

Quantitative Real-Time PCR

Monitoring of Viral Load

- > Ideal for small and medium throughput
- > Fully CE-IVD marked products
- > Open platform with manual extraction

REAL-TIME PCR



HIV-1

HBV

HCV

CMV

Human

Diagnostics Worldwide

Alternative, Integrative Solution for Viral Load Testing

For Small to Medium Size Laboratories

Adaptable to

- > Individual laboratory environment
- > Throughput
- > Parameter menu
- > Custom-fit investment



Viral Nucleic Acid Isolation Kit Viral DNA Isolation Kit Viral RNA Isolation Kit

- > Validated for EDTA-plasma and serum samples
- > Flexible spin column based isolation
- > Validated for HUMAN Real-Time PCR assays

Real-Time PCR – A True Revolution in Diagnostics

- > Excellent sensitivity (< 1 copy /ml)
- > High specificity
- > Faster turnaround times
- > High reproducibility

Viral Load Testing – Towards the Goal of Undetectable

- > Prevents virus transmission
- > Exceeds the WHO's recommendation for therapy management
- > Monitors success of therapy
- > Identifies and defines treatment failure more easily



1. DNA/RNA Isolation

Fully C
Mar
Prod

3. Dete

2. Real-Time PCR

E-IVD
ked
ucts

ction & Data Analysis



HIV-1 Hepatitis B Hepatitis C Cytomegalovirus

- > Separated Internal Control
- > 2 step Master-Mix preparation
- > Outstanding sensitivity
- > Additionally validated for Stratagene MX3000/3005p, Rotor-Gene 3000/6000, LC 2.0*



HumaCycler Real-Time PCR Instrument

- > 4 channels
- > Patented bottom detection technology – no tube validation necessary
- > Absolute and relative quantification, High Resolution Melting Curve, Single Nucleotide Polymorphism analysis
- > Cooling/heating rate 4°C/sec

Test Performance

Feature	HIV-1	HCV	HBV	CMV
Analytical Sensitivity	63 IU/ml*	9.5 IU/ml*	11.8 IU/ml*	103 IU/ml*
Linear Range	85 IU/ml – 1x10 ⁹ IU/ml	9.5 IU/ml – 1x10 ⁹ IU/ml	21 IU/ml – 1x10 ⁹ IU/ml	85 IU/ml-1x10 ⁹ IU/ml
Genotype Detection	9 HIV-1 subtypes	7 HCV genotypes	8 HBV genotypes	All geno- and subtypes

Applicated Isolation Kits for Respective HUMAN PCR Assays

Validated Isolation Kit	HIV-1	HCV	HBV	CMV
Viral Nucleic Acid Isolation Kit	×	×	×	×
Viral DNA Isolation Kit			×	×
Viral RNA Isolation Kit		×		

Ordering Information

		REF
Viral Nucleic Acid Isolation Kit	100 tests	87300
Viral DNA Isolation Kit	100 tests	87310
Viral RNA Isolation Kit	100 tests	87320
HIV-1 Real-Time PCR Kit	100 tests	87100
HCV Real-Time PCR Kit	100 tests	87110
HBV Real-Time PCR Kit	100 tests	87120
CMV Real-Time PCR Kit	100 tests	87030
HumaCycler		86100
Real-Time PCR Instrument		
HumaCycler Dye Calibration Kit		86150

