



# Chikungunya Virus Nucleic Acid Detection Kit (Fluorescence PCR)

## ■ | Product Introduction

Chikungunya is a viral illness caused by the chikungunya virus, primarily spread to humans through the bites of infected mosquitoes. The disease has led to both widespread outbreaks and isolated cases, particularly in regions of the Americas, Asia, and Africa, with occasional smaller outbreaks also occurring in Europe. The virus was first identified in the Americas in 2013 on the island of St. Martin, and it rapidly spread, infecting over a million people in the region within a year.

The Chikungunya Virus (CHIKV) Nucleic Acid Detection Kit (Fluorescence PCR) is designed for the precise and rapid detection of CHIKV infections. It targets highly conserved regions of the CHIKV genome with specific primers and fluorescent probes, enabling efficient amplification and specific detection through fluorescence quantitative PCR (qPCR) technology. The kit uses the human  $\beta$ -globin gene, labeled with CY5 dye, as a universal internal control—functioning as an endogenous control for human samples and an exogenous control for mosquito-borne samples. This built-in control monitors the entire process from sample collection and transportation to nucleic acid extraction and detection, ensuring reliability and reducing the risk of false-negative results.

## ■ | Product Features



### Convenient and Simple

Ready-to-use premix, minimizes pipetting errors, and improves repeatability.



### Internal Control

Enables monitoring of nucleic acid extraction and PCR amplification efficiency, ensuring reliable results and reducing false negatives.



### Rapid Amplification within 30 minutes

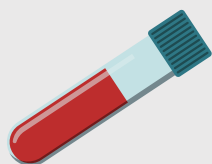
Delivers fast and accurate results, supporting timely clinical decision-making during outbreak response.



### Multiple Packaging Formats

Available in liquid premix and lyophilized forms to meet diverse customer needs.

## Product Workflow



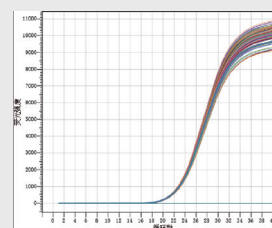
1. Sample Collection



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, tissue cultures, viral cultures and mosquito-borne samples
Sensitivity	200 copies/mL
Internal Control	$\beta$ -globin
Precision	The variation coefficient (CV) of within-day, between-day, within-batch and between-batch were less than 3%
Specificity	No cross-reactivity with Zika virus, Dengue virus, or other related viruses.
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
Time	30 min

## Ordering Information

Product Name	Cat. No.	Package	Storage Condition
Chikungunya Virus Nucleic Acid Detection Kit (Fluorescence PCR)	BSJ91S1A/M1A/L1A	24T/48T/96T	-25°C ~ -15°C
Chikungunya Virus Lyophilized Nucleic Acid Detection Kit (Fluorescence PCR)	BSJ93S1/M1/L1	24T/48T/96T	-25°C ~ 8°C



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