Hear it from the Experts!

Erba® Mannheim

TRANSASIA®
No.1 Diagnostic Company in India

" We found that ELISA kits had superior sensitivity when compared to RDTs . "

Source: Evaluation of Dengue NS 1 rapid tests and ELISA kits using clinical samples. Pal S, Dauner AL, Mitra I, Forshey BM, Garcia P, Morrison AC, et al., PLoS One. v9(11); 2014.

" Dengue NS1 antigen ELISA is very useful & specific tool in diagnosing cases of acute dengue infection but when combined with IgM antibody ELISA, it can significantly improve diagnostic efficacy in dengue infection. This can definitely help resource-limited countries like India which experiences outbreak annually and it is a seasonal trend. "
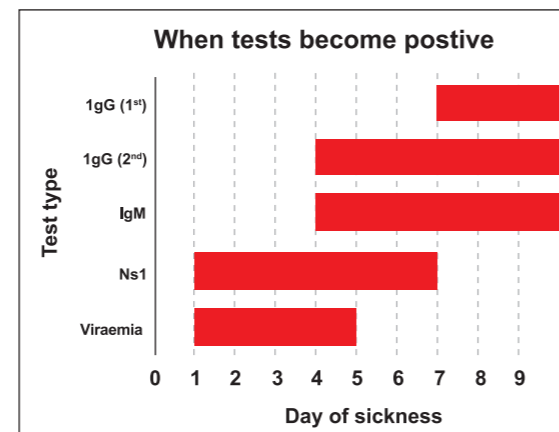
Source: Evaluation of NS1 antigen-capture ELISA and IgM antibody capture ELISA in acute cases of dengue in rural population in a tertiary care teaching hospital in western Uttar Pradesh, India. Rajesh Kumar Verma, Dharmendra Prasad Singh, Sunita Kumari and ME Siddique, Department of Microbiology, UPRIMS&R, Saifai, Etawah (UP), India. IJPSR.0975-8232. 7(4). 1780-84.*

" The Dengue IgG Cap-ELISA & IgM Cap-ELISA test has superior intensity of performance over the immunochromatographic tri-line rapid. "

Source: The sensitivity comparison of Immunodiagnostic assays for diagnosing dengue fever. Muhammad Zahoor, Haji Bahadur, Salah Uddin, Sumaira Naz. Korean J Clin Lab Sci. 2016; 48(4):275-279.

ErbaLisa® Dengue ELISA

Early indicators of infection

- Dengue NS1 Ag is the first seromarker that can be detected from **DAY 1** of the infection.
- IgG and IgM can be detected from **DAY 5-7.**
- NS1 and/or IgM Ab indicate recent infection while presence of only IgG antibody is associated with chronic or later stage of dengue.

When tests become postive

Test type: 1gG (1st), 1gG (2nd), IgM, Ns1, Viraemia

Day of sickness: 0 1 2 3 4 5 6 7 8 9

Reliable

Accurate

Affordable

Order your kit now!

Product Code	Product Name	Pack Size
131389	ErbaLisa® Dengue NS1 Ag	96 Tests
132011	ErbaLisa® Dengue IgM μ-Capture	96 Tests
132010	ErbaLisa® Dengue IgG Capture	96 Tests

Imm/29-2017/V1/Dom/Bro

UL REGISTERED FIRM

UKAS QUALITY MANAGEMENT 4426

Efficient Testing with Smart Technology

Combat Dengue early on!

ErbaLisa® Dengue ELISA is a complete portfolio for early, reliable and accurate detection of Dengue seromarkers NS1 Ag, IgG and IgM.

ErbaLisa®
Dengue NS1 Ag

Qualitative ELISA for detection of dengue NS1 Ag.

Shortest assay time of 75 minutes

- Early detection of NS1 Ag by Sandwich ELISA method
- Highest Sensitivity (100%) and Specificity (100%)

ErbaLisa®
Dengue IgM μ-Capture

Qualitative ELISA for detection of dengue IgM.

Trusted μ-Capture method offers greater precision

- Assay time of 120 minutes
- Highest Sensitivity (100%) and Specificity (100%)

ErbaLisa®
Dengue IgG Capture

Qualitative ELISA for detection of dengue IgG.

