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H1N1 Influenza-A Virus New Caledonia/20/99 IVR 116
VIRAL ANTIGEN

Catalog Number: PRP-003
Quantity: 10 micrograms, 50 micrograms, 1 milligram
Format: Sterile-filtered colorless solution
Host: *Embryonated egg allantoic fluid*

Background:

H1N1 is a subtype species of influenza A virus. H1N1 influenza virus has mutated into various strains such as the Spanish flu strain, mild human flu strains, endemic pig strains, and various strains found in birds. The influenza A virus is a globular particle about 100 nm in diameter, sheathed in a lipid bilayer derived from the plasma membrane of its host. Studded in the lipid bilayer are two integral membrane proteins some 500 molecules of hemagglutinin ("H") and some 100 molecules of neuraminidase ("N"). Within the lipid bilayer are 3000 molecules of matrix protein and 8 pieces of RNA. Each of the 8 RNA molecules is associated with many copies of a nucleoprotein, several molecules of the three subunits of its RNA polymerase some "non-structural" protein molecules of uncertain function.

Specificity and Preparation:

Allantoic fluid of 10 days old embryonated eggs, inoculated with influenza A virus, strain A/ New Caledonia/20/99 IVR 116. The influenza virus was purified by ultracentrifugation with 10-40% sucrose gradient. Purity is greater than 90.0% as determined by SDS-PAGE. The solution contains STE, 0.1 % sodium azide (NaN₃) and 0.005 % thimerosal.

Immunological Activity: Tested with anti-influenza A monoclonal antibodies in ELISA. Serological studies of influenza A virus, immunogen for antibody production.

Usage and Storage:

Although stable 4°C for 4 weeks, product should be stored desiccated below -18°C. Avoid repeated freezing and thawing. Gently spin down material before use; 5-10 seconds in a microfuge should be adequate. Inactivation: Thimerosal and beta propiolactone treatment. This product has been treated in a manner consistent with methods of inactivation. Generally accepted good laboratory practices appropriate to microbiological/viral safe handling practices and techniques are required at work.

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