, *Legionella* and *Mycoplasma pneumoniae* by amplification in respiratory specimens. *Chlamydophila pneumoniae*, *Legionella* and *Mycoplasma pneumoniae* are bacteria frequently found among the pathogenic agents responsible for atypical pneumopathies. These atypical pneumopathies represent a strong proportion (25 to 50%) of the pneumopathies listed even in hospitals. Traditional techniques (immunological tests or culture) are not suitable to guide a quick initial antimicrobial therapy. They are time consuming (longer than 3 days) and are not sensitive enough to get an accurate etiologic diagnosis. The use of **CHLAMYLEGE** simplifies the etiologic research of atypical pneumopathies. This sensitive technique makes simultaneous detection of *Chlamydophila pneumoniae*, *Legionella* and *Mycoplasma pneumoniae* possible. After DNA isolation, the **CHLAMYLEGE** assay uses a single tube format for genic amplification of *Chlamydophila pneumoniae*, *Legionella* and *Mycoplasma pneumoniae*. The amplified products are detected on a microtiter plate after hybridization with biotinylated probes which are generic and/or specific of each bacteria group. In addition, a specific *Legionella pneumophila* probe provided with the kit allows to precise a positive result obtained with the *Legionella* generic probe. The accuracy of the results is validated by the inhibition and the positive controls included with the kit.



CHLAMYLEGE

COMPLETE KIT

PRODUCT INFORMATION

67-025

PRINCIPLE OF THE TEST	CONSENSUS AMPLIFICATION AND IDENTIFICATION OF <i>CHLAMYDOPHILA PNEUMONIAE</i> , <i>LEGIONELLA</i> AND <i>MYCOPLASMA PNEUMONIAE</i> .
TECHNOLOGY	END-POINT PCR. CONSENSUS AMPLIFICATION. HYBRIDOWELL™ DETECTION IN MICROTITER PLATE.
GENE TARGET	<i>CHLAMYDOPHILA PNEUMONIAE</i> : OMP2 REGION. <i>MYCOPLASMA PNEUMONIAE</i> : P1 ADHESION GENE. <i>LEGIONELLA</i> : 5S-23S INTERGENIC RNA SPACER.
SPECIMEN	RESPIRATORY SAMPLES.
LIMIT OF DETECTION	<i>CHLAMYDOPHILA PNEUMONIAE</i> : 50 COPIES/PCR. <i>MYCOPLASMA PNEUMONIAE</i> : 50 COPIES/PCR. <i>LEGIONELLA</i> : 50 COPIES/PCR.
CONTROLS INCLUDED	INHIBITION CONTROL. POSITIVE CONTROL. NEGATIVE CONTROL.
RESULTS WITHIN	1 DAY.
RESULTS	QUALITATIVE.
REPORTING UNITS	O.D. UNITS (OPTICAL DENSITY).
NUMBER OF TESTS	192 TESTS.
KIT STORAGE	+2°C/+8°C FOR REF.: 67-000. -18°C/-22°C FOR REF.: 67-025B. +2°C/+8°C FOR REF.: 67-025C.
NECESSARY EQUIPMENT	THERMOCYCLER. MICROTITER PLATE READER.
STATUS	FOR <i>IN VITRO</i> DIAGNOSTIC USE, CE MARKING IN EUROPE - PLEASE INQUIRE. USA: FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.

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CINAKit HCMV ppUL83 (pp65) RAPID ANTIGENEMIA Complete kit

USE FOR HCMV ppUL83 immunofluorescence Antigenemia in 2 hours directly on leukocytes.

USE FOR HCMV ppUL83 Antigenorachia (research use only).

- CINAKit complete kit HCMV ppUL83 (pp65) I.F. Antigenemia 100 tests 19-002
- CINAKit complete kit HCMV ppUL83 (pp65) I.F. Antigenemia 200 tests 19-0028

The optimized blend of clones (CINApool) is specific for the internal matrix structural phosphoprotein 65-68 kDa ppUL83 (pp65), which appears in the nuclei of infected cells within one hour post infection, and represents uptake from the virus inoculum. This blend labels two different epitopes expressed in the nuclei of infected peripheral blood polymorphonuclear leukocytes and monocytes, following blood born dissemination (it can also be used on cellular cerebro-spinal fluid). The HCMV isolation from leukocytes of peripheral blood and/or ppUL83 Antigenemia is evidence of an active systemic infection. The ppUL83 Antigenemia appears earlier and is positive for a longer period than viremia as demonstrated by co-culture. It is also a clearly shorter procedure (results within 2 hours). It enables the diagnosis and follow up of HCMV disseminated infections in graft recipients and AIDS patients notably. Immunofluorescence is the only recommended detection method, although others can be used. However different studies show that any technique used to block endogenous enzymatic activity (peroxidase or alkaline phosphatase), also destroys a significant level of the ppUL83 antigen. No cross reactivity with other Herpesviridae.

This blend has multiple advantages:

1/ This antibody pool labels different epitopes expressed in the nuclei of infected peripheral blood polymorphonuclear leukocytes and monocytes, and thus ensures avoiding false negatives that can be caused by a mutation of one of the epitopes recognized, since a double mutation in two specific parts of the antigen is at very low risk.

2/ Improved reading even if the sample does not reach the laboratory under optimum conditions.

3/ This anti ppUL83 pool is also of interest since it stains a higher number of cells in positive samples when compared to a monoclonal alone.

4/ To date, no lack of sensitivity has been reported with this kit regardless of the CMV strain studied.

Important: secondary antibodies other than the one provided in the kit can give cytoplasmic background.

**CINAKIT HCMV COMPLETE KIT****PRODUCT INFORMATION 19-002 / 19-0028**

PRINCIPLE OF THE TEST	DETECTION OF HCMV IN PERIPHERAL BLOOD.
TECHNOLOGY	IMMUNOFLUORESCENCE.
EPITOP TARGET	PPUL83 (PP65).
SPECIMEN	PERIPHERAL BLOOD, CSF.
SENSITIVITY OF THE TEST	96.4% VS CULTURE.
RESULT WITHIN	2 HOURS.
REPORTING UNITS	NUMBER OF POSITIVE CELLS FOR 2×10^5 CELLS.
NUMBER OF TESTS	19-002: 100 TESTS. 19-0028: 200 TESTS.
NUMBER OF PATIENTS	19-002: 50 PATIENTS. 19-0028: 100 PATIENTS.
KIT STORAGE	+2°C/+8°C.
NECESSARY EQUIPMENT	CYTOCENTRIFUGE (CYTOSPIN 2 OR 3, SHANDON).
STATUS	FOR <i>IN VITRO</i> DIAGNOSTIC USE, CE MARKING IN EUROPE - PLEASE INQUIRE. USA: KIT 19-0028 IS REGISTERED BY FDA FOR <i>IN VITRO</i> DIAGNOSTIC USE. CODE 19-002 NOT AVAILABLE IN THE USA.

