



RT-PCR RESEARCH SOLUTIONS

*Analyzing Complex
Rare Diseases*

Blood Borne Infectious Diseases

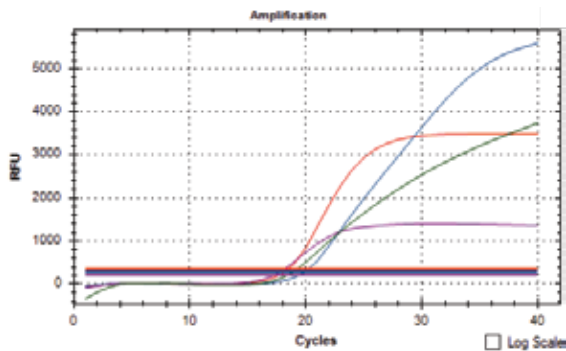
Occupational exposure to blood and other bodily fluids is a risk in various professions. Healthcare professionals, emergency responders, public safety personnel, and others may encounter blood through incidents like needlestick injuries, mucous membrane contact, and skin exposure.

The key bloodborne pathogens of concern are human immunodeficiency virus (HIV), hepatitis B virus (HBV), and hepatitis C virus (HCV). To minimize the risk of exposure to blood and bodily fluids, both employees and employers should make use of available equipment that eliminates the need for needles and sharps and adopt safe work practices.

3Hdtect-Q

- Multiplex Real Time PCR Kit.
- Simultaneous detection of Simultaneous detection of Hepatitis B, Hepatitis C & HIV viruses.

Targets covered: • HCV Specific: Poly Gene
• HBV Specific: CR Gene • HIV Specific: pol gag Genes

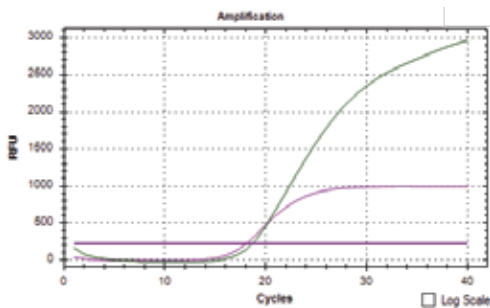


3Hdtect Real Time PCR specific amplification plot of positive sample for HCV (FAM channel), HIV (HEX channel) and HBV (Texas Red channel) along with internal control (Cy5 channel).

HIV-Q Real Time PCR Kit

- HIV (human immunodeficiency virus) is a virus that attacks the body's immune system. If HIV is not treated, it can lead to AIDS (acquired immunodeficiency syndrome). There is currently no effective cure. Once people get HIV, they have it for life.
- HIV infection causes acute retroviral syndrome in human or host cells, since virus uses the host cell's machinery to convert the viral RNA into DNA and replicate itself.
- Allows Qualitative/ Quantitative detection of HIV Pol, gag genes using Taqman chemistry on Real Time PCR based method.

Targets covered: HIV Pol, gag genes.

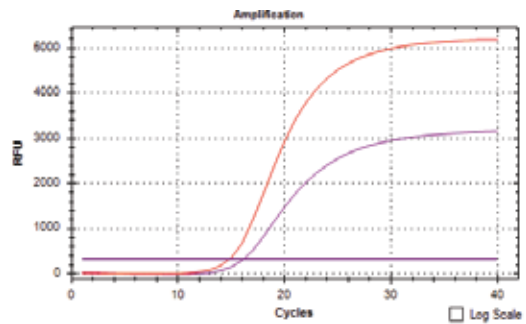


HIV-Q Real Time PCR specific amplification plot of positive sample for HIV (HEX channel) along with internal control (Cy5 channel).

HBV-Q Real Time PCR Kit

- Hepatitis B is a vaccine-preventable liver infection caused by the hepatitis B virus (HBV). Hepatitis B is spread when blood, semen, or other body fluids from a person infected with the virus enters the body of someone who is not infected.
- This can happen through sexual contact; sharing needles, syringes, or other drug-injection equipment; or during pregnancy or delivery.
- Hepatitis B viral infection attacks liver and have potential for acute and chronic life-threatening liver infections, failure or death.
- Qualitative/ Quantitative detection kit for identification of the specific CR gene target DNA using fluorescent labeled primers and probes.

Targets covered: • CR Gene



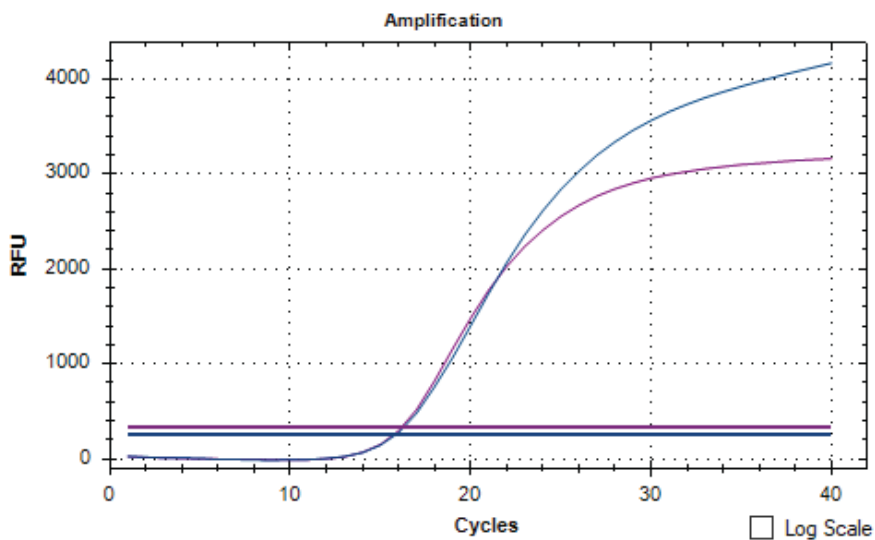
HBV-Q Real Time PCR specific amplification plot of positive sample for HBV (Texas Red) along with internal control (Cy5 channel).

HCV-Q Real Time PCR Kit

- Hepatitis C is a liver infection caused by the hepatitis C virus (HCV). Hepatitis C is spread through contact with blood from an infected person.
- Today, most people become infected with the hepatitis C virus by sharing needles or other equipment used to prepare and inject drugs.
- Hepatitis C viral infection causes both acute and chronic hepatitis, ranging in severity from a mild illness to a serious, lifelong illness including liver cirrhosis and cancer.
- Qualitative/ Quantitative detection of target specific HCV Poly gene in clinical samples using Real Time PCR.



Target covered: HCV Poly gene



Ordering Information

Commercial Name	Cat No.	Pack Size	Compatible Instruments
3H-Q Real Time PCR Kit*	G2MBR4-0666	50 T	Instruments with FAM, ROX/Texas Red, Cy5, HEX/VIC Channels including Genes2Me's RapiCycler 96, ABI Prism®7500 & Quantstudio, BioRad CFX96, Roche Lightcycler, Qiagen Rotor-Gene.
HIV-Q Real Time PCR Kit*	G2MBR4-0077	50 T	
HBV-Q Real Time PCR Kit*	G2MBR4-0006	50 T	
HCV-Q Real Time PCR Kit*	G2MBR4-0076	50 T	

*RUO only