



ADENOVIRUS R-GENE®

REAL TIME PCR ASSAYS - ARGENE® TRANSPLANT RANGE

The power of true experience



PIONEERING DIAGNOSTICS



ADENOVIRUS R-GENE®

KEY FEATURES

- Ready-to-use reagents
- Complete qualitative and quantitative kit
- Validated on most relevant sample types
- Validated with the major extraction and amplification platforms
- Designed for low to high throughput analysis
- Same procedure for all the ARGENE® Transplant kits
- Detect all AdV species (A to G)

CLINICAL CONTEXT^{1,2}

Adenoviruses (AdV) are DNA viruses, member of the Adenoviridae family. They are divided into seven species (from A through G), and different serotypes are described within species. AdV infections have a worldwide distribution, occur throughout the year and are frequent during childhood. After primary infection, AdV may persist in host body.

In transplant patients, AdV infections (primo-infections or reactivations) tend to be more severe and can lead to fatal outcome. AdV diseases can either be localized to a single organ (pneumonia, hepatitis, hemorrhagic cystitis, nephritis, colitis, ...) or be disseminated. The risk factors for AdV diseases include age and type of transplantation: the most at risk population is paediatric haematopoietic stem cell transplant patients.



TECHNICAL INFORMATION

ORDERING INFORMATION	ADENOVIRUS R-GENE® - Ref. 69-010B
Type of kit	Real-time detection and quantification kit
Gene target	Hexon gene coding for hexagonal capsomeres
Validated specimens	Whole blood, Plasma, CSF, Ocular samples: Detection and Quantification Biopsies, Stool, BAL, Nasal Aspirate, Nasal Swab: Detection
Validated extraction platforms	EMAG®, easyMAG®, MagNA Pure Compact, MagNA Pure LC, MagNA Pure 96, QIAasymphony SP, QIAamp DNA Blood Mini Kit, QIAamp® DNA Stool Mini Kit, DNA Extraction kit (ref. 67-000)
Validated amplification platforms	LightCycler 2.0, LightCycler 480 (System II), ABI 7500, ABI 7500 Fast, ABI 7500 Fast Dx, ViiA 7, StepOne, Rotor-Gene Q, CFX96
Limit of Detection (LoD 95%)	Nasal secretion: 2.8 log ₁₀ copies/mL Whole blood: 2.7 log ₁₀ copies/mL
Quantification range	2.7 to 7.0 log ₁₀ copies/mL
Controls included	Extraction / Inhibition Control, Negative Control, Positive Control (QS3), 4 Quantification Standards, Sensitivity Control
Number of tests	90 tests
Storage conditions	-15°C / -31°C
Status	For <i>in vitro</i> diagnostic use, CE-IVD marking

OTHER ARGENE® TRANSPLANT KITS

- EBV R-GENE® (69-002B) • CMV R-GENE® (69-003B) • HSV1 HSV2 VZV R-GENE® (69-004B) • BK Virus R-GENE® (69-013B)
- Parvovirus B19 R-GENE® (69-019B) • CMV HHV6,7,8 R-GENE® (69-100B)

REFERENCES

1. Echavarría *et al.* Adenoviruses in Immunocompromised Hosts. *Clinical Microbiology Reviews* 2008; 21: 704–715
2. Feghoul *et al.* Adenovirus infection and disease in paediatric haematopoietic stem cell transplant patients: clues for antiviral pre-emptive treatment. *Clin Microbiol Infect* 2015; 21: 701–709