

VIASURE

Mayaro Virus Real Time PCR Detection Kit

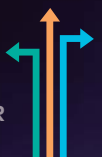
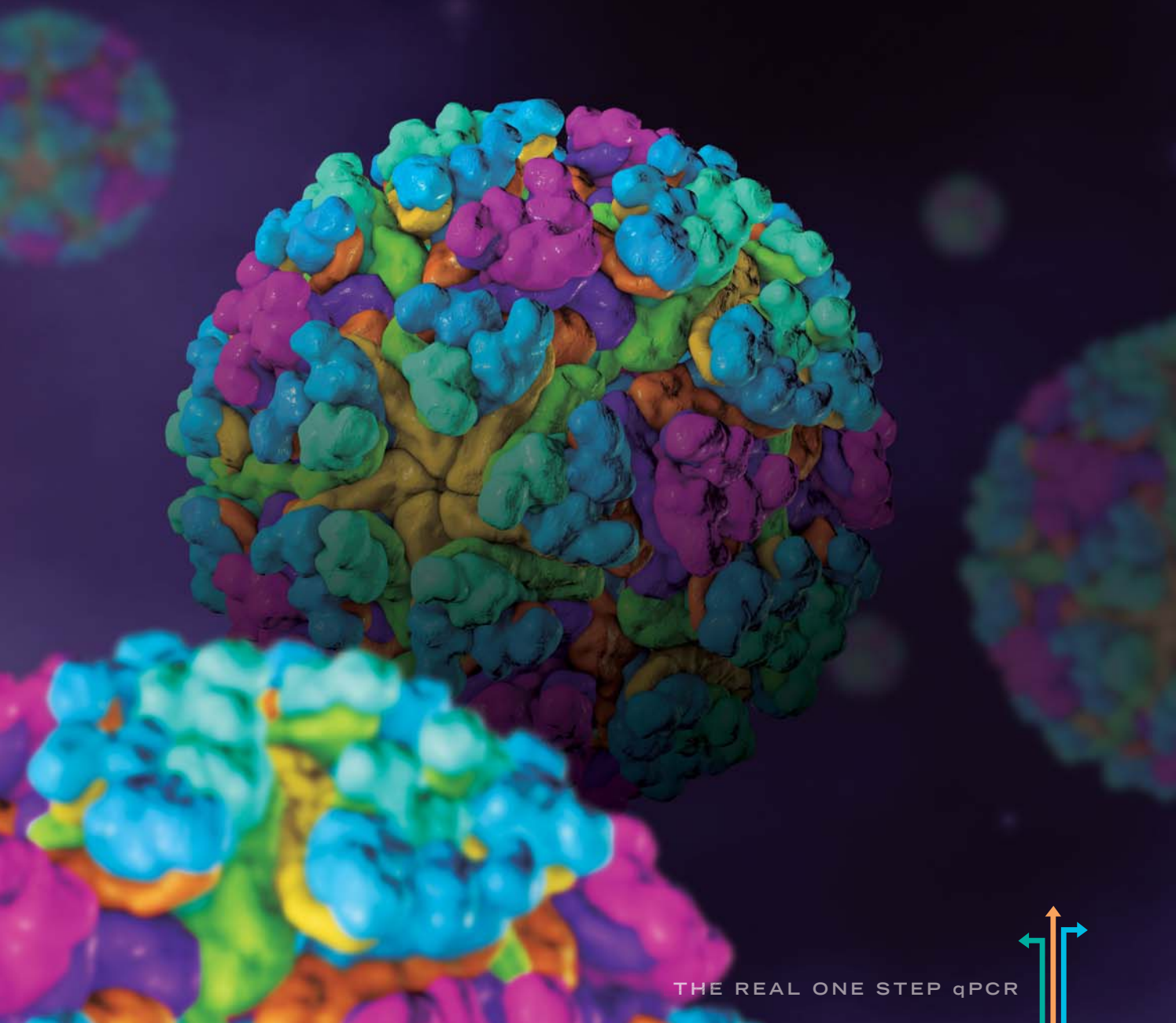
Pathogen and product description

Mayaro virus (MAYV) belongs to the genus *Alphavirus*, family *Togaviridae*. Its transmission cycle is thought to occur mainly through mosquito vectors, especially those of genus *Haemagogus*, but *Aedes spp.* mosquitoes may also be competent vectors. These vectors transmit the virus to primates and birds and sometimes to humans.

