



RT-PCR RESEARCH SOLUTIONS

*Analyzing Complex
Rare Diseases*

A detailed 3D rendering of a spherical virus particle, colored in shades of red and pink, with numerous small black and white protrusions on its surface. It is attached to a green, fibrous structure. Other similar particles are visible in the background against a teal and light green gradient.

Reproductive Health

Genes2Me RT-PCR Kits offer efficient qualitative clinical diagnosis of patient specimens associated with inflammatory diseases, bacterial infection in reproductive organs, infertility and sexually transmitted infections (STIs).



Human Papilloma Virus (HPV) Detection

- DNA viral infection caused by Human Papilloma Virus (HPV) infects various human cells including skin & epithelial mucosal cells. Some HPV infections cause no symptoms while others are highly pathogenic.
- Among different types of HPV, some genotypes leads to serious health problems, including genital warts, pre-cancerous lesions, mouth/ throat, cervical, vaginal and penile cancers which may be transmitted either via skin to skin contacts or sexual transmission.
- High Sensitivity & Specificity : $\geq 99\%$.
- Compatible With Commonly Available Instruments with FAM, ROX, Cy5, HEX/VIC Channels including RAPICycler-96, ABI Prism®7500 & Quantstudio, BioRad CFX96, Roche Lightcycler, Qiagen Rotor-Gene, etc.
- Sample Source : Vaginal swab/Cervical swab.

HPV-Q Comprehensive Real Time PCR Kit

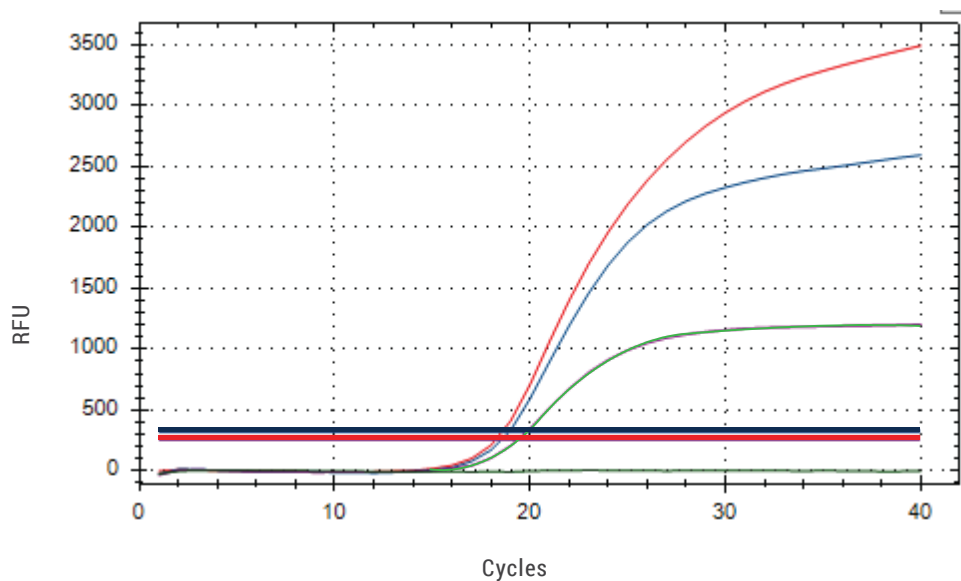
- Comprehensive Real Time PCR in vitro diagnostic test for the detection of 28 HPV genotype including high risk HPV and low risk HPV genotypes in DNA extracted from clinical samples.
- Differential identification of HPV16 and HPV18 genotype.
- Qualitative detection of
 - 12 High Risk genotypes including HPV 31, 33, 35, 39, 45, 51, 52, 56, 58, 59, 66, 68
 - 14 Medium-Low risk genotypes including HPV 6, 11, 83, 54, 26, 81, 61, 44, 40, 43, 42, 82, 53, 73

