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AltoStar®

altona DIAGNOSTICS

Immuno-compromised

Automated Real-Time Efficiency in Monitoring Immunocompromised Patients

Automated testing of different specimen types with the AltoStar® Molecular Diagnostic Workflow

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 AltoStar® Immunocompromised PCR Panel facilitates the monitoring of viruses with possible clinical relevance for patients with immunodeficiency and can be used to control the status of the immune system.

AltoStar® kits are CE-IVD marked tests and aimed to be used as part of the automated AltoStar® Molecular Diagnostic Workflow. The assays are 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.

Key advantages: The AltoStar® workflow enables the parallel processing of various sample types using one single purification chemistry, as well as the simultaneous detection and quantification of multiple relevant viruses and pathogens in one single run. A complete panel of relevant viral infections can be diagnosed and individual adaptation of diagnostics by flexible assay combinatorics is possible.

AltoStar® Real-Time PCR Kits

Product Name	Detection and Quantification of	Order No.
Immunocompromised Testing		
AltoStar® Adenovirus PCR Kit 1.5	Human Adenovirus	AS0301513
AltoStar® CMV PCR Kit 1.5	Cytomegalovirus	AS0021513
AltoStar® EBV PCR Kit 1.5	Epstein-Barr Virus	AS0131513
AltoStar® HHV-6 PCR Kit 1.5	Human Herpesvirus 6A and 6B	AS0311513
AltoStar® HSV PCR Kit 1.5	Herpes Simplex Virus 1 and 2	AS0061513
AltoStar® VZV PCR Kit 1.5	Varicella Zoster Virus	AS0071513
AltoStar® BKV PCR Kit 1.5	BK Virus	AS0031513
AltoStar® JCV PCR Kit 1.5	JC Virus	AS0041513

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

Regardless of the sample type – cover your entire real-time PCR infection disease testing workflow with high flexibility, optimized costs and full process reliability

- Broad range of CE-IVD-marked ready to use kits
- Various sample types with one purification chemistry (DNA/RNA)
- One universal Internal Control (purification, PCR)
- Software-supported workflow and reliable sample identification
- Up to eight assays on a 96-well plate with no required minimal batch size
- Low and high sample volumes possible in one run
- No refilling and no mixing of solutions
- Reduced hands-on-time and maximized walk-away time
- High level customized support
- First class technical service by our application specialists

Performance Data for AltoStar® PCR Kits 1.5

Pathogen	Matrix	Limit of Detection	Linear Range
Adenovirus	Plasma	141 cp/ml (95% CI 92 to 271 cp/ml)	2.50E+02 to 1.00E+08 cp/ml
	Whole Blood	382 cp/ml (95% CI 262 to 652 cp/ml)	5.00E+02 to 1.00E+08 cp/ml
CMV	Plasma	215 IU/ml (95% CI 163 to 330 IU/ml)	2.50E+02 to 1.00E+08 IU/ml
	Whole Blood	305 IU/ml (95% CI 218 to 495 IU/ml)	5.00E+02 to 1.00E+08 IU/ml
EBV	Plasma	195 IU/ml (95% CI 143 to 303 IU/ml)	2.00E+02 to 1.00E+08 IU/ml
	Whole Blood	320 IU/ml (95% CI 213 to 563 IU/ml)	1.50E+03 to 1.00E+08 IU/ml
HHV-6	Plasma	6A: 249 IU/ml (95% CI 166 to 459 IU/ml)	2.50E+02 to 3.00E+07 IU/ml
		6B: 134 IU/ml (95% CI 92 to 237 IU/ml)	2.50E+02 to 3.00E+07 IU/ml
	Whole Blood	6A: 1,112 IU/ml (95% CI 705 to 2,149 IU/ml)	2.50E+03 to 1.00E+07 IU/ml
		6B: 653 IU/ml (95% CI 397 to 1,364 IU/ml)	2.50E+03 to 1.00E+07 IU/ml
HSV	Plasma	HSV-1: 34 cp/ml (95% CI 22 to 65 cp/ml)	2.00E+02 to 1.00E+08 cp/ml
		HSV-2: 73 cp/ml (95% CI 47 to 135 cp/ml)	2.00E+02 to 5.00E+07 cp/ml
VZV	Plasma	73 cp/ml (95% CI 49 to 132 cp/ml)	1.00E+02 to 1.00E+08 cp/ml
BKV	Plasma	66 IU/ml (95% CI 45 to 120 IU/ml)	2.00E+02 to 1.00E+08 IU/ml
JCV	Plasma	3.6 IU/ml (95% CI 2.5 to 6.6 IU/ml)	1.00E+02 to 1.00E+08 IU/ml

WORKFLOW