

PaxGenBio

Smart Diagnostics with Multiplex PCR & Universal Array Technology

Leading to a New World of Healthcare

www.paxgenbio.com

COMPANY INTRODUCTION About PaxGenBio



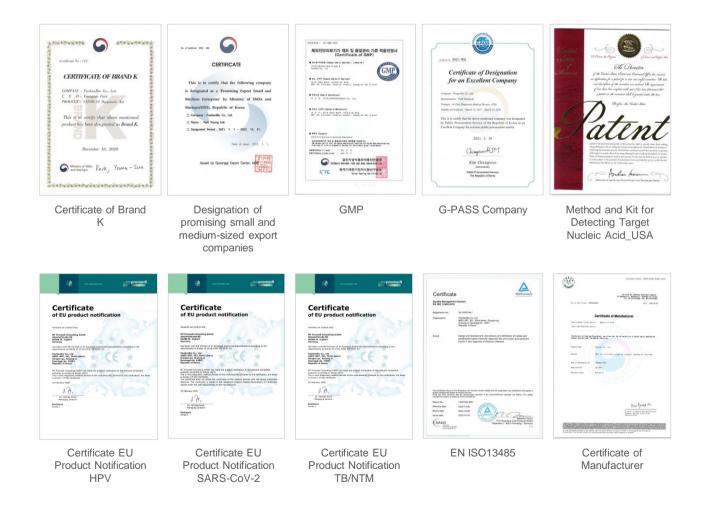


PaxGenBio Co., Ltd. was established in 2015 as a molecular diagnostics company that develops, manufactures and markets a portfolio of IVD products targeting infectious diseases and cancers.

PaxGenBio applies its proprietary, chimeric technologies that combine techniques for molecular and immune diagnostics.

One of its proprietary technologies, MPCR-ULFA that combines multiplex PCR amplification and universal lateral flow assay (ULFA) enables sensitive, specific, fast, affordable and easy nucleic acid tests that are especially appropriate for applications in low resource settings.

Certificate & Patent



COMPANY INTRODUCTION



Company Name	PaxGenBio Co., Ltd.				
• CEO	Young Suk Park	Date of Establishment	May 1, 2015		
Business field	Development and Sales in Convergence Technology of Molecular/Immune Diagnostic Product				
Business Conditions	Manufacture and Wholesale of Bio Products				
Address	#803~807, 361, Simin-daero, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Republic of Korea				
• Tel	+82-31-244-5036	• Fax	+82-31-244-5037		
• Email	info@paxgenbio.com	• Homepage	www.paxgenbio.com		

Company History

2021	03	Designation of Excellent Company for overseas public procurement market		
	02	CE-IVD (PaxView [®] SARS-CoV-2 MPCR-ULFA Kit)		
2020	12	 Designation of Promising Expert Small and Medium Enterprise by MSS Designation of Brand K (COVID-19 Diagnostic Kit) 		
	03	CE-IVD (PaxView [®] COVID-19 real-time RT-PCR Kit)		
	02	CE-IVD (PaxView [®] HPV20 Genotyping MPCR-ULFA Kit)		
2019	09	Minister award given by Ministry of SMZs and Startups(MSS)		
	07	KGMP and Manufacturing License(Relocation Approval)		
2018	11	 Acquire INNOBIZ Certificate CE-IVD (PaxView[®] TB, HPV16/18 MPCR-ULFA Kit) 		
	12	Acquire Certificate of KGMP		
2017	11	 CE-IVD (PaxView[®] TB/NTM, HPV16/18/Others MPCR-ULFA Kit) Acquire Certificate ISO13485 		
2040	04	Acquire MFDS Certificate of medical device manufacture		
2016	03	Registered as a Bio-Venture Company (KOTEC)		
2015	08	Acquire approval of R&D Center (KOITA 2015113870)		
	05	Established PaxGenBio Co., Ltd.		

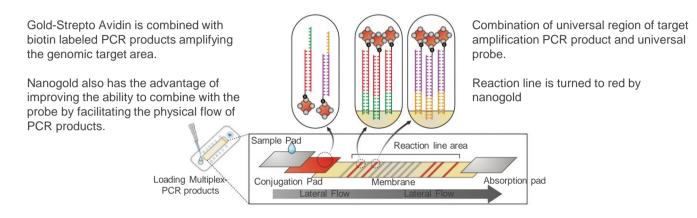
TECHNOLIGY



Proprietary patent technology **MPCR-ULFA**

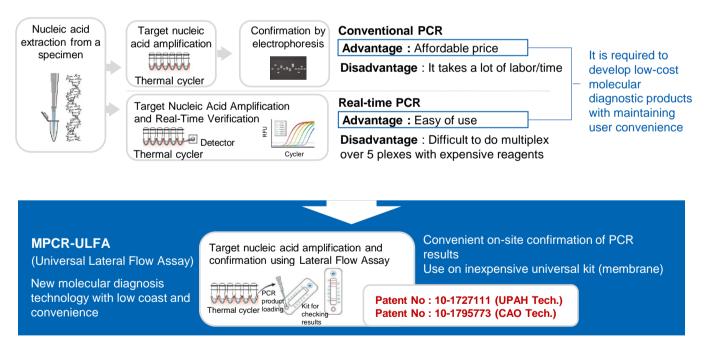
Multiplex PCR – Universal Lateral Flow Assay

