

Influenza B Nucleoprotein ELISA Kit

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CATALOG #
AAA44708

REACTIVITY
Influenza B

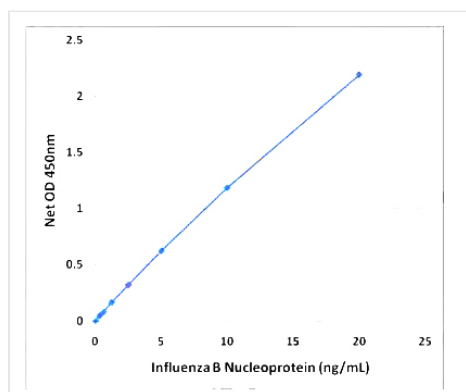
PRODUCT SYNONYMS

Influenza B Nucleoprotein; Influenza B Nucleoprotein ELISA Kit; Influenza B Nucleoprotein elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Influenza B
Detection Method	Colorimetric

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for Influenza B Nucleoprotein elisa kit

Background: The influenza virus is an enveloped virus that can be divided into three classes, A, B, and C, largely based upon conserved antigenic differences in the internal nucleoprotein (NP). Only Influenza A and B are clinically relevant for humans. The primary function of NP is to encapsidate the segmented RNA and bind with the three polymerase subunits, PA, PB1 and PB2, to form ribonucleoprotein particles (RNPs) for RNA transcription, replication and packaging. The Influenza B Nucleoprotein ELISA Kit is an enzyme immunoassay developed for detection and quantitation of the Influenza B nucleoprotein. The ELISA antibodies only recognize the nucleoprotein from Influenza B, will not react with the nucleoprotein from Influenza A nor Influenza C. The kit has a detection sensitivity limit of 313 pg /mL Influenza B nucleoprotein. Each kit provides sufficient reagents to perform up to 96 assays including standard curve and Influenza B lysate samples.

Principle of the Assay: An anti-Influenza B nucleoprotein monoclonal antibody is adsorbed onto a microtiter plate. Influenza B nucleoprotein present in the sample or standard binds to the antibody adsorbed on the plate; an FITC-conjugated anti-Influenza B nucleoprotein monoclonal antibody is added and binds to the Influenza B nucleoprotein captured by the first antibody. Following incubation and wash steps, an HRP-conjugated mouse anti-FITC antibody is added and binds to the FITC conjugated anti-Influenza B nucleoprotein monoclonal antibody. Unbound HRP-conjugated mouse anti-FITC antibody is removed during a wash step, and a substrate solution reactive with HRP is added to the wells. A colored product is formed in proportion to the amount of Influenza B nucleoprotein present in the sample. The reaction is terminated by addition of Stop Solution and absorbance is measured at 450 nm. A standard curve is prepared from the provided recombinant Influenza B nucleoprotein standard, and sample Influenza B nucleoprotein concentration is then determined.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/elisa-kits/influenza-b-nucleoprotein/44708>