Trusted Immnocapture method offers greater precision

- Assay time of 120 minutes
- Highest Sensitivity (100%) and Specificity (99.4%)

The ErbaLisa® Advantage

- Simple protocol
- Easy interpretation of results based only on cut-off value
- Breakaway Microwells
- Ready-to-use reagents
- Prolonged shelf life - 18 months at 2-8°C

False Positive Results with Dengue Serological Tests: A Problem

Serological tests can yield false positive results due to cross-reactions with other Flaviviruses (eg. Chikangunya), other pathogens causing fever (e.g. Plasmodium, Leptospira) and immune disorders such as Rheumatoid Arthritis.
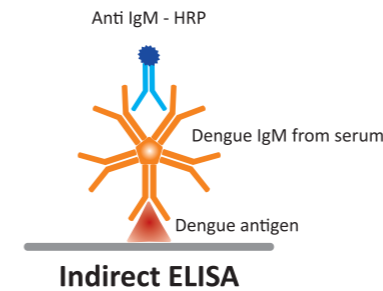
As shown in a WHO evaluation study, the instances of false positive results in which a non-Dengue infected person is diagnosed as positive was as high as 31% in the kits from other manufacturers used in the study.

ErbaLisa Dengue ELISA kits have a documented specificity of 100% for both NS1 and IgM and 99.4% for IgG, which limits the chances of false positive results.
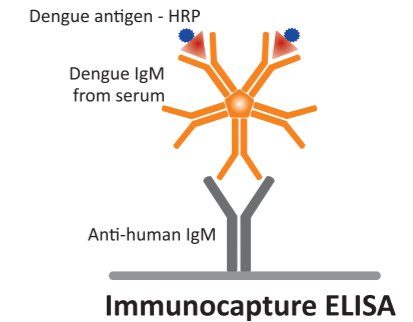
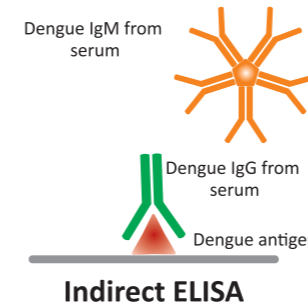# IgM Detection - Immunocapture vs Indirect ELISA

True Reaction

Others

Anti IgM - HRP

Dengue IgM from serum

Dengue antigen

Indirect ELISA

ErbaLisa® Dengue IgM μ-Capture

Dengue antigen - HRP

Dengue IgM from serum

Anti-human IgM

Immunocapture ELISA

Interference of IgG in other kits

Others

Dengue IgM from serum

Dengue IgG from serum

Dengue antigen

Indirect ELISA

Microwells coated with Dengue antigens may cause

FALSE NEGATIVE

ErbaLisa® Dengue IgM μ-Capture

Dengue IgG from serum

Dengue IgM from serum
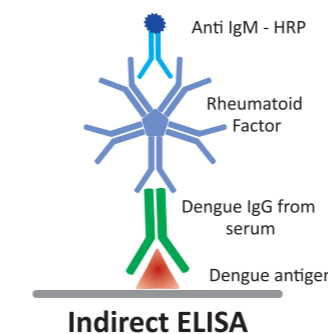
Anti-human IgM

Immunocapture ELISA
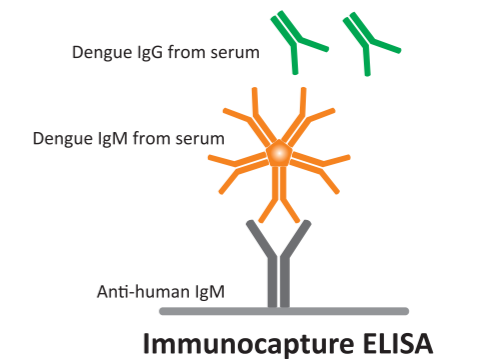
Microwells coated with Anti-human IgM leads to

TRUE POSITIVE

Interference of RF in other kits

Rheumatoid Factor is typically an IgM class antibody that recognizes Fc region of IgG antibodies.

Others

Anti IgM - HRP

Rheumatoid Factor

Dengue IgG from serum

Dengue antigen

Indirect ELISA

Binding of RF to IgG may cause

FALSE POSITIVE

ErbaLisa® Dengue IgM μ-Capture

Dengue antigen - HRP

Rheumatoid Factor

Dengue IgM from serum

Anti-human IgM

Immunocapture ELISA
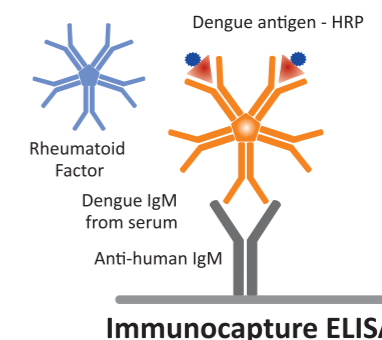
Use of Dengue antigen conjugate leads to

TRUE POSITIVE