- Convergence of Multiplex Molecular Diagnosis and Rapid diagnostic test Technology
- The proprietary technology of PaxGenBio, which can be combined with the universal probe of the NC membrane regardless of the sequence of PCR products.
- · South Korea, U.S. patent registration, application from seven foreign countries



Smart Molecular Diagnosis Technology MPCR-ULFA

Existing Major Molecular Diagnostic Product Technology



Rapid Multiplex Molecular Diagnosis System

MPCR (Multiplex Polymerase Chain Reaction)

- Multiple diagnosis possible
- · Simultaneous amplification of various disease-related genes

ULFA (Universal Lateral Flow Assay array

- Rapid diagnosis possible
- · Results interpretation within 10 to 20 minutes

- Securing high productivity and price competitiveness
- User convenience increase

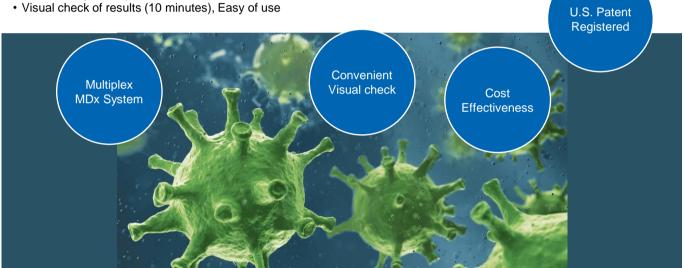
PaxView[®] SARS-CoV-2 MPCR-ULFA Kit

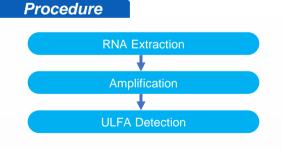
Rapid and convenient molecular diagnostic kit. SARS-CoV-2 infection results can be visually checked.

PaxView® SARS-CoV-2 MPCR-ULFA Kit is a new molecular diagnostics technology that uses PaxGenBio's patented technology MPCR-ULFA (Multiplex PCR – Universal Lateral Flow Assay) and has cost-effectiveness and convenience consisting of MPCR Kit and ULFA Kit.

Features and Advantages

- Application of MPCR-ULFA (Multiplex PCR-Universal Lateral Flow Assay) platform technology, a proprietary patented technology
- One-step RT-PCR in a single tube
- Monitor the entire process including the sample collection, RNA extraction, and RT-PCR through using internal control, Human RNase P gene
- The target genes Orf1ab(RdRp) and N gene
- Limit of detection(LoD) is 10 copies/µl (50 copies/reaction)
- Prevention of PCR carry over contamination using UDG system
- All PCR equipment can be used
- User-friendly & Simple method

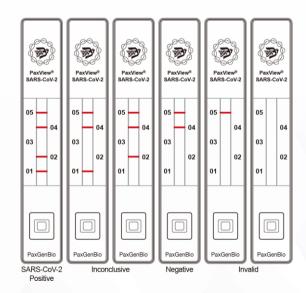




Order information

Model	PaxView [®] SARS-CoV-2 MPCR-ULFA Kit		
Package	96 tests/kit		
Cat. No.	V0531N		
Storage	MPCR : -25 ~ -15°C ULFA : 15 ~ 30°C		
Expiration date	12 months		

Interpretation





CE IVD



PaxView[®] HPV 20 Genotyping MPCR-ULFA Kit

Rapid and convenient molecular diagnostic kit. Identification of 20 different HPV genotypes results can be visually checked.

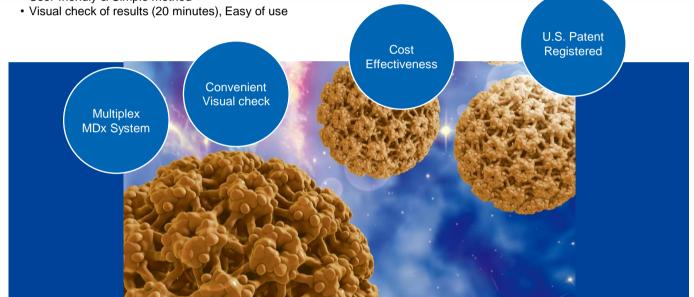
PaxView® HPV 20 Genotyping MPCR-ULFA Kit is a new molecular diagnostics technology that uses PaxGenBio's patented technology MPCR-ULFA (Multiplex PCR – Universal Lateral Flow Assay) with cost-effectiveness and convenience consisting of MPCR Kit and ULFA Kit.

