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Certificate of Analysis and Data Sheet

Recombinant Influenza B Virus Hemagglutinin, Ohio 01/05

Catalog No.
228-11170

Source:
Baculovirus Insect Cells

Introduction

Influenza-B virus is a genus in the virus family Orthomyxoviridae. The only species in this genus is called "Influenza B virus". Influenza B virus only infects humans and seals. This limited host range is apparently in contrast with those caused by the similar Influenza virus A as both mutate by both genetic drift and reassortment. Influenza-B virus evolves slower than A viruses and faster than C viruses. Influenza-B virus mutates at a rate 2-3 times lower than type A. However, influenza B mutates enough that lasting immunity is not possible. The Influenza B virus capsid is enveloped while its virion consists of a matrix protein + envelope + nucleoprotein complex + nucleocapsid, and a polymerase complex. Influenza B is sometimes spherical and sometimes filamentous. Its 500 or so surface projections are made of hemagglutinin and neuraminidase.
The Influenza B virus is 14648 nucleotides long and consists of eight segments of linear negative-sense, single-stranded RNA. The multipartite genome is encapsidated, each segment in a separate nucleocapsid, and the nucleocapsids are surrounded by one envelope.

Description

Recombinant Full-Length B/Ohio/01/05 is glycosylated with N-linked sugars, produced using baculovirus vectors in insect cells.

Physical Appearance

Sterile Filtered colorless solution.

Formulation

The Recombinant B/Ohio/01/05 solution contains 30mM Sodium phosphate, pH 7.4 and 50mM NaCl.

Stability

B/Ohio/01/05 Recombinant should be stored at 4°C.

Immunological Activity

Western-Blot 0.1µg -1µg per strip, ELISA 1µg/Well.

Purity

Greater than 90.0% as determined by SDS-PAGE.