



Dengue Virus/Zika Virus/Chikungunya Virus Nucleic Acid Detection Kit (Fluorescent PCR)

■ | Product Introduction

Dengue virus (DENV), Zika virus (ZIKV), and Chikungunya virus (CHIKV) are mosquito-borne pathogens widely distributed in tropical and subtropical regions, causing similar symptoms such as fever, rash, headache, nausea, and muscle/joint pain.

DENV has four serotypes and belongs to the Flaviviridae family; ZIKV is also Flaviviridae and can be transmitted via mosquitoes, mother-to-child, sexual contact, and blood; CHIKV belongs to the Togaviridae family and is mainly spread by *Aedes aegypti* and *Aedes albopictus*.

This kit enables simultaneous qualitative detection of DENV, ZIKV, and CHIKV in a single reaction. It uses the human β -globin gene as a universal internal control—endogenous for human samples and exogenous for mosquito samples—to monitor the entire process and reduce false-negative results.

■ | Product Features



Easy Operation

Pre-mixed reagent design minimizes sample preparation time and streamlines the workflow.



Multiplex Detection

Simultaneous qualitative detection of ZIKV, DENV (DENV-1, DENV-2, DENV-3, DENV-4), and CHIKV in a single reaction, improving detection efficiency.



Internal Control

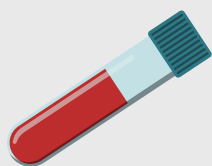
Human β -globin gene serves as an internal control to monitor nucleic acid extraction and PCR amplification efficiency, ensuring reliable results and reducing false negatives.



High Sensitivity

Limit of detection as low as 500 copies/mL, enabling accurate identification of low-concentration pathogens and minimizing missed diagnoses.

Product Workflow



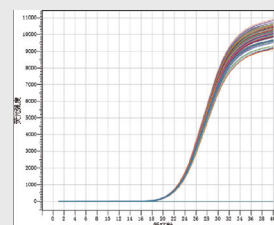
1.Sample Collection



2.Nucleic Acid Extraction



3.Real-Time PCR Detection



4.Data Analysis

Product Specifications

Parameter Name	Description
Sample Type	Human serum, plasma, whole blood, cerebrospinal fluid, urine, saliva, tissue culture specimens, or mosquito vector samples
Sensitivity	500 copies/mL
Internal Control	β -globin
Detection Channel	FAM (DENV), HEX/VIC (ZIKV), ROX (CHIKV), CY5(Internal Control)
Precision	The variation coefficient (CV) of within-day, between-day, within-batch and between-batch were less than 5%
Specificity	No cross-reactivity with hepatitis B virus, influenza A virus, influenza B virus, herpes simplex virus, human cytomegalovirus, adenovirus, Haemophilus influenzae, Legionella pneumophila, Moraxella catarrhalis, Mycoplasma pneumoniae, Neisseria spp., Staphylococcus aureus, Klebsiella pneumoniae, enterovirus EV71, or the human genome.
Detection Capability	Qualitative detection
Recommended Extraction Kit	BSC71 MagaBio plus Virus DNA/RNA Purification Kit II BSC86 MagaBio Plus Virus DNA/RNA Purification Kit III BSC110 MagaBio plus Virus DNA/RNA Purification Kit VI
Compatible Platform	FQD-96A, FQD-96C, FQD-A1600, FQD-A9600
Time	35 min

Ordering Information

Product Name	Cat. No.	Package	Storage Condition
Dengue Virus/Zika Virus/Chikungunya Virus Nucleic Acid Detection Kit (Fluorescence PCR)	BSJ90S1/M1/L1	24T/48T/96T	-25°C ~ -15°C



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