

# VIASURE

## *Dengue Virus* Real Time PCR Detection Kit

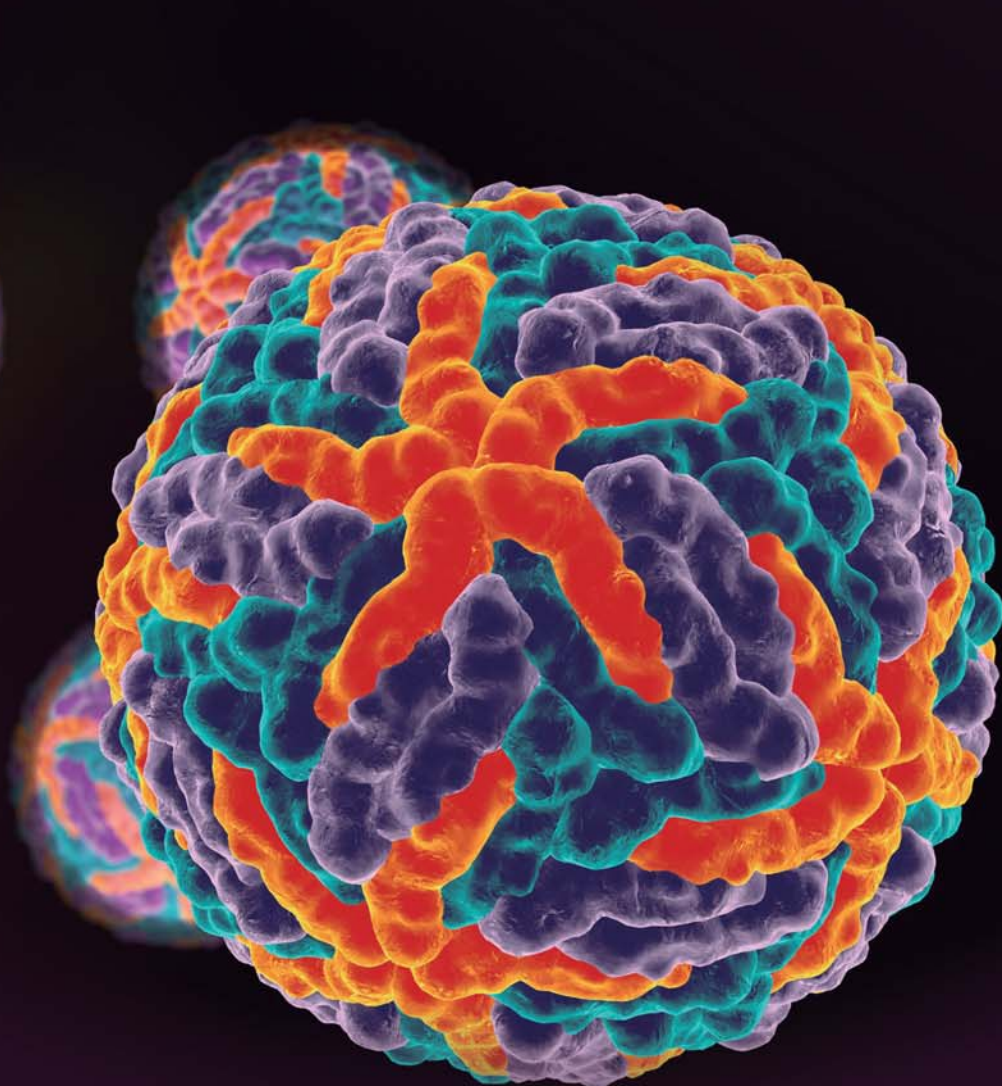
### Pathogen and product description

**D**engue virus (DENV) belongs to the genus *Flavivirus* and is transmitted by *Aedes* sp. mosquitoes. An estimated 50 million dengue infections occur annually and approximately 2.5 billion people live in dengue endemic countries. In non-endemic countries, dengue is one of the causes of febrile illness among travelers returning from tropical or subtropical areas of the Caribbean, Latin America and Asia.

The majority of DENV infections are asymptomatic. The symptoms are 2 – 7 days fever, accompanied by one or more of the following symptoms: headache, retro-orbital eye pain, joint pain, muscle

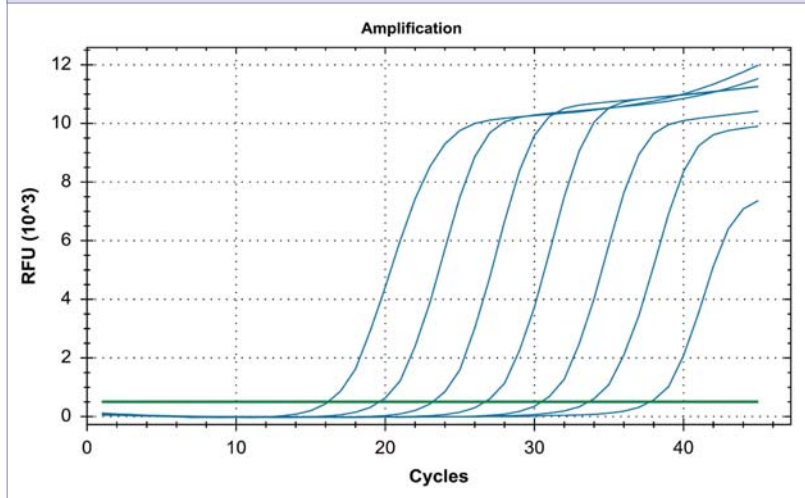
and/or bone pain, rash, mild bleeding manifestations and low white cell count.