Reagents for HCMV ppUL83 (pp65)

Reagents for HCMV ppUL83 (pp65) Antigenemia



USE FOR Ancillary reagents for HCMV ppUL83 Antigenemia.

• PBS pH: 7.2 without Ca ²⁺ and Mg ²⁺	powder	-	4 x 1 liter	33-011
• Rapid lysis solution for CINAKit 19-002	-	20x	45 mL	19-002B
• Fixative solution for CINAKit 19-002	-	5x	110 mL	19-002C
• Permeabilization solution for CINAKit 19-002	-	5x	110 mL	19-002E
• Mounting medium for CINAKit 19-002	-	-	4 mL	19-002J
• Dextran 6% for CINAKit 19-002	-	1x	60 mL	19-002K
• Control slide CYTOMEGALOVIRUS IEA-EA	specimen	2+ / 2-	5 slides	40-022
• Antibodies dilution buffer for CINApool 11-002	-	1x	4.5 mL	11-002G
• Evans blue 1% for CINApool 11-002	-	-	250 µL	11-002I

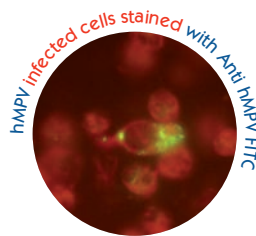
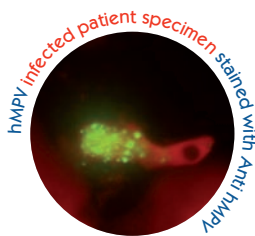
Reagents and complementary small material available through **Argene** for HCMV ppUL83 Antigenemia.

OPTIMIZED RESPIRATORY VIRUSES ANTIBODIES

ANTI hMPV FITC

REF.: 17-270

This murine monoclonal antibody recognizes a cytoplasmic antigen specific for human metapneumovirus (types A and B). No cross reactivity with other respiratory viruses. In immunofluorescence, the antibody shows a cytoplasmic staining.

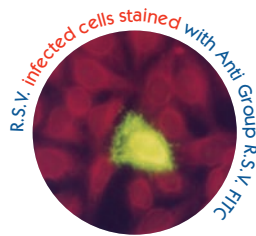
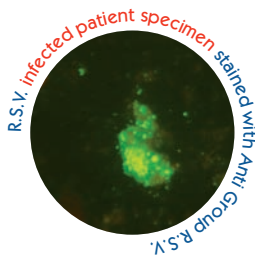


hMPV

ANTI R.S.V. FITC

REF.: 17-042

This murine monoclonal antibody recognizes the F0 (70 kDa) and F1 (48 kDa) subunits of the RSV fusion protein present on all RSV strains (A & B). The affinity of this antibody is exceptionally high, and is responsible for its 100% specificity. It neutralizes the ability of RSV to infect sensitive cells in vitro. It also inhibits the cellular fusion caused by RSV. In immunofluorescence, this antibody shows a cytoplasmic staining. SEE ALSO CONTROL SLIDES.

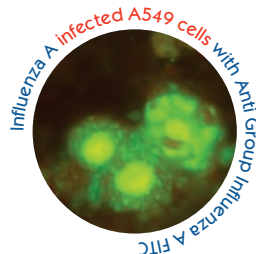
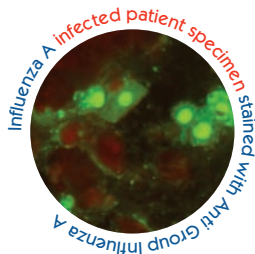


R.S.V.

ANTI INFLUENZA A FITC

REF.: 17-030

This murine monoclonal antibody recognizes a 60 kDa group specific nucleoprotein common to all Influenza A subtypes (H0N1, H1N1, H2N2, H3N2) and variants tested. No cross reactivity with Influenza B and other respiratory viruses. In immunofluorescence, this antibody shows both a cytoplasmic and nuclear staining. SEE ALSO CONTROL SLIDES.

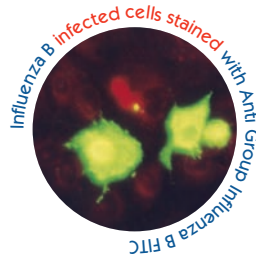
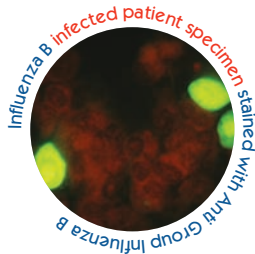


I. A

ANTI INFLUENZA B FITC

REF.: 17-035

This murine monoclonal antibody recognizes an Influenza B virus group specific antigen. No cross-reactivity with influenza A or with other respiratory viruses. In immunofluorescence, this antibody shows a cytoplasmic staining. SEE ALSO CONTROL SLIDES.

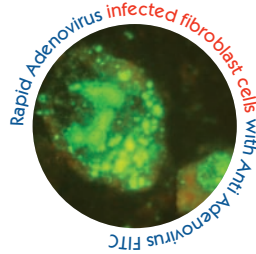
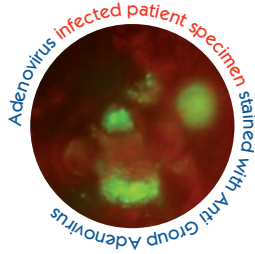


I. B

ANTI ADENOVIRUS FITC

REF.: 17-020

This optimized pool of murine monoclonal antibodies allows the detection of the entire Adenovirus group. It can be used in Immunofluorescence on nasopharyngeal secretions or on infected cell culture (MRC-5, A549, H292, HeLa). In immunofluorescence, those antibodies show a nuclear staining. SEE ALSO CONTROL SLIDES.

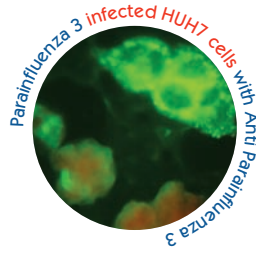
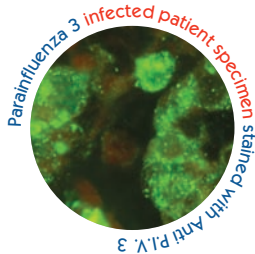


Adv

ANTI P.I.V. 3 FITC

REF.: 17-038

These murine monoclonal antibodies are Parainfluenza type 3 HA-1 and HN virus antigen specific. No cross-reactivity with other Parainfluenzae or respiratory viruses. In immunofluorescence, those antibodies show a cytoplasmic staining. SEE ALSO CONTROL SLIDES.



