



BIOCREDIT

Dengue NS1 Ag & Dengue IgG/IgM

Diagnosis of dengue infection through all stages

About Dengue

- Arthropod-borne disease by *Aedes aegypti*
- No specific antiviral drug
- No protective vaccine
- Early diagnosis is essential to enable good management and prevention of large outbreak

BIOCREDIT Dengue NS1 Ag



DUAL COLOR SYSTEM

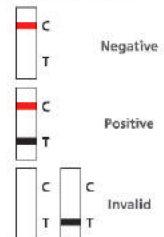


- Intended use : Detection of dengue virus NS1 antigen
- Storage : 1 - 40°C
- Specimen type : Serum, Plasma, Whole blood (30ul)
- Time to result : 20 minutes
- Shelf life : 24months
- Sensitivity : 98.5%
- Specificity : 98.6%

Detecting NS1 Antigen

NS1 Ag is present in high concentration during the first few days of illness and it stays in serum as the infection subsides (up to 14 days)

Interpretation



BIOCREDIT Dengue IgG/IgM



DUAL COLOR SYSTEM

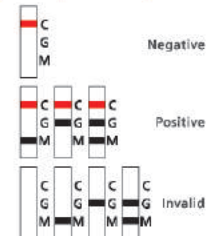


- Intended use : Detection of dengue virus antibodies (IgG&IgM)
- Storage : 1 - 40°C
- Specimen type : Serum, Plasma : (5ul), Whole blood (10ul)
- Time to result : 20 minutes
- Shelf life : 24months
- Sensitivity : Ig G - 98.2% / Ig M - 93.3%
- Specificity : Ig G - 89.5% / Ig M - 91.5%

Detecting IgG/IgM Antibodies

Primary dengue infection typically induces a stronger and more specific IgM response than secondary infections, where the IgM response is low compared to a strong IgG response

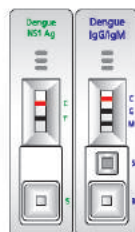
Interpretation



BIOCREDIT Dengue NS1 Ag+Ab Duo



DUAL COLOR SYSTEM

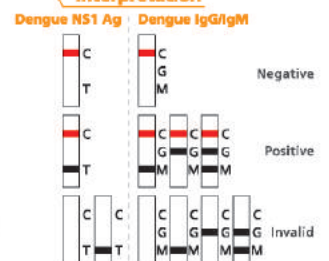


- Intended use : Detection of dengue virus antigen and antibodies
- Storage : 1 - 40°C
- Specimen type :
 - NS1 : Serum, Plasma, Whole blood (30ul)
 - IgG/IgM : Serum, Plasma : (5ul), Whole blood (10ul)
- Time to result : 20 minutes
- Shelf life : 24months

Combination assay : NS1 + Ab

The combined use of NS1 Ag and IgG/IgM Ab assays enables accurate diagnosis of dengue infection

