



## Reagents and supplies for Zika IgM ELISA

### **Coating buffer:**

Carbonate/bicarbonate buffer pH 9.6  
1.59g Na<sub>2</sub>CO<sub>3</sub> + 2.93g NaHCO<sub>3</sub> diluted in 1L water

### **Wash buffer:**

Phosphate buffered saline (PBS), 0.05% Tween 20, pH 7.2  
PBS is available in powdered form from multiple commercial sources

### **Blocking buffer:**

PBS/5% milk/ 0.5% Tween 20

### **Coating antibody:**

Goat anti-human IgM  
Kirkegaard and Perry Laboratories cat# 01-10-03

### **Positive control:**

6B6C-1 huIgM chimera (CDC) or Zika IgM-positive serum

### **Negative control:**

Known virus-negative serum

### **Viral antigen:**

Sucrose-acetone extracted suckling mouse brain viral antigens, gamma-irradiated tissue culture antigen, non-infectious, previously titrated, or COS-1 antigen (non-infectious) (CDC)

### **Normal antigen:**

Sucrose-acetone extracted suckling mouse brain antigen, tissue culture antigen, or normal COS-1 antigen (CDC)

### **Detecting antibody conjugate:**

Horseradish peroxidase conjugated monoclonal antibody 6B6C-1 (commercially available from Hennessy Research and InBios. Note: the Hennessy detecting antibody conjugate cannot be used with COS-1 antigens)\*.

### **Substrate:**

3,3',5,5' tetramethylbenzidine base (Enhanced K-Blue TMB substrate), Neogen Corp. Cat# 308175

### **Stop solution:**

1 N H<sub>2</sub>SO<sub>4</sub> (50 µl/well)

### **Plates:**

Immulon 2 HB flat-bottomed 96 well plates  
Dynatech Technologies cat# 3455

Microplate washer

Microplate reader with 450 nm filter

Refrigerator  
Incubator (37C)  
Single and multi-channel pipettors  
Reagent reservoirs  
Ziploc bags, paper towels

\*For updated information regarding conjugates, please refer to LRN guidance.