HPV-Q Real Time PCR Kit

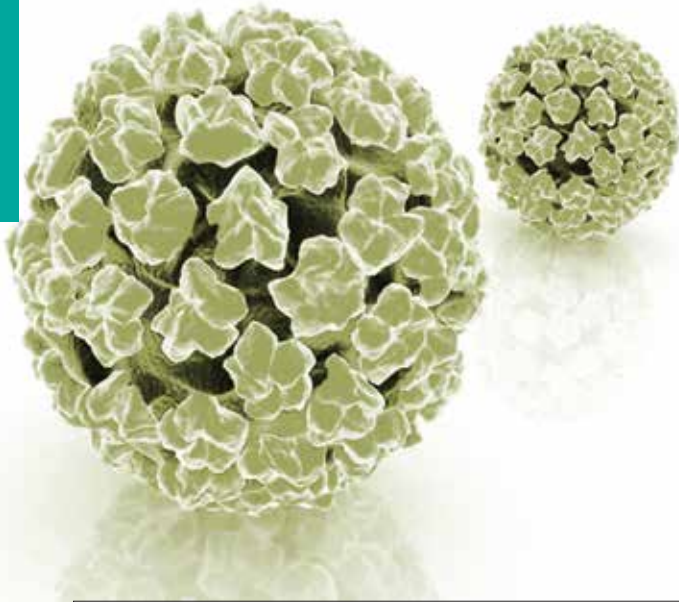
Multiplex diagnostic kit is designed for HPV identification using E6/E7 gene specific targets for 14 High Risk Genotypes using specific primers and florescent labeled probes.

Qualitative Screening of 14 High Risk Genotypes

- Allows differential identification of HPV 16, HPV 18
- 12 other pooled High Risk HPV genotypes including HPV 31, 33, 35, 39, 45, 51, 52, 56, 58, 59, 66, 68
- Separate dyes for following HPV genotypes :
 - HPV 16 (HEX)
 - HPV 18 (ROX)
 - 12 pooled High risk HPV genotypes (FAM)
 - Endogenous control-RNaseP (Cy5)



Amplification patterns obtained with the multiplex assay on plasmid DNA (10^5 copies of plasmid/ μ L). The curves were generated by amplification of target specific positive control DNA of pooled plasmids for HPV16, HPV18 and other 12 HR- HPV genotypes.



Human Papilloma Virus (HPV) Detection

HPV-Q⁺ Comprehensive Real time PCR Kit

A comprehensive solution for the multiplex detection and differentiation of all the HPV genotypes.

28 High, Medium & Low Risk Genotypes : HPV 31, 33, 35, 39, 45, 51, 52, 56, 58, 59, 66, 68, 6, 11, 83, 54, 26, 81, 61, 44, 40, 43, 42, 82, 53, 73

HPV-Q⁺ Real time PCR Kit

This kit is designed for the detection of 12 High Risk HPV genotypes along with 5 genotypes which are vaccine targets of HPV and can thus be used for screening purposes.

12 High Risk Genotypes : HPV 31, 33, 35, 39, 45, 51, 52, 56, 58, 59, 66, 68
5 Vaccine target Genotypes : HPV 16, 18, 6, 11, 44



Comprehensive Panel for Sexually Transmitted Infections

STI-Q Comprehensive Real Time PCR Kit

Comprehensive Multiplex Real Time PCR Kit

Aims to qualitatively detects & differentiates 13 causative organisms for Sexually Transmitted Infections in clinical samples along with parallel detection of Internal control.

