

VIASURE

West Nile Virus Real Time PCR Detection Kit

Pathogen and product description

Since its initial in Uganda in 1937 through the present, West Nile Virus (WNV) has propagated to a vast region of the globe and is now considered the most important causative zoonotic pathogen of viral encephalitis worldwide.

In nature, there is an enzootic transmission cycle of WNV between birds (hosts) and mosquitoes (bridge vectors) of the genus *Culex* and *Aedes*. But this virus can infect other vertebrates and humans, between which it has been reported additional methods of transmission: blood transfusion, organ transplantation, transplacental transmission, and via breastmilk. Most human infections with WNV – 80%- are asymptomatic or characterized by a mild-febrile syndrome

and flu-like malaise. Nevertheless, fewer than 1% infection may progress to more severe neuroinvasive disease (WNND) and even death, depending on the host immune response and the viral strain. WNND usually encompasses three different syndromes: encephalitis, meningitis, and acute flaccid paralysis.

VIASURE *West Nile Virus* Real Time PCR Detection Kit is designed for the diagnosis of the West Nile virus in clinical samples. The isolated RNA target is transcribed generating complementary DNA by reverse transcriptase which is followed by the amplification of a conserved sequence of genomic region 5'UTR using specific primers and a fluorescent-labeled probe.

Lyophilised product

"Ready
& Easy-to-use" Kits



Long term stability.
Transport and storage at
room temperature



Shelf-life: 24 months
(for all our qPCR
products)



From 1 up to 96 samples
per assay



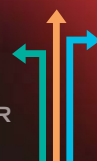
High sensibility, specificity
and reproducibility



Validated according to
ISO 13485
and CE marked

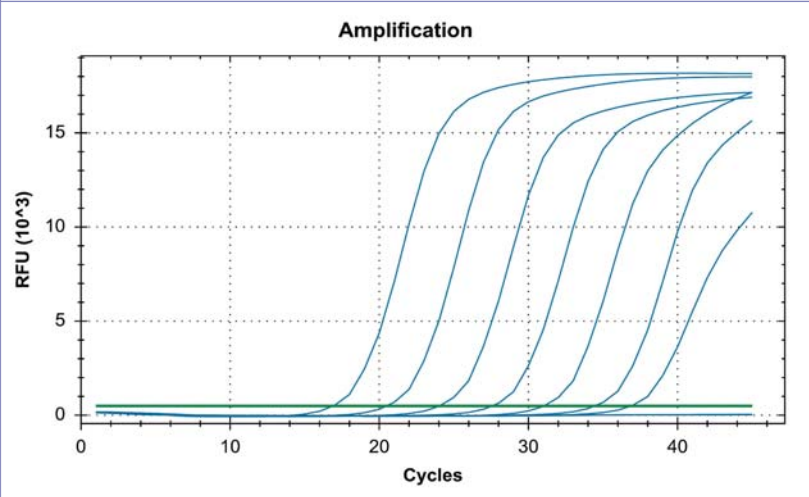


THE REAL ONE STEP qPCR



Analytical sensitivity

VIASURE West Nile Virus Real Time PCR Detection Kit has a detection limit of ≥ 10 RNA copies per reaction.



Dilution series of West Nile Virus (10⁷-10¹ copies/rxn) template run on the Bio-Rad CFX96 Touch™ Real-Time PCR Detection System.

Components

Reagent/Material	Description	Quantity
West Nile Virus 8-well strips	A mix of enzymes, primers-probes, buffer, dNTPs, stabilizers and Internal control in stabilized format	6/12 x 8-well strip
West Nile Virus 96-well plate	A mix of enzymes, primers-probes, buffer, dNTPs, stabilizers and Internal control in stabilized format	1 plate
Rehydration Buffer	Solution to reconstitute the stabilized product	1 vial x 1,8 mL
West Nile Virus Positive Control	Non-infectious synthetic lyophilized cDNA	1 vial
Negative Control	Non template control	1 vial x 1 mL
Water RNase/DNase free	Water RNase/DNase free	1 vial x 1 mL
Tear-off 8-cap strips	Optical caps for sealing Wells during thermal cycling	6/12 x 8-cap strip
Shell Frame Grid	Shell Frame Grid	1 or 2

Kit References

Reference	Description
VS-WNV106L	Viasure West Nile Virus Real Time PCR Detection Kit 6 x 8-well strips, low profile
VS-WNV106H	Viasure West Nile Virus Real Time PCR Detection Kit 6 x 8-well strips, high profile
VS-WNV112L	Viasure West Nile Virus Real Time PCR Detection Kit 12 x 8-well strips, low profile
VS-WNV112H	Viasure West Nile Virus Real Time PCR Detection Kit 12 x 8-well strips, high profile
VS-WNV113L	Viasure West Nile Virus Real Time PCR Detection Kit 96-well plate, low profile
VS-WNV113H	Viasure West Nile Virus Real Time PCR Detection Kit 96-well plate, high profile

Work Flow

One-step rehydration of wells and add your extracted RNA