Features and Advantages

- Application of MPCR-ULFA (Multiplex PCR-Universal Lateral Flow Assay) platform technology, a proprietary patented technology
- Monitor the entire process including the sample collection, DNA extraction, and PCR through using internal control, human β -globin gene
- · Prevention of PCR carry over contamination using UDG system
- All PCR equipment can be used
- User-friendly & Simple method

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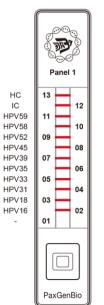


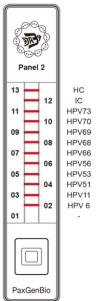


Procedure			
	DNA Extraction		
	↓		
	DNA Amplification		
	+		
	ULFA Detection		
Order information			
	PayView® HPV 20 Genatyping MPCP-III FA		

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

Interpretation







PaxView[®] HPV 16/18/Others MPCR-ULFA Kit

Rapid and convenient molecular diagnostic kit. Detection of two high-risk types (16, 18) and other DNA that all HPV types have in common results can be visually checked.

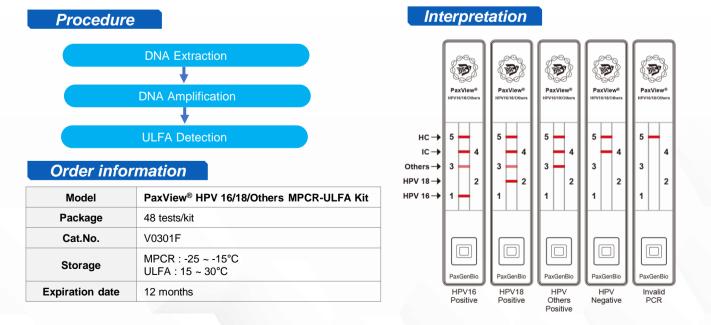
PaxView® HPV 16/18/Others MPCR-ULFA Kit is a new molecular diagnostics technology that uses PaxGenBio's patented technology MPCR-ULFA (Multiplex PCR - Universal Lateral Flow Assay) with cost-effectiveness and convenience consisting of MPCR Kit and ULFA Kit.



Features and Advantages

- Application of MPCR-ULFA (Multiplex PCR-Universal Lateral Flow Assay) platform technology, a proprietary patented technology
- Monitor the entire process including the sample collection, DNA extraction, and PCR through using internal control, human β -globin gene
- Prevention of PCR carry over contamination using UDG system
- All PCR equipment can be used
- User-friendly & Simple method
- · Visual check of results (10 minutes), Easy of use







PaxGenBio

PaxView[®] TB/NTM MPCR-ULFA Kit

Rapid and convenient molecular diagnostic kit for the infection and genotype analysis by naked eye

PaxView® TB/NTM MPCR-ULFA Kit is a new molecular diagnostics technology that uses PaxGenBio's patented technology MPCR-ULFA (Multiplex PCR - Universal Lateral Flow Assay) and has an economical cost and convenience consisting of MPCR Kit and ULFA Kit.

- Features and Advantages
- Simultaneous diagnosis of infection with Mycobacterium tuberculosis complex (MTBC) and Nontubercules mycobacteria (NTM)
- Application of MPCR-ULFA (Multiplex PCR Universal Lateral Flow Assay), the proprietary patented technology of PaxGenBio
- Amplify and detect specific genes, IS6110 or mtp40 for Mycobacterium tuberculosis and rpoB gene for NTM
- High sensitivity and specificity
- Limit of detection(LoD); MTBC: 2 copies/µl, NTM: 10 copies/µl
- All PCR equipment can be used

Expiration date

12 months



User-friendly & Simple method Visual check of results (10 minutes), Easy of use U.S. Patent Registered U.S. Patent Registered

Procedure			Interp	oretatio	n		
DNA Extraction DNA Amplification ULFA Detection Order information		HC → IC → rpoB → mtp40 → IS6110 →	PaxView® TB/NTM	PaxView [®] TB/NTM	PaxView [®] TB/NTM 5 3 4 3 2 1	PaxView [®] TB/NTM 5 4 3 1	PaxView [®] TB/NTM 5 3 2 1
Model	PaxView® TB/NTM MPCR-ULFA Kit						
Package	48 tests/kit						
Cat.No.	V0401F		PaxGenBio	PaxGenBio	PaxGenBio	PaxGenBio	PaxGenBio
Storage	MPCR : -25 ~ -15°C ULFA : 15 ~ 30°C		TB Positive IS6110(+)	TB Positive IS6110(-)	NTM Positive	TB/NTM Negative	Invalid PCR





PaxView[®] MPCR-ULFA Kit User Instructions









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#803~807, 361, Simin-daero, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Republic of Korea **T.** +82-31-244-5036 **F.** +82-31-244-5037 **E.** info@paxgenbio.com **W.** www.paxgenbio.com