P.I.V. 3

For in vitro diagnostic use, CE marking in Europe - Please inquire.
USA: For research use only. Not for use in diagnostic procedures.

Respiratory Virus Antibodies Product Line

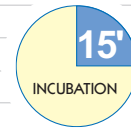
Ready-to-use antibody blends and typing reagents:

FITC Mab - 80 tests - dropper-bottle - 4 mL



Cata. No.:

17-020	Anti-ADENOVIRUS GROUP FITC
17-030	Anti-INFLUENZA A GROUP FITC
17-035	Anti-INFLUENZA B GROUP FITC
17-036	Anti-PARAINFLUENZA 1 FITC
17-037	Anti-PARAINFLUENZA 2 FITC
17-038	Anti-PARAINFLUENZA 3 FITC
17-040	Anti-PARAINFLUENZA GROUP FITC
17-042	Anti-RSV GROUP FITC
17-091	Anti-ADENOVIRUS, INFLUENZA, PARAINFLUENZA GROUP FITC
17-092	Anti-ADENOVIRUS, INFLUENZA, PARAINFLUENZA, RSV GROUP FITC
17-270	Anti-HUMAN METAPNEUMOVIRUS FITC



All Formats are available:

Cata. No.	Mab Description	# tests	Quantity	Format
17-XXX*	FITC Mab	80 tests	4 mL	Dropper-bottle
11-XXX*	Purified Mab	650 tests	0.5 mL	Concentrated
12-XXX*	FITC Mab	650 tests	0.5 mL	Concentrated

**Use the individual code of each specific respiratory virus antibody.*

Additional Components:

Product Name	Quantity	Cata. No.	Intended Use
PBS	4 x 1L	33-011	Washing & dilution buffer
Mounting medium for IF	15 mL	33-041	Mount microscope coverslips

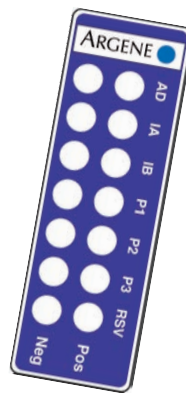
Antigen Control Slides:



ref.: 40-121



ref.: 40-061

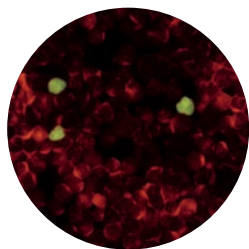


ref.: 40-161



ref.: 40-111

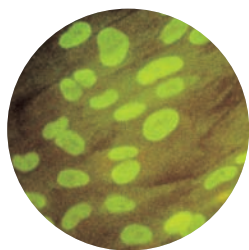
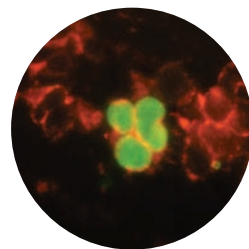
Herpes Virus Antibodies Product Line



ANTI **HCMV** ppUL83 (pp65)

CINAKIT / CINAPool

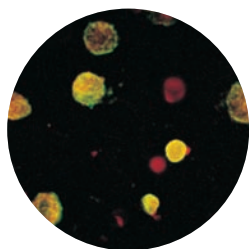
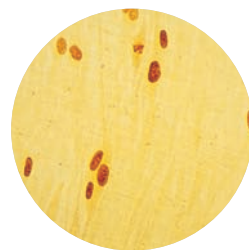
HCMV ppUL83 Antigenemia after 2 hours directly on peripheral blood leukocytes.



ANTI **HCMV**

IMMEDIATE EARLY ANTIGEN (I.E.A.)

HCMV Antigen detection in 24-48 h. culture from clinical specimens.

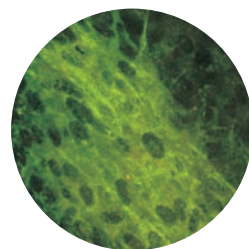


ANTI **HSV-1**

Infected cell culture detection.

ANTI **VZV**

Infected cell culture detection (Early detection on MRC-5 cells).



Herpes Virus Antibodies Product Line

Anti CMV ppUL83 (pp65) CINApool

USE FOR HCMV ppUL83 Antigenemia 2 hours directly on peripheral blood leukocytes.

USE FOR HCMV ppUL83 Antigenorachia (research use only).

- | | | | |
|---|-----------|--------------|--------|
| • anti HCMV ppUL83 (pp65) CINApool purified | 330 tests | 0.5 mL (20x) | 11-002 |
| • anti HCMV ppUL83 (pp65) CINApool & Secondary F(ab') ₂ FITC | 330 tests | 0.5 mL (20x) | 14-002 |

The optimized blend of murine clones (CINApool) is specific for the internal matrix structural phosphoprotein 65-68 kDa ppUL83 (protein kinase, pp65 or p65), which appears in the nuclei of infected cells within one hour post infection, and represents uptake from the viral inoculum. This blend labels two different epitopes expressed in the nuclei of infected peripheral blood polymorphonuclear leukocytes and monocytes, following blood borne dissemination (It can also be used on cellular cerebro-spinal fluid). The HCMV isolation from leukocytes of peripheral blood and/or ppUL83 Antigenemia is evidence for an active systemic infection. The ppUL83 Antigenemia appears earlier and is positive for a longer period than viremia as demonstrated by co-culture. It is also a clearly shorter procedure (results within 2 hours). It enables the diagnosis and follow up of HCMV disseminated infections in graft recipients and AIDS patients. Immunofluorescence is the only detection method recommended, although others can be used. However different studies show that any technique used to block endogenous enzymatic activity (peroxidase or alkaline phosphatase), also destroys a significant level of the ppUL83 antigen. No cross-reactivity with other Herpesviridae.

This blend has multiple advantages:

1/ This antibody pool labels different epitopes expressed in the nuclei of infected peripheral blood polymorphonuclear leukocytes and monocytes, and thus ensures avoiding false negatives that can theoretically be caused by mutation of one of the epitope recognized since a double mutation in two specific parts of the antigen is at very low risk.

2/ Improved reading even if the sample does not reach the laboratory under optimum conditions.

3/ This anti ppUL83 pool is also of interest since it stains a higher number of cells in positive samples when compared to a monoclonal alone.

Important: secondary antibodies other than the one recommended can give cytoplasmic background.

SEE ALSO CONTROL SLIDES page 39.

*For in vitro diagnostic use, CE marking in Europe - Please inquire.
USA: For research use only. Not for use in diagnostic procedures.*

Anti CMV pool I.E.A + E.A

USE FOR HCMV Antigen detection in 24-48 h culture from clinical specimens.

