

# PaxView® HPV 20 Genotyping MPCR-ULFA Kit

**Simultaneous detection and genotyping of 20 different HPV genotypes including 14 high-risk HPV types**

PaxView® HPV 20 Genotyping MPCR-ULFA Kit is an in vitro diagnostic kit designed for the detection and genotyping of 20 different human papillomavirus (HPV) types in human cervical swab samples through MPCR-ULFA (Multiplex PCR and Universal Lateral Flow Assay).

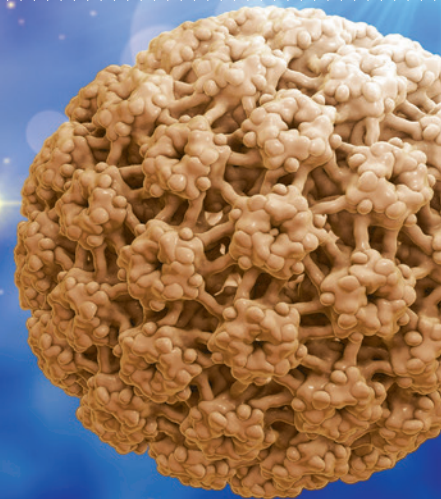


Multiplex MDx

User  
Convenience

Cost  
Effectiveness

U.S. Patent  
Registered



## ■ Features and Advantages

- Composed of 2 panels. Each panel detects 10 types of HPV.
- 14 high-risk HPV types (16, 18, 31, 33, 35, 39, 45, 51, 52, 56, 58, 59, 66, 68)
- 2 probably high-risk HPV types (53, 73)
- 4 low-risk HPV types (6, 11, 69, 70)
- Prevention of PCR carry-over contamination with the use of UDG
- Monitor the entire process including the sample collection, DNA extraction, and PCR through the amplification of the human  $\beta$ -globin gene as an internal control
- All kinds of PCR thermocyclers are usable for the assay
- User-friendly and convenient method
- ULFA results in 20 minutes

PaxView® HPV 20 Genotyping MPCR-ULFA Kit utilizes PaxGenBio's proprietary technology. PCR primers amplifying target genes include the nucleotide sequence complementary to the universal probe immobilized on NC membrane. DNA-DNA hybridization between the probe and its complementary sequence of one end of PCR products with lateral flow assay enables detection of target genes.



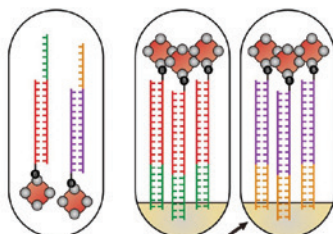
### Proprietary technology MPCR-ULFA

#### ■ Multiplex PCR – ULFA (Universal Lateral Flow Assay)

- Convergence of multiplex molecular diagnostics and rapid diagnostic test technology
- Multiplex PCR amplification and DNA-DNA hybridization with universal lateral flow assay for multiple target detection.
- South Korea, U.S. patent registration

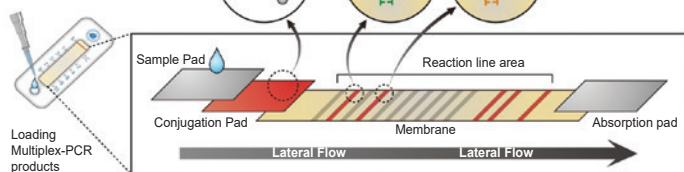
Forward primers include the nucleotide sequence complementary to the DNA probes immobilized on the NC membrane. Reverse primers are biotinylated.

Gold-Streptavidin conjugate binds to biotinylated PCR products, amplified genomic target region.

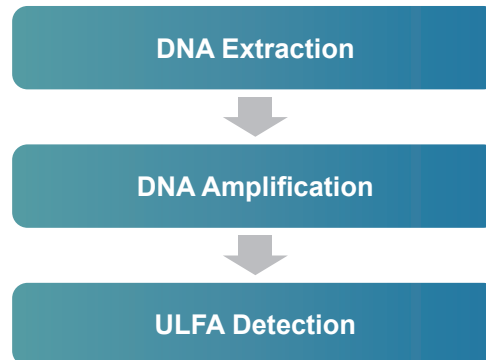


DNA-DNA Hybridization of the universal region of target-amplified PCR product with the universal probe on NC membrane.

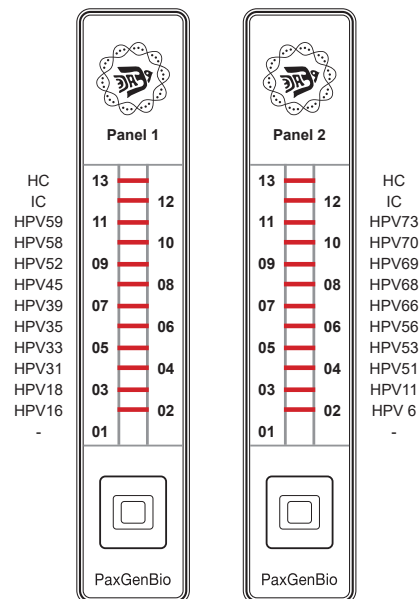
The reaction line turns red by nanogold particles.



### ■ Procedure

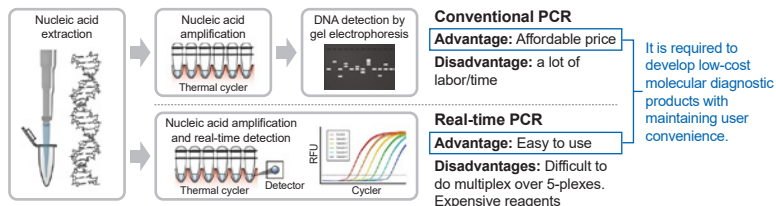


### ■ Interpretation



### Smart Molecular Diagnostics Technology MPCR-ULFA

#### ■ Major Molecular Diagnostics Technology



**MPCR-ULFA**  
(Universal Lateral Flow Assay)

Novel molecular diagnostics technology with low cost and great convenience

Target nucleic acid amplification and detection with lateral flow assay

Convenient on-site confirmation of PCR results  
Use on inexpensive universal kit (membrane)

Patent No.: 10-1727111 (UPAH Tech.)  
Patent No.: 10-1795773 (CAO Tech.)

#### ■ Rapid Multiplex Molecular Diagnostics System

##### MPCR (Multiplex PCR)

- Simultaneous detection and identification of multiple pathogens

- High productivity and price competitiveness

##### ULFA (Universal Lateral Flow Assay)

- Rapid detection
- Results interpreted visually within 10 minutes

- Increased user convenience

### ■ Order information

Model	PaxView® HPV 20 Genotyping MPCR-ULFA Kit
Package	48 tests/Kit
Cat. No.	V0324F
Storage	MPCR: -25 ~ -15°C ULFA: 15 ~ 30°C
Expiration date	12 months



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