Pathogens Covered

- Mycoplasma genitalium
- Mycoplasma hominis
- Neisseria gonorrhoeae
- Trichomonas vaginalis
- Ureaplasma parvum
- Ureaplasma urealyticum
- Herpes Simplex Virus -1
- Herpes Simplex Virus -2
- Treponema pallidum (Syphilis)
- Candida albicans
- Toxoplasma gondii
- Haemophilus ducreyi
- Chlamydia trachomatis

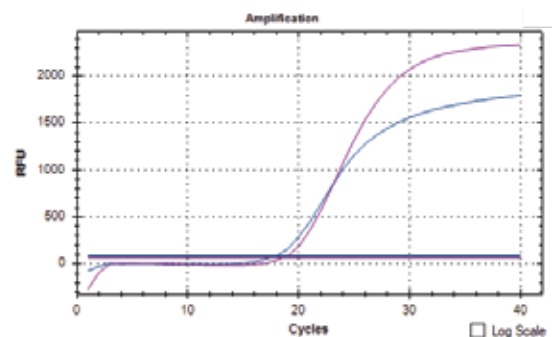
STI7-Q Real Time PCR Kit

Comprehensive Multiplex Real Time PCR Kit

Qualitative detection & differentiation of 7 major sexually transmitted infections (STIs) causative pathogens in clinical samples along with parallel detection of Endogenous Internal control.

Pathogens Covered

- Mycoplasma genitalium
- Mycoplasma hominis
- Neisseria gonorrhoeae
- Trichomonas vaginalis
- Ureaplasma parvum
- Ureaplasma urealyticum
- Herpes Simplex Virus-1 & 2



STI7-Q Real Time PCR specific amplification plot of Herpes Simplex Virus-1 positive sample (FAM channel) along with Internal Control (Cy5 channel).

TGC-III Real Time PCR Kit

- *Trichomonas vaginalis* causes trichomoniasis, which is the most common pathogenic infection that transmits usually via direct, skin-to-skin contact with an infected individual, most often through vaginal intercourse.
- *Gardnerella vaginalis*, another anaerobic bacterium that resides in vaginal flora, if overgrows becomes dominant species and leads to bacterial vaginosis, the most common cause of vaginal discharge, with increased risk of acquired HIV and other STIs.
- *Candida* spp., the most common fungal pathogens, causes Candidal vulvovaginitis that occurs when the species superficially penetrate the mucosal lining of the vagina and cause an inflammatory response leading to thick adherent discharge, vaginal itching and burning.
- The symptoms of these infections are quite similar, thus are difficult to diagnose and also detect risk factors during pregnancy.
- TGC-III RT PCR Kit is designed as a multiplex real-time polymerase chain reaction, containing specific primer pairs and fluorescent probes to detect and differentiate *T. vaginalis*, *G. vaginalis* and *Candida* spp in vaginal swab samples.

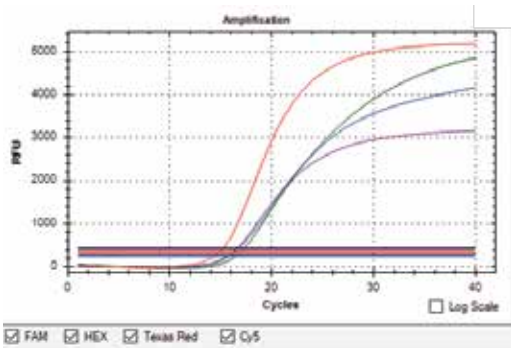


Mutations covered :

Trichomonas vaginalis, *Gardnerella vaginalis*, *Candida* spp.



Sample Source : Vaginal and endocervical swabs



Amplification plot of Spiked positive control of *Trichomonas vaginalis*, *Gardnerella vaginalis*, *Candida* spp.

C.Trachomatis-Q Real Time PCR Kit

Detection of *Chlamydia trachomatis* in clinical samples.



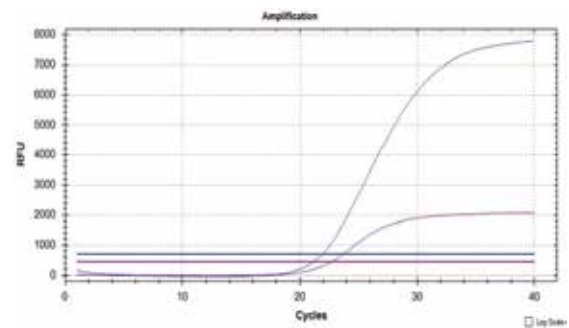
Target covered : *ompA* gene.