USE FOR HCMV Antigen detection by direct immunofluorescence slide test.

- | | | | |
|--------------------------------|--------------|--------------|--------|
| • anti HCMV I.E.A+E.A purified | Concentrated | 0.5 ml (50x) | 11-004 |
|--------------------------------|--------------|--------------|--------|

This pool of murine monoclonal antibodies improves the sensitivity of antigen detection in culture at 48 hours post infection and of direct immunofluorescence slide test in BAL. The first antibody recognizes an Immediate Early Antigen which can be detected 2 h post infection, the second antibody recognizes an Early Antigen which can be detected 12 hours post infection. Both antibodies give nuclear staining. No cross-reactivity with other Herpesviridae. Suitable for use in cultures from blood (Buffy coat), BAL, CSF, urine, amniotic fluid and in immunohistochemistry on lung, liver, kidney, colon, brain, nerves...

SEE ALSO CONTROL SLIDES page 39.

For research use only.

Anti CMV Immediate Early Antigen

USE FOR HCMV Antigen detection in 24-48 h culture from clinical specimens.

USE FOR HCMV Antigen detection on frozen or dewaxed tissue sections.

USE FOR HCMV in vitro sensitivity determination to antiviral drugs.

- | | | | | |
|----------------------------|---|--------------|--------------|--------|
| • anti HCMV I.E.A purified | - | Concentrated | 0.5 ml (50x) | 11-003 |
|----------------------------|---|--------------|--------------|--------|

This murine monoclonal antibody recognizes the Immediate Early non structural proteins 52, 72 and 86 kDa. The common epitope labelled is encoded by exon 2 of the Major Immediate Early gene. This antigen appears 2 hours after cell infection, reaches the intensity peak at 48 hours and persists during the entire HCMV infection cycle. It gives a specific nuclear fluorescence. No cross-reactivity with HSV-1, HSV-2, VZV, EBV and ADV. Suitable for use in cultures from blood (Buffy coat), BAL, CSF, urine, amniotic fluid and in immunohistochemistry on lung, liver, kidney, colon, brain, nerve...

SEE ALSO CONTROL SLIDES page 39.

*For in vitro diagnostic use, CE marking in Europe - Please inquire.
USA: For research use only. Not for use in diagnostic procedures.*

Herpes Virus Antibodies Product Line

Anti HSV-1

USE FOR Infected cell culture detection.

USE FOR Research (Western blot, EIA, Immunofluorescence).

- anti HSV-1 purified

250 tests

7.5 mL

11-088

This murine monoclonal antibody reacts with HSV type 1 cytoplasmic protein. For use on infected cell culture. IF, EIA, and ELISA.
SEE ALSO CONTROL SLIDES page 39.

For research use only.

Anti HSV-2

USE FOR Infected cell culture detection.

USE FOR Research (Western blot, EIA, Immunofluorescence).

- anti HSV-2 purified

250 tests

7.5 mL

11-089

This murine monoclonal antibody is specific for HSV type 2. For use on infected cell culture.
SEE ALSO CONTROL SLIDES page 39.

For research use only.

Anti HSV-1+2

USE FOR Rapid immunofluorescence detection on skin or mucous membrane.

USE FOR Infected cell culture detection (from vesicles or bronchoalveolar lavage).

USE FOR Research (EIA).

- anti HSV-1 + 2 purified
- anti HSV-1 + 2 FITC
- anti HSV-1 + 2 FITC

250 tests

7.5 mL

11-090

250 tests

7.5 mL

12-090

80 tests

2.5 mL

17-090

This murine monoclonal antibody recognizes a HSV type 1 and HSV type 2 common antigen (glycoprotein). It labels direct samples (skin biopsies, genital samples, vesicular or conjunctive rashes and broncho-alveolar lavages) with a very good sensitivity. It can be used also for early and rapid detection of Herpes infection after inoculation of cell culture.
SEE ALSO CONTROL SLIDES page 39.

*For in vitro diagnostic use, CE marking in Europe - Please inquire.
USA: For research use only. Not for use in diagnostic procedures.*

Herpes Virus Antibodies Product Line

Anti VZV

USE FOR Rapid immunofluorescence detection (on vesicular or conjunctive rash, skin biopsy).

USE FOR Infected cell culture detection (Early detection on MRC-5 cells).

USE FOR Research (Immunohistochemistry).

- | | | | |
|--|-----------|----------------|--------|
| • anti VARICELLA ZOSTER VIRUS purified | 650 tests | 0.5 mL (40x) | 11-017 |
| • anti VARICELLA ZOSTER VIRUS FITC | 80 tests | dropper bottle | 17-017 |

This murine monoclonal antibody is specific for VZV GP63 and shows a nuclear staining in infected cells. No cross-reactivity with other Herpesviridae. In immunocompromised patients (AIDS, or graft recipients). Varicella Zoster Virus (VZV) and Herpes Simplex Virus (HSV) can be responsible for disseminated infections and vesicles which often are difficult to distinguish and are sometimes atypical. Since the antiviral treatment with Zovirax® is more efficient on HSV (10 to 20 times) than on VZV, it is useful to differentiate HSV from VZV.

SEE ALSO CONTROL SLIDES page 39.

For research use only.

Anti VZV

USE FOR Rapid immunofluorescence detection (on vesicular or conjunctive rash, skin biopsy).

USE FOR Infected cell culture detection (Early detection on MRC-5 cells).

USE FOR Research (Immunofluorescence, EIA).

- | | | | |
|--|-----------|--------------|--------|
| • anti VARICELLA ZOSTER VIRUS purified | 650 tests | 0.5 mL (40x) | 11-018 |
|--|-----------|--------------|--------|

This murine monoclonal antibody is specific for VZV and shows a cytoplasmic and membrane staining. For early detection of VZV in MRC-5 cells infected with vesicular or conjunctive rash or skin biopsies.

SEE ALSO CONTROL SLIDES page 39.

For research use only.

