ALPHA DIAGNOSTIC INTERNATIONAL

Product Data Sheet

Cat # RP-1602 Recombinant (E. coli) Dengue Virus Type 1+4, 2, and 3 **Size**: 50 ug

Dengue fever is caused by one of four closely related virus serotypes of the genus Flavivirus, family Flaviviridae, patient may have the second dengue fever infected by the different serotype virus after the primary infection. Detection of specific antibodies to dengue viruses has been used for the diagnosis in clinic. Recently, rapid test has become a most convenient and popular method in the clinical diagnosis. However, there is great difficulty for the manufacturers to have the dengue antigens with the good binding ability to colloid gold, production of strong signal / low background and detection of all four serotype dengue infections for their dengue rapid test development and production.

SOURCE:

Polyvalent dengue antigen for gold conjugation and rapid test production. This polyvalent dengue antigen contain 3 recombinant dengue envelope proteins, representing all four serotypes, one of them is a fusion protein composed by two different serotypes. All the proteins are derived from the envelope. The recombinant proteins for subtype 2 and 3 are 33kDa and 37kDa, respectively, while the size for the fused subtype 1 and 4 envelope protein is about 48kDa in total. Each of these proteins will be supplied individually, individual gold conjugation for each supplied protein and mixture of them together are highly recommended for the rapid test production. 12mM sodium chloride-phosphorous buffer, pH-7.5.

APPLICATION AND SUGGESTED DILUTIONS:

Protein is >95% pure as determined by 10% PAGE (coomassie staining). Users must optimize the appropriate concentration and conditions for each assay.

STORAGE & STABILITY:

Protein is shipped at ambient temperature. Upon arrival, Store at -20℃. Five years frozen. One month in solution at room temperature.

If supplied in powder then reconstitute it in 100ul water for 1mg/mL stock and store in liquid at 4oC for ~ 1week or aliquots in suitable size and store at -20oC for long term storage..

USAGE:

This item is for LABORATORY RESEARCH USE ONLY.

RP-1602 120507P

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