

Human Metapneumovirus (HMPV) is a respiratory pathogen first isolated and discovered by Dutch scholars in 2001. Many countries or regions have successively confirmed the prevalence of HMPV, suggesting that HMPV has a global distribution and a long epidemic history.

It primarily causes respiratory tract infections and it is not easy to distinguish different infections based on clinical symptoms alone. It is of great significance to detect HMPV infections and facilitate the selection of reasonable treatment options to prevent large-scale outbreaks.

Tianlong provides a wide product portfolio to detect Human Metapneumovirus (HMPV) based on the fluorescence PCR method. These kits can help detect HMPV quickly and accurately, assisting in the diagnosis, treatment, and public health management of HMPV and other respiratory pathogens.

About HMPV

Human Metapneumovirus (HMPV)	
Virus family	Pneumoviridae
Symptoms	Ranging from mild symptoms like cough, fever, wheezing, nasal congestion to severe symptoms like pneumonia, bronchiolitis, hypoxia, and shortness of breath.
Seasonality	Infection commonly occurs in winter and spring;
Transmission	Primarily by respiratory droplets and touch.
Affected people	HMPV infection is widespread among the population, with all age groups being susceptible. But infants, older people, and immunocompromised people are at higher risk for severe illness.

Diagnosis

Reverse Transcription Polymerase Chain Reaction (RT-PCR) is one of the most commonly used laboratory test methods for diagnosis of Human Metapneumovirus (HMPV) given its accuracy and sensitivity, as advised by WHO.¹

Reference:

¹ [https://www.who.int/news-room/questions-and-answers/item/human-metapneumovirus-\(hmpv\)-infection](https://www.who.int/news-room/questions-and-answers/item/human-metapneumovirus-(hmpv)-infection)

Single Pathogen Detection Kit



Innovative 3-in-1 tube PCR
With reaction solution, primers and PCR enzymes in one tube



Internal Control
Effectively prevent false negative results



High Sensitivity
LoD: 200 copies/mL



Rapid Detection
Within 50 minutes for PCR detection

Tianlong Human Metapneumovirus Nucleic Acid Detection Solution

Cat.No	Product Name	Target Pathogen	Sample Type	Specification
P024H	Human Metapneumovirus Nucleic Acid Detection Kit	HMPV	Oropharyngeal swab samples	25T/Kit
P524H	(Fluorescence PCR Method)			50T/Kit

Cat.No	Product Name	Target Pathogen	Sample Type	Specification
P764H	Respiratory 17 Types Pathogen Multiplex Nucleic Acid Detection Kit (Fluorescence PCR Method; Freeze-dried)	HMPV, IFVA, IFVB, RSV,HRV/EV, SARS CoV-2, MP, CP, HADV, PIV1, PIV2/4, HPIV3,HCoV HKU1/OC43, HCoV NL63/229E, FluA/H3,FluA/H1, HBoV	Oropharyngeal swab samples	24T/Kit Freeze-dried; *For Tianlong Panall 8000

Multiple Pathogen Detection Kit



Drive lab efficiency

Detects and distinguishes multiple types of respiratory pathogens



Reliable Detection

Real-time RT-PCR/PCR based test solution with high sensitivity and specificity



User-friendly

Widely applicable with many instruments

Cat.No	Product Name	Target Pathogen	Sample Type	Specification
P755H	Respiratory 24 Types Pathogen Nucleic Acid Multiplex Detection Kit (Fluorescence PCR Method)	HMPV, FVA, PIV3, BP, RSV A/B, HADV, CP, IFVB, EV, HI, HBoV, PIV4, SP, HCoV 229E,KP, HRV, HCoV NL63, SH, PIV1, HCoV OC43/HKU1, PA, PIV2, MP, S. aureus	Nasopharyngeal or oropharyngeal swab samples	10T/Kit
P740H	Respiratory 12 Types Virus Nucleic Acid Multiplex Detection Kit (Fluorescence PCR Method)	HMPV, IFVA, IFVB, RSV, HBoV,HADV, PIV1,PIV2, PIV3/4,HRV/EV,HCoV 229E/NL63, HCoV OC43/HKU1	Nasopharyngeal or oropharyngeal swab samples	25T/Kit
P232H	Respiratory Virus Nucleic Acid Detection Kit (Fluorescence PCR Method)	HMPV, IFVA,PIV1,HRV/EV, Seasonal H1,RSV,HBoV, PIV2, HCoV 229E/NL63,IFVA (H3),IFVB,HADV, PIV3/4,HCoV OC43/HKU1,IFVA (H1)	Nasopharyngeal or oropharyngeal swab samples	10T/Kit

Data Interpretation

Figure 1: Amplification curve of HMPV in high concentrations

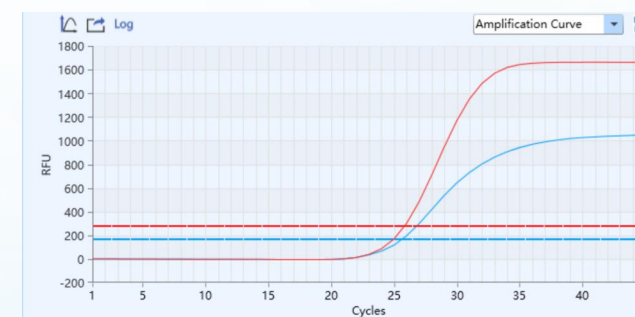
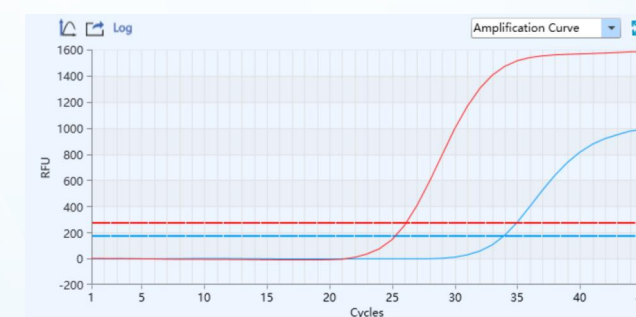
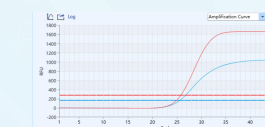


Figure 2: Amplification curve of HMPV in low concentrations



ASSAY WORKFLOW



Version 1.0

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