Product List by Catalog Number

● 11-002	anti HCMV ppUL83 (pp65) CINApool purified	p.35	-	0.5 mL (20x)	330 tests
● 11-002G	Antibodies dilution buffer for CINApool 11-002	p.31	-	4.5 mL	1x
● 11-002l	Evans blue 1% for CINApool 11-002	p.31	-	250 µL	-
● 11-003	anti HCMV I.E.A purified	p.35	-	0.5 mL (50x)	Concentrated
11-004	anti HCMV I.E.A+E.A purified	p.35	-	0.5 mL (50x)	Concentrated
11-017	anti VARICELLA ZOSTER VIRUS purified	p.37	-	0.5 mL (40x)	650 tests
11-018	anti VARICELLA ZOSTER VIRUS purified	p.37	-	0.5 mL (40x)	650 tests
● 11-020	anti ADENOVIRUS GROUP purified	p.33	-	0.5 mL (40x)	650 tests
● 11-030	anti INFLUENZA A GROUP purified	p.33	-	0.5 mL (40x)	650 tests
11-033	anti HAV purified	-	-	250 µg / 0.5 mL	Concentrated
11-034	anti HAV purified	-	-	250 µg / 0.5 mL	Concentrated
● 11-035	anti INFLUENZA B GROUP purified	p.33	-	0.5 mL (40x)	650 tests
● 11-036	anti PARAINFLUENZA 1 purified	p.33	-	0.5 mL (40x)	650 tests
● 11-037	anti PARAINFLUENZA 2 purified	p.33	-	0.5 mL (40x)	650 tests
● 11-038	anti PARAINFLUENZA 3 purified	p.33	-	0.5 mL (40x)	650 tests
● 11-040	anti PARAINFLUENZA GROUP purified	p.33	-	0.5 mL (40x)	650 tests
● 11-042	anti RSV GROUP purified	p.33	-	0.5 mL (40x)	650 tests
● 11-045	anti MEASLES purified	-	-	0.5 mL (40x)	650 tests
11-046	anti MUMPS purified	-	-	0.5 mL (40x)	650 tests
11-088	anti HSV-1 purified	p.36	-	7.5 mL	250 tests
11-089	anti HSV-2 purified	p.36	-	7.5 mL	250 tests
● 11-090	anti HSV-1 + 2 purified	p.36	-	7.5 mL	250 tests
● 11-091	anti ADENO., INFLU., PARA. purified	p.33	-	0.5 mL (40x)	650 tests
● 12-020	anti ADENOVIRUS GROUP FITC	p.33	-	0.5 mL (40x)	650 tests
● 12-030	anti INFLUENZA A GROUP FITC	p.33	-	0.5 mL (40x)	650 tests
● 12-035	anti INFLUENZA B GROUP FITC	p.33	-	0.5 mL (40x)	650 tests
● 12-038	anti PARAINFLUENZA 3 FITC	p.33	-	0.5 mL (40x)	650 tests
● 12-040	anti PARAINFLUENZA GROUP FITC	p.33	-	1 mL (20x)	650 tests
● 12-042	anti RSV GROUP FITC	p.33	-	0.5 mL (40x)	650 tests
● 12-090	anti HSV-1 + 2 FITC	p.36	-	7.5 mL	250 tests
● 14-002	anti HCMV ppUL83 (pp65) CINApool & Secondary F(ab') ₂ FITC	p.35	-	0.5 mL (20x)	330 tests
17-017	anti VARICELLA ZOSTER VIRUS FITC	p.37	-	dropper bottle	80 tests
● 17-020	anti ADENOVIRUS GROUP FITC	p.32	-	dropper bottle	80 tests
● 17-030	anti INFLUENZA A GROUP FITC	p.32	-	dropper bottle	80 tests
● 17-035	anti INFLUENZA B GROUP FITC	p.32	-	dropper bottle	80 tests
● 17-036	anti PARAINFLUENZA 1 FITC	p.33	-	dropper bottle	80 tests
● 17-037	anti PARAINFLUENZA 2 FITC	p.33	-	dropper bottle	80 tests
● 17-038	anti PARAINFLUENZA 3 FITC	p.32	-	dropper bottle	80 tests
● 17-040	anti PARAINFLUENZA GROUP FITC	p.33	-	dropper bottle	80 tests
● 17-042	anti RSV GROUP FITC	p.32	-	dropper bottle	80 tests
● 17-090	anti HSV-1 + 2 FITC	p.36	-	2.5 mL	80 tests
● 17-091	anti ADENO., INFLU., PARA. FITC	p.33	-	dropper bottle	80 tests
● 17-092	anti ADENO., INFLU., PARA., RSV FITC	p.33	-	dropper bottle	80 tests
● 17-270	anti human METAPNEUMOVIRUS FITC	p.32	-	dropper bottle	80 tests
● 19-002	CINAKit - Complete kit HCMV ppUL83 (pp65) I.F. Antigenemia	p.30	-	-	100 tests

Product List by Catalog Number

● 19-0028	CINAKit - Complete kit HCMV ppUL83 (pp65) I.F. Antigenemia	p.30	-	200 tests
	19-0028US CINAKit Complete kit HCMV ppUL83(pp65) I.F. Antigenemia			200tests
● 19-002B	Rapid lysis solution for CINAKit 19-002	p.31	-	45 mL
● 19-002C	Fixative solution for CINAKit 19-002	p.31	-	110 mL
● 19-002E	Permeabilization solution for CINAKit 19-002	p.31	-	110 mL
● 19-002J	Mounting medium for CINAKit 19-002	p.31	-	4 mL
● 19-002K	Dextran 6% for CINAKit 19-002	p.31	-	60 mL
31-010	IF slides - Teflon coated - 6 mm wells		10 wells	100 slides
31-030	"Kova glasstic slides" for antigenemia		10 wells	100 slides
● 33-011	PBS pH: 7.2 without Ca2+ and Mg2+	p.31	Powder	4 x 1 liter
● 33-030	Evans blue 1%		Liquid	2 mL
● 33-041	Mounting medium for immunofluorescence	p.33	Liquid	dropper bottle
40-017	Control slide HERPES SIMPLEX TYPE 1 & 2		VR733/VR734	5 Slides
40-022	Control slide CYTOMEGALOVIRUS IEA-EA	p.31	Specimen	5 Slides
40-041	Control slide VARICELLA - ZOSTER		Specimen	5 Slides
40-061	Control slide ADENOVIRUS	p.33	CDC V5-002	5 Slides
40-071	Control slide INFLUENZA A		CDC V7-002	5 Slides
40-081	Control slide INFLUENZA B		CDC V4-004	5 Slides
40-091	Control slide PARAINFLUENZA 1		CDC V6-004	5 Slides
40-101-1	Control slide PARAINFLUENZA 2		CDC V7-003	5 Slides
40-111	Control slide PARAINFLUENZA 3	p.33	CDC V5-003	5 Slides
40-121	Control slide RSV	p.33	Specimen	5 Slides
40-161	Control slide PANEL ADV,IA,IB,VRS,P1,P2,P3	p.33	Idem	5 Slides
● 50-010	anti MOUSE IgG+IgM "human ads." FITC		Polyclonal	0.5 mL
● 50-011	anti MOUSE IgG+IgM "human ads." FITC		Polyclonal	1 mL
● 50-012	anti MOUSE IgG+IgM "human ads." FITC		Polyclonal	2 mL
50-021	anti MOUSE IgG+IgM "human ads." PEROXIDASE		Polyclonal	1 mL
50-022	anti MOUSE IgG+IgM "human ads." PEROXIDASE		Polyclonal	2 mL
● 51-010	F(ab') ₂ anti MOUSE IgG+IgM "human ads." FITC		Polyclonal	0.5 mL
● 51-011	F(ab') ₂ anti MOUSE IgG+IgM "human ads." FITC		Polyclonal	1 mL
65-001	UNG r-gene™		500 tests	-
● 67-012	HYBRIDOWELL™ Universal - Complete kit	p.21		96 tests
● 67-025	CHLAMYLEGE - Complete kit	p.27		50 samples
● 67-025BC	CHLAMYLEGE - Amplification / Detection	p.27		50 samples
● 67-050	HYBRIDOWELL™ HERPES Identification (for 67-090)	p.23		96 tests
● 67-065	ADENOVIRUS CONSENSUS - Complete kit	p.26		50 samples
● 67-065BC	ADENOVIRUS CONSENSUS - Amplification / Detection	p.26		50 samples
● 67-080BC	ENTEROVIRUS CONSENSUS - Amplification / Detection	p.24		50 samples
● 67-090	HERPES CONSENSUS GENERIC - Complete kit	p.22		50 samples
● 67-090BC	HERPES CONSENSUS GENERIC - Amplification / Detection	p.22		50 samples
● 67-130	JC / BK CONSENSUS - Complete kit	p.25		30 samples
● 67-130BC	JC / BK CONSENSUS - Amplification / Detection	p.25		30 samples
68-006	Quanti FluA r-gene™	p.15		30 reactions
68-008	Quanti HHV8 QS r-gene™	p.17		30 reactions
68-009	Bocavirus r-gene™ Positive control	p.17		10 reactions

