

Native Influenza B [B/Massachusetts/2/12] Viral Lysate

Cat. No. INF-462 Lot. No. (See product label)

SPECIFICATION

Product Overview

Influenza B (B/Massachusetts/2/12) viral lysate is an enveloped virus with a diameter of 80-120 nm, and contains a single-stranded, segmented, negative-sense RNA within a nucleocapsid. Influenza Virus is a Biosafety Level 2 organism. Viral inactivation of this product is verified for every lot of lysate by the absence of viral growth in validated tissue culture based infectivity assays.

Background

The influenza B virus is the only species of virus in the genus *Betafluzevirus* within the family *Orthomyxoviridae*. Influenza B viruses have linear, negative-sense, single-stranded multipartite RNA genomes. The Influenza B virus capsid is enveloped and its virion comprises an envelope protein, matrix protein, nucleoprotein complex, a nucleocapsid, and polymerase complex. Influenza viruses are highly pleomorphic, with 500 or so surface projections of Hemagglutinin (HA) and Neuraminidase (NA). Unlike influenza A viruses, influenza B viruses are limited to infecting only humans and seals (Osterhaus et al., 2000) and can be divided into the two B/Yamagata/16/88-like and B/Victoria/2/87 lineages according to the antigenic properties of their Haemagglutinin surface proteins. The limited host range of influenza B viruses and their inability to genetically reassort is responsible for the lack of associated influenza pandemics in contrast with those caused by related influenza A viruses that mutate by both antigenic drift and shift. The variability of the type B viruses, however, is also characterised by other mechanisms such as insertion and deletion, as the influenza B lines show which have been co-circulating and stable for more than 20 years (Untergruppe, 2009). The Massachusetts/2/2012 strain of influenza B virus was first isolated in 2012 in the state of Massachusetts, USA (Influenza Research Database).

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Applications	Suitable for the development of immunoassays, Western blotting, dot blotting and other protein-based assays.
Notes	This product is intended for research and manufacturing uses only. It is not a diagnostic device. The user assumes all responsibility for care, custody and control of the material, including its disposal, in accordance with all regulations.
Type	Native
ClassID 1	Infectious Disease
GENE INFORMATION	
Synonyms	Influenza B [B/Massachusetts/2/12] Viral Lysate

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