

Immuno-  
compromised



## Real-Time Efficiency in Monitoring Immunocompromised Patients

### RealStar<sup>®</sup> Immunocompromised Testing Panel

**Persons with congenital or acquired immunodeficiency cannot respond properly to an infection due to an impaired or weakened immune system.** There are various causes that can affect the human immune system such as the infection with certain viruses, like the human immunodeficiency virus (HIV), antitumor treatments in cancer patients, immunosuppressing drugs given to transplant recipients but also genetic disorders. Immunocompromised patient management highly leans on the reliable monitoring of the viral load of so-called indicator viruses, like different herpes- and polyomaviruses.

**The RealStar<sup>®</sup> Immunocompromised PCR Panel facilitates the monitoring of viruses and other pathogens** with possible clinical relevance for patients with immunodeficiency and can be used to control the status of the immune system.

RealStar<sup>®</sup> kits are CE-IVD marked tests, based on real-time PCR technology, utilizing polymerase chain reaction (PCR) for the amplification of specified target sequences, as well as target-specific probes linked to fluorescence dyes used for the detection and quantification of specific amplification products.

**The key advantages:** The harmonized design of the RealStar<sup>®</sup> kits allows the simultaneous detection and quantification of multiple viruses and pathogens in a single run. Due to the composition of the RealStar<sup>®</sup> Immunocompromised PCR Panel a flexible combination of the assays depending on the specific needs of the individual patient is possible.

Thanks to their sensitive, specific and reliable performance and their ease of use, the real-time PCR assays of the RealStar<sup>®</sup> Immunocompromised PCR Panel are widely used in a large variety of laboratories, worldwide.

Product Name	Detection of	Order No.
<b>RealStar® Immunocompromised Testing Panel</b>		
RealStar® Adenovirus PCR Kit 1.0	Human Adenovirus (quantitative)	301013
RealStar® CMV PCR Kit 1.0	Cytomegalovirus (quantitative)	021013
RealStar® EBV PCR Kit 1.0	Epstein-Barr Virus (quantitative)	131013
RealStar® EBV PCR Kit 2.0	Epstein-Barr Virus (quantitative)	132013
RealStar® HHV-6 PCR Kit 1.0	Human Herpesvirus 6A and 6B (quantitative)	311013
RealStar® HSV PCR Kit 1.0	Herpes Simplex Virus 1 and 2 (quantitative)	061013
RealStar® VZV PCR Kit 1.0	Varicella Zoster Virus (quantitative)	071013
RealStar® <i>alpha</i> Herpesvirus PCR Kit 1.0	HSV-1, HSV-2 and VZV	081013
RealStar® BKV PCR Kit 1.0	BK Virus (quantitative)	031013
RealStar® JCV PCR Kit 1.0	JC Virus (quantitative)	041013
RealStar® <i>Pneumocystis jirovecii</i> PCR Kit 1.0	<i>Pneumocystis jirovecii</i> (quantitative)	551013

The RealStar® PCR assays are CE-IVD marked diagnostic kits according to the European *in vitro* diagnostic directive 98/79/EC. Each RealStar® real-time PCR kit contains components sufficient for 96 rxns.

The RealStar® Immunocompromised Testing Panel includes assays for the detection of all relevant herpes- and polyomaviruses like CMV, EBV, HHV-6 (A and B), BKV, JCV and others, but also of adenovirus and *Pneumocystis jirovecii*. The panel also comprises the RealStar® *alpha* Herpesvirus PCR Kit 1.0 for the detection and differentiation of herpes simplex virus 1 and 2 and varicella zoster virus in one single reaction. All assays are developed and validated to be used on a wide range of real-time PCR cyclers.



**Supported Cyclers:** ABI Prism® 7500 (Fast), m2000rt, LightCycler® 480, Rotor-Gene®, Mx 3005 P™ QPCR, VERSANT® kPCR, CFX96™ (DW)

In addition to the CE-IVD marked PCR kits of the RealStar® Immunocompromised Testing Panel, altona® offers assays that can be combined to panels of respiratory and enteric agents as well as blood borne viruses. A particular focus of altona Diagnostics is in the field of emerging and tropical infectious diseases. Depending on the respective kit, analytical methods can include: detection, differentiation and quantification methods.

[www.altona-diagnostics.com](http://www.altona-diagnostics.com)

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