Product List by Catalog Number

Catalog Number	Product Name	Quantity	Volume	Storage
68-020	CMV Clear QC Panel	3 vials	3 x 1 mL	Freeze dried
● 69-002	EBV R-gene™ - Quantification Complete kit	p.7	90 tests	
● 69-002B	EBV R-gene™ - Quantification kit	p.7	90 tests	
● 69-003	CMV R-gene™ - Quantification Complete kit	p.5	90 tests	
● 69-003B	CMV R-gene™ - Quantification kit	p.5	90 tests	
● 69-004	HSV1 HSV2 VZV R-gene™ - Quantification Complete kit	p.8	180 tests	
● 69-004B	HSV1 HSV2 VZV R-gene™ - Quantification kit	p.8	180 tests	
● 69-005	ENTEROVIRUS R-gene™ - Real-Time PCR Complete kit	p.12	90 tests	
● 69-005B	ENTEROVIRUS R-gene™ - Real-Time PCR kit	p.12	90 tests	
● 69-010	ADENOVIRUS R-gene™ - Quantification Complete kit	p.6	90 tests	
● 69-010B	ADENOVIRUS R-gene™ - Quantification kit	p.6	90 tests	
● 69-011	BORDETELLA R-gene™ - Real-Time PCR Complete kit	p.13	60 tests	
● 69-011B	BORDETELLA R-gene™ - Real-Time PCR kit	p.13	60 tests	
● 69-013	BK Virus R-gene™ - Quantification Complete kit	p.10	90 tests	
● 69-013B	BK Virus R-gene™ - Quantification kit	p.10	90 tests	
● 69-100	CMV HHV6,7,8 R-gene™ - Quantification Complete kit	p.4	140 tests	
● 69-100B	CMV HHV6,7,8 R-gene™ - Quantification kit	p.4	140 tests	
69-100R6	HHV6 amplification premix		60 tests	
69-100R7	HHV7 amplification premix		20 tests	
69-100R8	HHV8 amplification premix		20 tests	
71-001	Chlamydomphila pneumoniae r-gene™ Primers/Probe		60 reactions	2 x 450 µL
71-002	Mycoplasma pneumoniae r-gene™ Primers/Probe		60 reactions	2 x 450 µL
71-003	Legionella species r-gene™ Primers/Probes		60 reactions	2 x 450 µL
71-004	JC Virus r-gene™ Primers/Probe	p.11	60 reactions	2 x 450 µL
71-005	BK Virus r-gene™ Primers/Probe	p.11	60 reactions	2 x 450 µL
71-006	FLU A/B r-gene™ Primers/Probes	p.15	60 reactions	2 x 450 µL
71-007	RSV A/B r-gene™ Primers/Probes	p.14	60 reactions	2 x 450 µL
71-008	hMPV A/B r-gene™ Primers/Probes	p.14	60 reactions	2 x 450 µL
71-009	Bocavirus r-gene™ Primers/Probe	p.14	60 reactions	2 x 450 µL
71-010	Adenovirus r-gene™ Primers/Probes	p.11	60 reactions	2 x 450 µL
● 71-012	<i>Bordetella parapertussis</i> r-gene™	p.14	60 reactions	2 x 450 µL
● 71-015	HSV1 r-gene™	p.9	60 reactions	2 x 450 µL
● 71-016	HSV2 r-gene™	p.9	60 reactions	2 x 450 µL
● 71-017	VZV r-gene™	p.9	60 reactions	2 x 450 µL
● 71-020	Parechovirus r-gene™	p.11	60 tests	
● 71-040	Influenza A/B r-gene™	p.19	60 tests	
● 71-041	RSV/hMPV r-gene™	p.19	60 tests	
● 71-042	Rhino&EV/Cc r-gene™	p.19	60 tests	
● 71-043	AdV/hBoV r-gene™	p.19	60 tests	
● 71-044	Chlamydomphila/Mycoplasma p. r-gene™	p.19	60 tests	
● 71-045	HCoV/PIV r-gene™	p.19	60 tests	
71-100	DICO Ampli r-gene™	p.16	100 reactions	2 x 750 µL
71-101	DICO Extra r-gene™	p.16	100 reactions	-
71-103	COLOUR COMPENSATION r-gene™	p.16	2 calibration runs	3 x 60 µL
71-105	RICO Extra r-gene™	p.16	100 reactions	-

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● 71-106	CELL Control r-gene™	p.15	100 reactions	2 x 750 µL
● 71-300	Influenza A(M) Group & H1N1 2009 r-gene™	p.15	60 tests	2 x 450 µL

