

VECTOR-BORNE DISEASES



DENGUE

solution



www.bioperfectus.com

BACKGROUND INFORMATION

Dengue is the most prevalent viral infection transmitted by Aedes mosquitoes. More than 3.9 billion people in over 129 countries are at risk of contracting dengue, with an estimated 96 million symptomatic cases and an estimated 40,000 deaths every year. The mosquito-borne virus can cause the onset of dengue fever in an individual which can develop into the more severe form of dengue hemorrhagic fever that causes plasma leakage. This fever can lead to a shock syndrome which can cause death in children and aged patients. The infection can be caused by any one of the serotypes of dengue viruses (DENV 1 to 4) which are generally carried by the female mosquito species *Aedes aegypti*.

DETECTION METHOD

Several methods can be used for the diagnosis of DENV infection. These include **virological tests** (that directly detect elements of the virus, such as RT-PCR) and **serological tests**, which detect human-derived immune components that are produced in response to the virus. Depending on the progress of infectious, the laboratory could choose different diagnostic methods. Patient samples collected during the first week of illness should be tested by both serological (antigen, such as NS1) and virological methods (RT-PCR). Serological tests for immunoglobulin can provide information of primary or secondary infection status.



PRODUCT FEATURES



◆ **DIVERSIFIED PRODUCTS**
Satisfy serological and virological detection demands in whole infectious progress



◆ **QUICK RESULTS**
Get rapid test results within 15 minutes



◆ **QUICK RESULTS**
Get PCR results within 79 minutes on mainstream instruments



◆ **CERTIFICATES**
CE approved

PACKAGING

CATALOG	PRODUCT	PACKAGE
SC20101W	Dengue NS1 Ag Rapid Test Kit	20T/25T/50T
SC20201W	Dengue IgG/IgM Rapid Test Kit	20T/25T/50T
SC20301W	Dengue (NS1 Ag+IgG/IgM) DUO Rapid Test Kit	20T/25T/50T
JC30202NW	Dengue Virus Type 1 & Type 2 Real Time PCR Kit	25T/50T
JC30203NW	Dengue Virus Type 3 & Type 4 Real Time PCR Kit	25T/50T
JC30302NW	Zika Virus/Dengue Virus/Chikungunya Virus Real Time PCR Kit	25T/50T
JC30101NW	Dengue Virus Real Time PCR Kit	48T

Dengue NS1 Ag Rapid Test Kit

- Clinical sensitivity: 97.22%
- Clinical specificity: 99.35%
- Shelf life: 18 months
- Sample type: Human serum and plasma



Dengue IgG/IgM Rapid Test Kit

- Clinical sensitivity:
 - 96.54% (IgM)
 - 87.29% (IgG)
 - 97.34% (IgG&IgM)
- Clinical specificity:
 - 98.82% (IgM)
 - 97.45% (IgG)
 - 98.13% (IgG&IgM)
- Shelf life: 18 months
- Sample type: Human serum and plasma



Dengue (NS1 Ag+IgG/IgM) DUO Rapid Test Kit

- Clinical sensitivity:
 - 96.09% (NS1 Ag)
 - 96.37% (IgM&IgG)
 - 96.90% (NS1 Ag+IgG&IgM)
- Clinical specificity:
 - 99.37% (NS1 Ag)
 - 98.45% (IgM&IgG)
 - 99.05% (NS1 Ag+IgG&IgM)
- Shelf life: 18 months
- Sample type: Human serum and plasma



Dengue Virus Type 1 & Type 2 Real Time PCR Kit



- Multiplex real-time PCR detect Dengue Virus Type 1 & Type 2
- LOD: 5 copies/reaction
- Sample type:
Human whole blood,
serum, plasma and urine

Dengue Virus Type 3 & Type 4 Real Time PCR Kit

- Multiplex real-time PCR detect Dengue Virus Type 3 & Type 4
- LOD: 5 copies/reaction
- Sample type:
Human whole blood,
serum, plasma and urine



Zika Virus/Dengue Virus/Chikungunya Virus Real Time PCR Kit

- Multiplex real-time PCR detect dengue, chikungunya and Zika viruses
- LOD: 5 copies/reaction
- Sample type: Human serum, whole blood (EDTA), cerebrospinal fluid (CSF), urine and amniotic fluid



Dengue Virus Real Time PCR Kit

- Detection of Dengue virus, verified with DENV1/2/3/4 serotypes
- Limit of Detection: 1×10^3 TCID₅₀/mL
- Sample type: Human serum



A leading molecular diagnostic

solution provider

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