

 NMPA FSC

# Diagnostics Kit for Quantification of Human Immunodeficiency Virus Type 1 (HIV-1) (PCR-Fluorescence Probing)

## Intended Use

This kit is used for the **quantitative** detection of human immunodeficiency virus type 1 nucleic acid RNA in human serum or plasma specimens.



## Advantages

Detect 99% of the HIV infection virus type

Unique detection of HIV-1 Group M, N and O

LOD: 100 IU/mL

Internal control to monitor the whole process

## About HIV-1

HIV-1 is the predominant strain of HIV in the world today. It is easier to transmit and more capable of causing rapid disease progression than HIV-2. **Over 99% of HIV infections today are caused by HIV-1.**

HIV-1 is further classified into four groups: M (the major group), N, O (the outlier group), and P. **More than 90% of HIV-1 cases involve HIV-1 group M.**



## Background

WHO estimate worldwide **37.7 million** people living with HIV at the end of 2020, **680000** people died from HIV-related causes and **1.5 million** people acquired HIV.



**37 700 000**

Number of living with HIV at the end of 2020



**15 00 000**

People were newly infected with HIV in 2020



**680 000**

People died of HIV-related causes in 2020

WHO's 2022–2030 global health sector strategy on HIV aims to reduce HIV infections to 335,000, and deaths to under 240,000 by 2030.

Source: <https://www.who.int/health-topics/hiv-aids>

## Parameters

Test Principle	Fluorescent PCR technology
Specimen type	Serum or plasma
Fluorescence channel	FAM, VIC
LOD	100 IU/mL
Range of linearity	250 IU/mL ~ 1.0×10 <sup>8</sup> IU/mL
Storage and shelf life	-20±5°C, 9 months
Applicable Instruments	ABI Prism 7300, ABI Prism 7500, LightCycler480

## Order Information

Product name	Cat. No.	Package
Diagnostics Kit for Quantification of Human Immunodeficiency Virus Type 1 (HIV-1) (PCR-Fluorescence Probing)	DA0330	Single tube for single test, 48 tests/kit
	DA0331	Large package, 48 tests/kit

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