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A

●	ADENOVIRUS CONSENSUS - Complete kit	p.26		50 samples	67-065
●	ADENOVIRUS CONSENSUS - Amplification / Detection	p.26		50 samples	67-065BC
●	ADENOVIRUS R-gene™ - Quantification Complete kit	p.6		90 tests	69-010
●	ADENOVIRUS R-gene™ - Quantification kit	p.6		90 tests	69-010B
●	AdV/hBoV r-gene™	p.19		60 tests	71-043
	Adenovirus r-gene™ Primers/Probes	p.11	2 x 450 µL	60 reactions	71-010
●	anti ADENOVIRUS GROUP FITC	p.32	dropper bottle	80 tests	17-020
●	anti ADENOVIRUS GROUP FITC concentrated	p.33	0,5mL (40X)	650Tests	12-020
●	anti ADENOVIRUS GROUP purified	p.32	0.5 mL (40x)	650 tests	11-020
●	anti ADENO., INFLU., PARA. FITC	p.33	dropper bottle	80 tests	17-091
●	anti ADENO., INFLU., PARA. purified	p.33	0.5 mL (40x)	650 tests	11-091
●	anti ADENO., INFLU., PARA., RSV FITC	p.33	dropper bottle	80 tests	17-092
	Antibodies dilution buffer for CINApool		4,5mL		11-002G

B

●	BK Virus R-gene™ - Quantification Complete kit	p.10		90 tests	69-013
●	BK R-gene™ - Quantification kit	p.10		90 tests	69-013B
	BK Virus r-gene™ Primers / Probe	p.11	2 x 450 µL	60 reactions	71-005
	Bocavirus r-gene™ Primers / Probe	p.14	2 x 450 µL	60 reactions	71-009
	Bocavirus r-gene™ Positive control		100 µL	10 reactions	68-009
●	<i>Bordetella parapertussis</i> r-gene™	p.14	2 x 450 µL	60 reactions	71-012
●	BORDETELLA R-gene™ - Real-Time PCR Complete kit	p.13		60 tests	69-011
●	BORDETELLA R-gene™ - Real-Time PCR kit	p.13		60 tests	69-011B

C

●	CELL Control r-gene™	p.15	2 x 750 µL	100 reactions	71-106	
●	Chlamydomydia/Mycoplasma r-gene™	p.19		60 tests	71-044	
	Chlamydomydia pneumoniae r-gene™ Primers/Probes			60 reactions	71-001	
●	CHLAMYLEGE - Complete kit	p.27		50 samples	67-025	
●	CHLAMYLEGE - Amplification / Detection	p.27		50 samples	67-025BC	
●	CINAKit - Complete kit HCMV ppUL83 (pp65) I.F. Antigenemia	p.30		100 tests	19-002	
●	CINAKit - Complete kit HCMV ppUL83 (pp65) I.F. Antigenemia	p.30		200 tests	19-002B	
	CINAKit - Complete kit HCMV ppUL83 (pp65) I.F. Antigenemia			200 tests	19-002BUS	
	anti CMV Clear QC Panel		Freeze dried	3 x 1 mL	3 vials	68-020
●	anti CMV I.E.A purified	p.35	0.5 mL (50x)	Concentrated	11-003	
	anti CMV I.E.A+E.A purified	p.35	0.5 mL (50x)	Concentrated	11-004	
●	anti CMV ppUL83 (pp65) CINApool & Secondary F(ab') ₂ FITC	p.35	0.5 mL (20x)	330 tests	14-002	
●	anti CMV ppUL83 (pp65) CINApool purified	p.35	0.5 mL (20x)	330 tests	11-002	
●	CMV HHV6,7,8 R-gene™ - Quantification Complete kit	p.4		140 tests	69-100	
●	CMV HHV6,7,8 R-gene™ - Quantification kit	p.4		140 tests	69-100B	
●	CMV R-gene™ - Quantification Complete kit	p.5		90 tests	69-003	
●	CMV R-gene™ - Quantification kit	p.5		90 tests	69-003B	
	COLOUR Compensation r-gene™	p.16	3 x 60 µL	2 calibration runs	71-103	
	Control slide ADENOVIRUS	CDC V5-002	5 slides	2+ / 2-	40-061	
	Control slide CMV IEA-EA		5 slides		40-022	
	Control slide HERPES SIMPLEX TYPE 1 & 2	VR733/VR734	5 slides	2+ / 2-	40-017	

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Control slide INFLUENZA A	CDC V7-002	5 slides	2+ / 2-	40-071
Control slide INFLUENZA B	CDC V4-004	5 slides	2+ / 2-	40-081
Control slide PANEL ADV,IA,IB,VRS,P1,P2,P3	Idem	5 slides	7+ / 7-	40-161
Control slide PARAINFLUENZA 1	CDC V6-004	5 slides	2+ / 2-	40-091
Control slide PARAINFLUENZA 2	CDC V7-003	5 slides	2+ / 2-	40-101-1
Control slide PARAINFLUENZA 3	CDC V5-003	5 slides	2+ / 2-	40-111
Control slide RSV	Specimen	5 slides	2+ / 2-	40-121
Control slide VARICELLA - ZOSTER	Specimen	5 slides	2+ / 2-	40-041

D

● Dextran 6% for CINAKit 19-002	p.31	60mL	1x	19-002K
DICO Ampli r-gene™	p.16	2 x 750 µL	100 reactions	71-100
DICO Extra r-gene™	p.16	2 x 750 µL	100 reactions	71-101

E

● EBV R-gene™ - Quantification Complete kit	p.7		90 tests	69-002
● EBV R-gene™ - Quantification kit	p.7		90 tests	69-002B
● ENTEROVIRUS CONSENSUS - Amplification / Detection	p.24		50 samples	67-080BC
● ENTEROVIRUS R-gene™ - Real-Time PCR Complete kit	p.12		90 tests	69-005
● ENTEROVIRUS R-gene™ - Real-Time PCR kit	p.12		90 tests	69-005B
● Evans blue 1%	Liquid	2 mL	-	33-030
● Evans blue 1% for CINApool		250µL		11-002I

F

● F(ab') ₂ anti MOUSE IgG+IgM "human ads." FITC	Polyclonal	0.5 mL	Liquid	51-010
● F(ab') ₂ anti MOUSE IgG+IgM "human ads." FITC	Polyclonal	1 mL	Liquid	51-011
● Fixative solution for CINAKit 19-002	p.31	110mL	5x	19-002C
● FLU A/B r-gene™ Primers / Probes	p.15	2 x 450 µL	60 reactions	71-006

