



Dengue virus detection microdevice; Production Technology of Dengue Virus Detecting Microdevice; A kit contain that same identification method for dengue fever

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Technology description

Introduction

Misdiagnosis remains one of the leading causes of death from dengue fever in Brazil. Experts say the diagnosis is largely wrong because the symptoms of dengue fever are very similar to those of other diseases such as influenza, pneumonia, meningitis, rubella, measles and viruses.

Immediate diagnosis of dengue fever can speed up the treatment of patients in case the result is positive, leading to a reduction in dengue deaths in Brazil and worldwide.

Objective

The present invention is an immunosensor for detecting and quantifying dengue virus NS1 protein in blood samples. It can be used as a diagnosis in the early stages of infection, when no antibodies are produced.

The results were presented in the range of 20 ~ 30 minutes. Detection of the virus on the second day of infection; The examination may be performed at the location of the patient because of the portability of the location; No special technician is required to operate the equipment; Low manufacturing cost.

(a) The diagnosis is made by means of the Immunosensor Toolkit as follows: a sample of the patient's whole blood or plasma is taken and dripped into the appropriate location in the measuring cells. Wait for a period of time for the reaction (20 to 30 minutes) and the results and concentration levels are displayed on a display.

Application area

Target audience: Clinical diagnostic kit manufacturer.

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