

Product Data Sheet

Cat # RP-1526

Influenza B Virus Qingdao 102/91 (purified virus, inactivated)

**Size:** 10 ug

Influenzavirus B 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:**

Allantoic fluid of 10 days old embryonated eggs, inoculated with influenza B virus, strain B/Tokio/53/99. The Influenza B Virus was purified (>90%) by Ultracentrifugation with 10-40 % sucrose gradient and inactivated.

**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.

**Form and Storage**

It is supplied as Sterile Filtered colorless solution. The solution contains 0.1M NaCl, 10mM Tris HCl, 1mM EDTA pH-8, 0.1 % sodium azide (NaN<sub>3</sub>) and 0.005 % thimerosal. It is stable at 4°C for 4 weeks, should be stored desiccated below -18°C.  
Please prevent freeze-thaw cycles

**Suggested Applications**

Serological studies of influenza B virus, immunogen for antibody production. Tested with anti-influenza B monoclonal antibodies in ELISA.

This item is for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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