The disease caused by Mayaro lasts for 3-5 days and includes fever, headache, rash, myalgia, arthralgia and, occasionally, arthritis, which can be very debilitating and can persist for months. This symptomatology is quite similar to other arthropod-borne virus, being sometimes clinically indistinguishable from dengue, chikungunya fever,

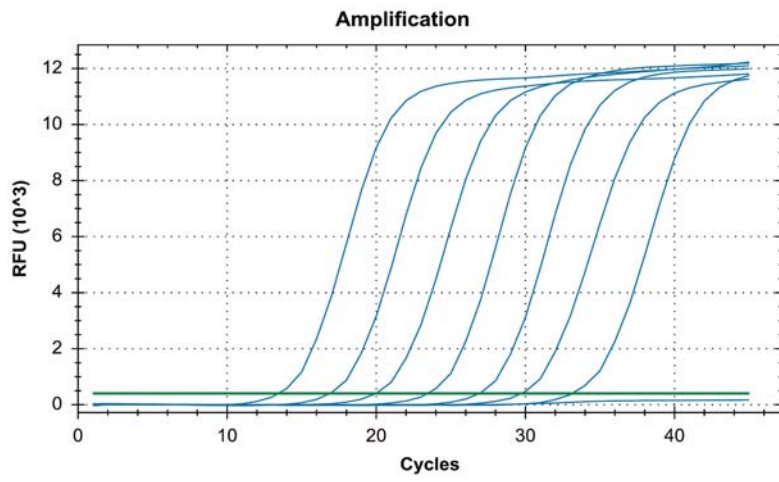
malaria, rabies, measles or other arboviral diseases, so it is required to use a reliable and specific test to avoid this misdiagnosis.

VIASURE *Mayaro Virus* Real Time PCR Detection Kit is designed for the diagnosis of the Mayaro 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 *nsp1* gene using specific primers and a fluorescent-labelled probe.



Analytical sensitivity

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



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

Components

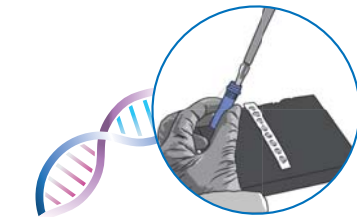
Reagent/Material	Description	Quantity
Mayaro Virus 8-well strips	A mix of enzymes, primers-probes, buffer, dNTPs, stabilizers and Internal control in stabilized format	6/12 x 8-well strip
Rehydration Buffer	Solution to reconstitute the stabilized product	1 vial x 1,8 mL
Mayaro Virus Positive Control	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

Kit References

Reference	Description
VS-MYV106L	Viasure Mayaro Virus Real Time PCR Detection Kit 6 x 8-well strips, low profile
VS-MYV106H	Viasure Mayaro Virus Real Time PCR Detection Kit 6 x 8-well strips, high profile
VS-MYV112L	Viasure Mayaro Virus Real Time PCR Detection Kit 12 x 8-well strips, low profile
VS-MYV112H	Viasure Mayaro Virus Real Time PCR Detection Kit 12 x 8-well strips, high profile
VS-MYV113L	Viasure Mayaro Virus Real Time PCR Detection Kit 96-well plate, low profile
VS-MYV113H	Viasure Mayaro Virus Real Time PCR Detection Kit 96-well plate, high profile

Work Flow

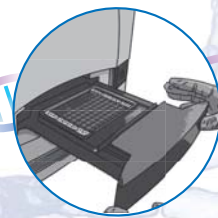
One-step rehydration of wells and add your extracted RNA



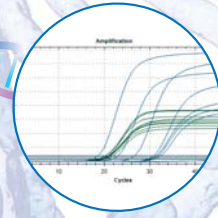
STEP 1
Add 15 μ l of rehydration buffer into each well



STEP 2
Add 5 μ l of RNA sample / positive control / negative control



STEP 3
Load the strips into the thermocycler and run the specified protocol



STEP 4
Interpretate results



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