

Resource Summary Report

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Peroxidase-linked lectin assay to determine neuraminidase-inhibiting antibodies using reassortant influenza viruses

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Protocol Information

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Summary: The NA inhibition test using large molecular fetuin substrate is believed to be the most specific method to detect antibodies against influenza virus neuraminidase. To avoid cross-reacting with hemagglutination-inhibition antibodies we have prepared several reassortant A/H7N1 viruses containing the NA of A/California/07/09(H1N1)pdm, ??/New Caledonia/20/1999(H1N1) or A/Vietnam/1203/04(H5N1), and the hemagglutinin derived from A/equine/Prague/1/56(H7N7) influenza virus. Adjustment and validation of the NI test with the reassortant viruses included the determination of the viruses working concentration and selection of optimal conditions for the enzymatic reaction.

Associated Publications: Desheva Y, Sychev I, Smolonogina T, Rekstin A, Ilyushina N, Lugovtsev V, Samsonova A, Go A, Lerner A (2018) Anti-neuraminidase antibodies against pandemic A/H1N1 influenza viruses in healthy and influenza-infected individuals. PLoS ONE 13(5): e0196771. doi: [10.1371/journal.pone.0196771](https://doi.org/10.1371/journal.pone.0196771)

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