U. Urealyticum-Q Real Time PCR Kit

Detection of *Ureaplasma urealyticum* in clinical samples using target sequence within the urease complex.



Target : *ureG* gene



U. Urealyticum Real Time PCR specific amplification plot of *Ureaplasma urealyticum* positive sample (FAM channel) along with Internal Control (Cy5 channel).

M. Hominis (MH)-Q Real Time PCR Kit

- Detection of *Mycoplasma hominis* (MH) bacterial strain specific gene in clinical samples.



Target covered : *tuf* gene.

HSV-Q Real Time PCR Kit

- Multiplex assay for detection of Herpes Simplex Virus 1 (HSV-1) and Herpes Simplex Virus 2 (HSV-2) in clinical samples.



Target covered : UL30 gene.

T. Vaginalis (TV)-Q Real Time PCR Kit

- Detection of *Trichomonas vaginalis* (TV) specific malic enzyme gene in human samples.

N. Gonorrhoeae (NG)-Q Real Time PCR Kit

- Detection of Neisseria Gonorrhoeae specific DNA in clinical samples.

Target covered: polA gene.

Toxo-Q Real Time PCR Kit

- Toxoplasma gondii infection causes toxoplasmosis forming tissue cysts, most commonly in skeletal muscle, brain, and eyes; which may remain throughout the life of the host.
- Diagnosis of congenital infections can be achieved by detecting B1 gene of T. gondii in amniotic fluid using real-time PCR.

Target covered: B1 gene.

Syphilis-Q Real Time PCR Kit

- Detection of Treponema pallidum specific gene with Taqman Chemistry on Real Time PCR based methodology.

Target covered: polA gene.

HHV-Q Real Time PCR Kit

Identification and differentiation of Human Herpesvirus variants HHV6/7/8 in clinical samples.

Variants covered: HHV6 specific - U31 gene.
HHV7 specific - U57 gene.
HHV8 specific - ORF65 gene.

Ordering Information

Commercial Name	Cat No.	Pack Size	Compatible Instruments
HPV-Q Comprehensive Real Time PCR Kit	G2M803921	50 T	Instruments with FAM, ROX, Cy5, HEX/VIC Channels including RAPIcycler - 96, ABI Prism@7500 & Quantstudio, BioRad CFX96, Roche Lightcycler, Qiagen Rotor-Gene, etc.
HPV-Q Real Time PCR Kit	G2M706721	50 T	
HPV-Q ⁺ Comprehensive Real Time PCR Kit	G2M803921 ⁺	50 T	
HPV Q ⁺ Real Time PCR Kit	G2M706721 ⁺	50 T	
STI-Q Comprehensive Real Time PCR Kit	G2M803721	50 T	
STI7-Q Real Time PCR Kit	G2M709121	50 T	
C.Trachomatis-Q Real Time PCR Kit*	G2M804025	50 T	
U. Urealyticum-Q Real Time PCR Kit	G2M801421	50 T	
Mycoplasma Hominis (MH) Q Real Time PCR Kit	G2M707221	50 T	
HSV-Q Real Time PCR Test Kit	G2M705221	50 T	
Trichomonas Vaginalis (TV) Q Real Time PCR Kit	G2M706621	50 T	
Neisseria Gonorrhoeae (NG) Q Real Time PCR Kit	G2M706421	50 T	
Toxo-Q Real Time PCR Kit*	G2M709621	50 T	
Syphilis-Q Real Time PCR Kit	G2M705521	50 T	
HHV-Q Real Time PCR Kit	G2M802421	50 T	