Product Information Sheet for NR-3137

Polyclonal Anti-Influenza Virus N2 Neuraminidase (NA), A/Singapore/1/57 (H2N2), (antiserum, Goat)

Catalog No. NR-3137

This reagent is the property of the U.S. Government.

Lot (NIAID Catalog) No. V-308-541-157

For research use only. Not for human use.

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 N2 Neuraminidase (NA), A/Singapore/1/57 (H2N2)
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 Warren[1], 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):
  - H2N2 (N2) from A/Singapore/1/57: 1:2000
  - H1N1 (H0N1) from A/New Jersey/8/76: < 1:20
  - H7N7 (Heq1Neq1) from A/equine/Prague/1/56: < 1:20
  - H3N8 (Heq2Neq2) from A/quine/Miami/1/63: < 1:20
  - H11N6 (Hav3Nav1) from A/duck/England/56: < 1:20
  - H5N3 (Hav5Nav2) from A/tern/South Africa/61: < 1:20
  - H8N5 (Hav8Nav4) from A/turkey/Ontario/6118/68: < 1:20

Double Immunodiffusion:
- Conditions: Hyland double immunodiffusion plates after disruption of purified virus with SDS[4]
- Positive Reaction:
  - N2
- Negative Reaction:
  - Ribonucleoprotein (RNP)

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 N2 Neuraminidase (NA), A/Singapore/1/57 (H2N2), (antiserum, Goat), NR-3137."

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.

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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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