

West Nile Virus

Real Time PCR Kit



Introduction

West Nile Virus (WNV) is a member of the *flavivirus* genus and belongs to the Japanese encephalitis antigenic complex of the family *Flaviviridae*. It is commonly found in Africa, Europe, the Middle East, North America and West Asia.

WNV can cause neurological disease and death in people. Human infection is most often the result of bites from infected mosquitoes. Infection with WNV is either asymptomatic (no symptoms) in around 80% of infected people, or can lead to West Nile fever or severe West Nile disease. About 20% of people who become infected with WNV will develop West Nile fever. Symptoms include fever, headache, tiredness, and body aches, nausea, vomiting, occasionally with a skin rash (on the trunk of the body) and swollen lymph glands.

The BioPerfectus West Nile Virus Real Time PCR Kit is based on real-time PCR technology. Specific primers and probes are designed based on specific gene areas of West Nile virus (NS5 gene).

Parameters

LOD	5 copies/reaction
Sample Input Volume	5 µL
Sample Type	human whole blood and serum
No cross-reactivity	Dengue virus (Type 1-4), Zika Virus, Yellow Fever Virus, Chikungunya Virus, Saint Louis Encephalitis Virus, Japanese Encephalitis Virus, Marburg Virus, Crimean Congo Hemorrhagic Fever Virus, Lassa Virus, Seoul Virus, Xinjiang Hemorrhagic Fever Virus
Storage Temperature	-20±5°C
Shelf-life	12 months

Packaging

Catalog	Product	Package
YJC70109NW-25T	West Nile Virus Real Time PCR Kit	25T/Kit
YJC70109NW-50T		50T/Kit

Kit Components

Components	Vials/Kit	Volume/25T	Volume/50T
RT-PCR Buffer	1	188 µL	375 µL
RT-PCR Enzyme	1	125 µL	250 µL
Detection Mix	1	188 µL	375 µL
Positive Control	1	25 µL	50 µL
Blank Control	1	250 µL	250 µL

Approved

CE marked

Feasible

compatible with multiple sample types

Efficient

84 min for 96 samples

Reliable

5 copies/reaction with internal control

Specificity

no cross-reactivity to common tropical viruses

Easy-to-use

Auto interpretation results with STC real-time PCR systems

Features



Total PCR Solution

Nucleic Acid Extraction Reagent	Nucleic Acid Extraction Rapid Kit (Magnetic Bead Method)	Viral Nucleic Acid Extraction Kit (Magnetic Bead Method)	Viral Nucleic Acid Isolation Kit (Silica-Based Spin Column)
Nucleic Acid Extraction System	SSNP-2000B, 3000A,9600A (32, 64, 96 channels) SMPE-960 (3*32 channels) SAW-96,48* (96, 48 channels) <i>*coming soon</i>		
PCR instrument	Bioperfectus STC-96A, STC-96A PLUS, Applied Biosystems 7500, QuantStudio™ 5, Roche LightCycler®480, Bio-Rad CFX96™, QIAGEN Rotor-Gene Q, Analytik Jena qTOWER³		

Instruction for Use



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