H

anti HAV purified	-	250 µg / 0.5 mL	Concentrated	11-033
anti HAV purified	-	250 µg / 0.5 mL	Concentrated	11-034
● HCoV/PIV r-gene™	p.19		60 tests	71-045
● HERPES CONSENSUS GENERIC - Complete kit	p.22		50 samples	67-090
● HERPES CONSENSUS GENERIC - Amplification / Detection	p.22		50 samples	67-090BC
● HHV6 amplification premix			60 tests	69-100R6
● HHV7 amplification premix			20 tests	69-100R7
● HHV8 amplification premix			20 tests	69-100R8
hMPV A/B r-gene™ Primers / Probes	p.14	2 x 450 µL	60 reactions	71-008
anti HSV-1 purified	p.36	7.5 mL	250 tests	11-088
● anti HSV-1 + 2 FITC	p.36	7.5 mL	250 tests	12-090
● anti HSV-1 + 2 FITC	p.36	2.5 mL	80 tests	17-090
● anti HSV-1 + 2 purified	p.36	7.5 mL	250 tests	11-090
● HSV1 HSV2 VZV R-gene™ - Quantification Complete kit	p.8		180 tests	69-004
● HSV1 HSV2 VZV R-gene™ - Quantification kit	p.8		180 tests	69-004B
● HSV1 r-gene™	p.9	2 x 450 µL	60 reactions	71-015
anti - HSV-2 purified	p.36	7.5mL	250Tests	11-089
● HSV2 r-gene™	p.9	2 x 450 µL	60 reactions	71-016

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●	HYBRIDOWELL™ HERPES Identification (for 67-090)	p.23		96 tests	67-050
●	HYBRIDOWELL™ Universal - Complete kit	p.21		96 tests	67-012
I					
	IF slides - Teflon coated - 6 mm wells	10 wells	100 slides	-	31-010
●	Influenza A(M) Group & H1N1 2009 r-gene™	p.15	2 x 450 µL	60 tests	71-300
●	anti INFLUENZA A GROUP FITC	p.33	0.5 mL (40x)	650 tests	12-030
●	anti INFLUENZA A GROUP FITC	p.32	dropper bottle	80 tests	17-030
●	anti INFLUENZA A GROUP purified	p.33	0.5 mL (40x)	650 tests	11-030
●	Influenza A/B r-gene™	p.19		60 tests	71-040
●	anti INFLUENZA B GROUP FITC	p.33	0.5 mL (40x)	650 tests	12-035
●	anti INFLUENZA B GROUP FITC	p.32	dropper bottle	80 tests	17-035
●	anti INFLUENZA B GROUP purified	p.33	0.5 mL (40x)	650 tests	11-035
J					
●	JC / BK CONSENSUS - Complete kit	p.25		30 samples	67-130
●	JC / BK CONSENSUS - Amplification / Detection	p.25		30 samples	67-130BC
	JC Virus r-gene™ Primers / Probe	p.11	2 x 450 µL	60 reactions	71-004
K					
	"Kova glasstic slides" for antigenemia	10 wells	100 slides	-	31-030
L					
	Legionella species r-gene™ Primers/Probes		60 reactions	2x450µL	71-003
M					
●	anti MEASLES purified	-	0.5 mL (40x)	650 tests	11-045
●	Mounting medium for immunofluorescence	Liquid	dropper bottle	15 mL	33-041
●	Mounting medium for CINAKit 19-002	p.31		4mL	19-002J
●	anti MOUSE IgG+IgM "human ads." FITC	Polyclonal	1 mL	Liquid	50-011
●	anti MOUSE IgG+IgM "human ads." FITC	Polyclonal	2 mL	Liquid	50-012
●	anti MOUSE IgG+IgM "human ads." FITC	Polyclonal	0.5 mL	Liquid	50-010
	anti MOUSE IgG+IgM "human ads." PEROXIDASE	Polyclonal	1 mL	Liquid	50-021
	anti MOUSE IgG+IgM "human ads." PEROXIDASE	Polyclonal	2 mL	Liquid	50-022
	anti MUMPS purified	-	0.5 mL (40x)	650 tests	11-046
	Mycoplasma pneumoniae r-gene™ Primers/Probe			60 reactions	71-002
P					
●	anti PARAINFLUENZA GROUP FITC	p.33	1 mL (20x)	650 tests	12-040
●	anti PARAINFLUENZA GROUP FITC	p.33	dropper bottle	80 tests	17-040
●	anti PARAINFLUENZA GROUP purified	p.33	0.5 mL (40x)	650 tests	11-040
●	anti PARAINFLUENZA 1 FITC	p.33	dropper bottle	80 tests	17-036
●	anti PARAINFLUENZA 1 purified	p.33	0.5 mL (40x)	650 tests	11-036
●	anti PARAINFLUENZA 2 FITC	p.33	dropper bottle	80 tests	17-037
●	anti PARAINFLUENZA 2 purified	p.33	0.5 mL (40x)	650 tests	11-037
●	anti PARAINFLUENZA 3 FITC	p.33	0.5 mL (40x)	650 tests	12-038
●	anti PARAINFLUENZA 3 FITC	p.32	dropper bottle	80 tests	17-038
●	anti PARAINFLUENZA 3 purified	p.33	0.5 mL (40x)	650 tests	11-038
●	Parechovirus r-gene™	p.11		60 tests	71-020
●	PBS pH: 7.2 without Ca2+ and Mg2+	Powder	2 x 1 liter	-	33-011
●	Permeabilization solution for ICNAKit 19-002	p.31	110mL	5x	19-002E

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Q

Quanti FluA r-gene™	p.15		30 reactions	68-006
Quanti HHV8 QS r-gene™	p.17		30 reactions	68-008

R

Rapid Lysis solution for CINAKit 19-002	p.31	45mL	20x	19-002B
● Rhino&EV/Cc r-gene™	p.19		60 tests	71-042
RICO Extra r-gene™	p.16		100 reactions	71-105
RSV A/B r-gene™ Primers / Probes	p.14	2 x 450 µL	60 reactions	71-007
● anti RSV GROUP FITC	p.33	0.5 mL (40x)	650 tests	12-042
● anti RSV GROUP FITC	p.32	dropper bottle	80 tests	17-042
● anti RSV GROUP purified	p.33	0.5 mL (40x)	650 tests	11-042
● RSV/hMPV r-gene™	p.19		60 tests	71-041

U

UNG r-gene™	-		500 tests	65-001
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V

anti VARICELLA ZOSTER VIRUS purified	p.37	0.5 mL (40x)	650 tests	11-017
anti VARICELLA ZOSTER VIRUS FITC	p.37	dropper bottle	80 tests	17-017
anti VARICELLA ZOSTER VIRUS purified	p.37	0.5 mL (40x)	650 tests	11-018
● VZV r-gene™	p.9	2 x 450 µL	60 reactions	71-017

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