

Polyclonal Anti-Influenza Virus N8 (Neq2) Neuraminidase (NA), A/equine/Miami/1/63 (H3N8), (antiserum, Goat)

Catalog No. NR-3145

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Lot (NIAID Catalog) No. V-310-571-157

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Contributor:

National Institutes of Allergy and Infectious Diseases (NIAID),
National Institutes of Health (NIH)

Product Description:

Reagent: Polyclonal antiserum

Host: Goat

Immunizing Antigen: Influenza Virus N8 (Neq2)

Neuraminidase (NA), A/equine/Miami/1/63 (H3N8)

Adjuvant: Freund's Complete Adjuvant

Material Provided/Storage:

Content: Freeze-dried serum

Original Volume: 1.0 mL

Storage Temperature: 4°C

Functional Activity:

Neuraminidase Inhibition (NI):

Conditions: Neuraminidase (NA) activity was assayed by the method of Warren¹, except that the color was extracted into *n*-butanol containing 5% (v/v) concentrated hydrochloric acid.² NI tests were performed as described.³ To preclude steric inhibition in the NI tests, an antigenic hybrid possessing an irrelevant hemagglutinin (HA) subunit was used.

Titer to Isolated Subunits (old nomenclature in parentheses):

H3N8 (Heq2Neq2) from A/equine/Miami/1/63: 1:1000

H1N1 (H0N1) from A/New Jersey/8/76: < 1:20

H2N2 (N2) from A/Singapore/1/57: < 1:20

H7N7 (Heq1Neq1) from A/equine/Prague/1/56: < 1:20

H11N6 (Hav3Nav1) from A/duck/England/56: < 1:20

H5N3 (Hav5Nav2) from A/tern/South Africa/61: < 1:20

H8N4 (Hav8Nav4) from A/turkey/Ontario/6118/68: < 1:20

Double Immunodiffusion:

Conditions: Hyland double immunodiffusion plates after disruption of purified virus with SDS⁴

Positive Reaction:

N8 (Neq2)

Trace Reaction:

Ribonucleoprotein (RNP)

Cross Reaction:

Unrelated HA (H0) antigen

Single Radial Diffusion:

Negative Reaction:

Matrix protein

Citation:

Acknowledgment for publications should read "The following reagent was obtained through the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH: Polyclonal Anti-Influenza Virus N8 (Neq2) Neuraminidase (NA), A/equine/Miami/1/63 (H3N8), (antiserum, Goat), NR-3145."

Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 5th ed. Washington, DC: U.S. Government Printing Office, 2007; see www.cdc.gov/od/ohs/biosfty/bmbl5/bmbl5toc.htm.

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References:

1. Warren, L. "The Thiobarbituric Acid Assay of Sialic Acids." *J. Biol. Chem.* 234 (1959): 1971–1975. PubMed: 13672998.
2. Aminoff, D. "Methods for the Quantitative Estimation of N-acetylneuraminic Acid and their Application to Hydrolysates of Sialomucoids." *Biochem. J.* 81 (1961): 384–392. PubMed: 13860975.
3. Webster, R. G. and H. G. Pereira. "A Common Surface Antigen in Influenza Viruses from Human and Avian Sources." *J. Gen. Virol.* 3 (1968): 201–208. PubMed: 5698682.
4. Schild, G. C. and H. G. Pereira. "Characterization of the Ribonucleoprotein and Neuraminidase of Influenza A Viruses by Immunodiffusion." *J. Gen. Virol.* 4 (1969): 355–363. PubMed: 4977660.

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