Interpretation

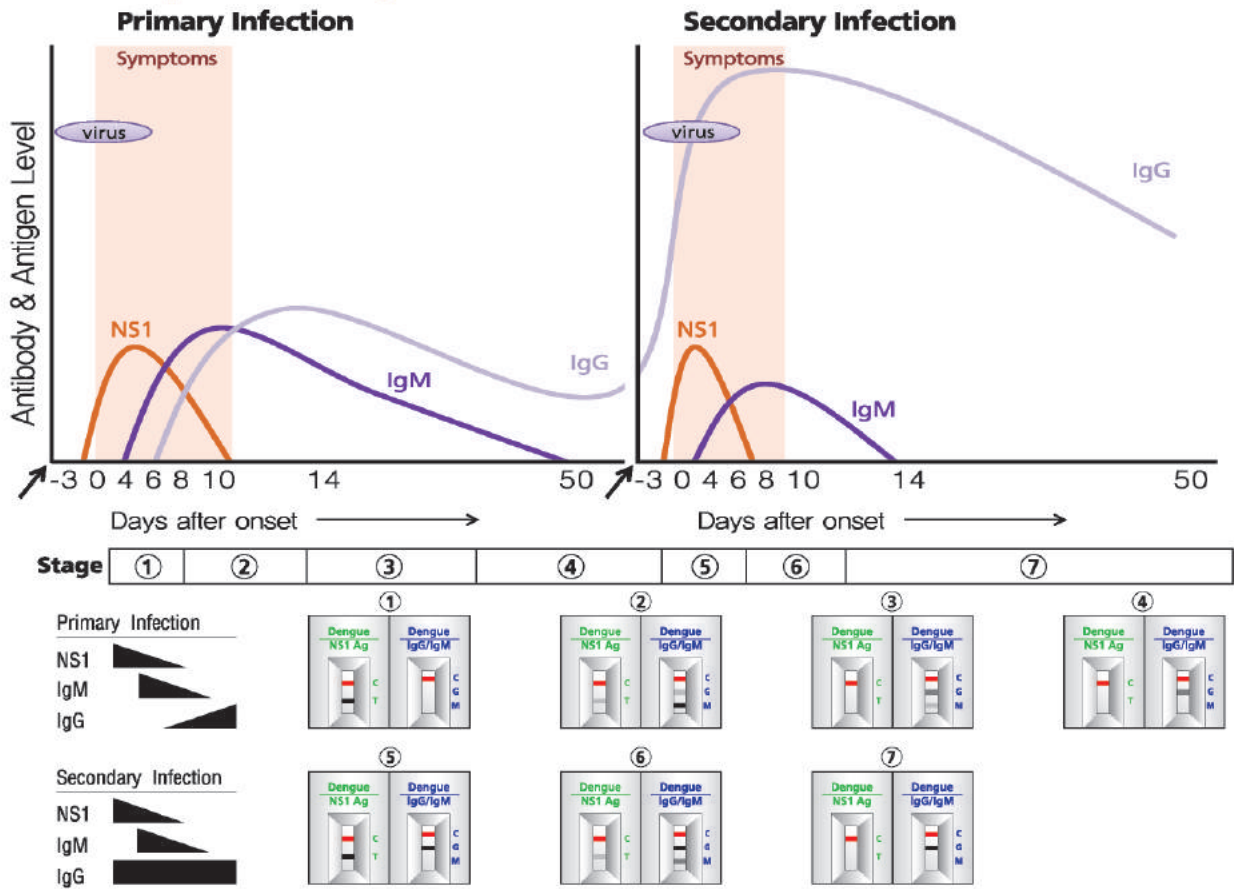


BIOCREDIT

Dengue NS1 Ag & Dengue IgG/IgM

Diagnosis of dengue infection through all stages

Immune response to dengue infection



[Detecting Stages]

- **NS1 Antigen** : For the 9 days after onset of fever. (secreted form or revealed on infected cell surface)
- **Ig M** : From the day 5 until 90 after onset of fever
- **Ig G** : From the day 10~14 after onset of fever

■ Test Procedure

DUO

1

Dengue NS1 Ag

or

2drops

Read result within 20min

00:20:00

1 Add 30ul (serum, plasma or whole blood) of specimen into the sample well using disposal dropper provided or micropipette.

2 Add 2drops of assay diluents into the sample well.

3 Read result within 20minutes.

+

2

Dengue IgG/IgM

or

3-4 drops

Read result within 20min

00:20:00

1 Add 5ul (Serum or plasma) or 10ul (whole blood) of specimen into the sample well using capillary pipette or micropipette.

2 Put 3-4 drops of assay diluents into the buffer well.

3 Read result within 20minutes.

■ Compared to Reference Assay

Dengue NS1 Ag

Reference assay (RT-PCR)	Dengue NS1 Ag		Total	Sensitivity	Specificity
	Positive	Negative			
Positive	133	2	135	98.5 %	98.6%
Negative	2	148	150		
Total	135	150	285		

Dengue IgG / IgM

Reference assay (ELISA)	Dengue IgG/IgM		Total	Sensitivity	Specificity	
	Positive	Negative				
IgG	Positive	56	1	57	98.2 %	89.5 %
	Negative	11	94	105		
Total	67	95	162			
IgM	Positive	28	2	30	93.3 %	91.5 %
	Equivocal*	3	0	3		
	Negative	11	118	129		
Total	42	120	162			