VIASURE *Dengue Virus* Real Time PCR Detection Kit is designed for the diagnosis of the Dengue virus in clinical samples. The detection is done in one step real time RT format where the reverse transcription and the subsequent amplification of specific target sequence occur in the same reaction well. The isolated RNA target is transcribed generating complementary DNA by reverse transcriptase which is followed by the amplification of the 3' non coding region using specific primers and a fluorescent-labeled probe.



Analytical sensitivity

VIASURE Dengue Virus Real Time PCR Detection Kit has a detection limit of  $\geq 10$  RNA copies per reaction.



Dilution series of Dengue Virus ( $10^7$ - $10^1$  copies/rxn) template run on the Bio-Rad CFX96 Touch™ Real-Time PCR Detection System.

Components

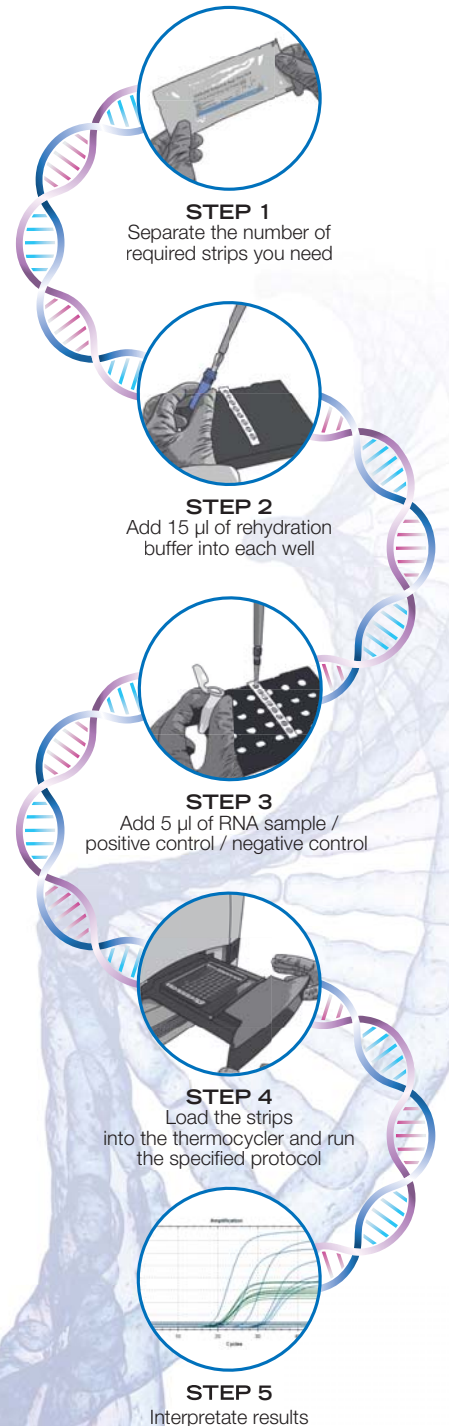
Reagent/Material	Description	Quantity
Dengue Virus 8-well strips	A mix of enzymes, primers-probes, buffer, dNTPs, stabilizers and Internal control in stabilized format	6/12 x 8-well strip
Dengue Virus 96-well plate	A mix of enzymes, primers-probes, buffer, dNTPs, stabilizers and Internal control in stabilized format	1 plate
Rehydration Buffer	Solution to reconstitute the stabilized product	1 vial x 1,8 mL
Dengue 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-DEN106L	Viasure Dengue Virus Real Time PCR Detection Kit 6 x 8-well strips, low profile
VS-DEN106H	Viasure Dengue Virus Real Time PCR Detection Kit 6 x 8-well strips, high profile
VS-DEN112L	Viasure Dengue Virus Real Time PCR Detection Kit 12 x 8-well strips, low profile
VS-DEN112H	Viasure Dengue Virus Real Time PCR Detection Kit 12 x 8-well strips, high profile
VS-DEN113L	Viasure Dengue Virus Real Time PCR Detection Kit 96-well plate, low profile
VS-DEN113H	Viasure Dengue Virus Real Time PCR Detection Kit 96-well plate, high profile

Work Flow

One-step rehydration of wells and add your extracted viral RNA



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