

Bioassayplus Inc.

4510 Rhodes Dr, Windsor, Canada N8W 5K5

Certificate of Analysis

Important Note: centrifuge before opening to ensure complete recovery of vial contents.

Product name: Recombinant Zika envelope protein

Catalog #: zika-env III

Description: Zika virus is a member of genus Flavivirus, it is transmitted by *Aedes* mosquitoes, the same *Aedes* mosquitoes are also the carrier and the transmitter of dengue virus. *Aedes* mosquitoes distribute in tropical and subtropical regions throughout the world. Till Jan 2016, there are over 1.6 million Zika virus infection case reports from South America, but it is estimated that there are over 5 million people with Zika virus infection in Brazil due to unknown infection, over five thousand new babies have been borne with microcephaly, in the infected adults, Zika disease may develop neurologic damage with the symptoms of Guillain–Barré syndrome.

Protein structure: Zika virus envelope protein is partially derived from zika envelope containing domain III, in house prepared Zika IgG/IgM lateral flow rapid test showed no cross-reaction with dengue IgG and IgM, and the design of these protein is specially used for the development of rapid test product or ELISA test, A 6 x histidine tag attached to its C-terminal.

Source: *E. coli*

Format: Purified, Liquid

Molecular weight: 19kDa

Purity: >95% pure (SDS-PAGE, Coomassie blue staining).

Concentration: 1.65mg/ml (lot: 10/2018)

Buffer: 25mM Tris-Cl with 25mM K₂CO₃

Storage: store in 4°C for short time only, aliquot to avoid repeated freezing and thawing, store at -20°C.

Applications: Rapid test and immunoassay



SDS-PAGE
0302-2023