



**User's Manual**

# Dengue virus IgM $\mu$ capture ELISA Kit



DEIABL333



96T



This product is for research use only and is not intended for diagnostic use.

For illustrative purposes only. To perform the assay the instructions for use provided with the kit have to be used.

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## PRODUCT INFORMATION

### Intended Use

Enzyme immunoassay for the qualitative determination of antibodies against Dengue virus in human serum or plasma.

### General Description

Dengue virus is a single-stranded RNA virus of about 50 nm in diameter belonging to the genus *Flavivirus*. Dengue and dengue hemorrhagic fever are caused by one of four closely related, but antigenically distinct, virus serotypes (DEN-1, DEN-2, DEN-3, and DEN-4). Infection with one of these serotypes does not provide cross-protective immunity, so persons living in a dengue-endemic area can have four dengue infections during their lifetimes. The viruses are transmitted by *Aedes aegypti*, a domestic, day-biting mosquito that prefers to feed on humans. Infection with dengue viruses produces a spectrum of clinical illness ranging from a nonspecific viral syndrome to severe and fatal hemorrhagic disease. It is primarily a disease of the tropics; its global distribution is comparable to that of malaria, and an estimated 2.5 billion people live in areas at risk for epidemic transmission. Globally, there are an estimated 50 to 100 million cases of dengue fever and several hundred thousand cases of dengue hemorrhagic fever. The case-fatality rate of DHF in most countries is about 5%; most fatal cases are among children and young adults.

Important risk factors for DHF include the strain and serotype of the infecting virus, as well as the age, immune status, and genetic predisposition of the patient. Risk groups are residents of or visitors to tropical urban areas.

### Storage

2-8°C

### Precision

<b>Intraassay</b>	<b>n</b>	<b>Mean (OD)</b>	<b>CV (%)</b>
Serum #1	23	0.530	3.2
Serum #2	24	1.019	2.4
Serum #3	24	0.986	2.8
<b>Interassay</b>	<b>n</b>	<b>Mean (U)</b>	<b>CV (%)</b>
Serum #2	12	20.02	4.8
Serum #4	12	8.96	6.2
Serum #5	12	5.32	5.8