

Product Information Sheet for NR-22240

Human Metapneumovirus, TN/93-32

Catalog No. NR-22240

For research use only. Not for use in humans.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Virus Classification: Paramyxoviridae, Pneumovirinae, Metapneumovirus

Species: Human metapneumovirus

Strain/Isolate: TN/93-32

Original Source: Human metapneumovirus (HMPV), TN/93-32 was isolated in 1993 from a human specimen collected in Tennessee, USA.1,2

Comments: Additional information for HMPV TN/93-32 is available at the Virus Pathogen Resource. The complete genome of the TN/93-32 isolate has been sequenced (GenBank: KC562223).

Human metapneumovirus was first isolated from young children with acute respiratory tract disease in the Netherlands in 2001, and subsequently recognized as a major cause of respiratory illness in infants and children worldwide.3,4 Retrospective serological analyses indicated that the virus had been circulating in humans for at least half a century. Two serotypes of HMPV have been defined, with two genetic lineages within each serotype.5 TN/93-32 is classified as a type B2 virus.2,6

Material Provided:

Each vial contains approximately 1 mL of cell lysate and supernatant from Macaca mulatta kidney epithelial cells (LLC-MK2 Derivative; ATCC® CCL-7.1™) infected with HMPV,

Note: If homogeneity is required for your intended use, please purify prior to initiating work.

Packaging/Storage:

NR-22240 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen and should be stored at -60°C or colder immediately upon arrival. For long-term storage, the vapor phase of a liquid nitrogen freezer is recommended. Freeze-thaw cycles should be avoided.

Growth Conditions:

and 5 µg per mL trypsin

Host: LLC-MK2 Derivative cells (ATCC® CCL-7.1™) Growth Medium: Opti-MEM® Minimal Essential Medium supplemented with 2 mM L-glutamine, 100 µg per mL CaCl₂,

Infection: Cells should be 40% to 90% confluent

Incubation: 6 to 14 days at 37°C and 5% CO₂

Cytopathic Effect: Rounding, sloughing and syncytia

formation.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Human Metapneumovirus, TN/93-32, NR-22240."

Biosafety Level: 2

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. 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

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References:

- Williams, J. V., Personal Communication.
- 2. Yang, C. F., et al. "Human Metapneumovirus G Protein is Highly Conserved within but not between Genetic

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- van den Hoogen, B. G., et al. "A Newly Discovered Human Pneumovirus Isolated from Young Children with Respiratory Tract Disease." <u>Nat. Med.</u> 7 (2001): 719-724. PubMed: 11385510.
- Williams, J. V. "Human Metapneumovirus: An Important Cause of Respiratory Disease in Children and Adults." <u>Curr. Infect. Dis. Rep.</u> 7 (2005): 204-210. PubMed: 15847723.
- van den Hoogen, B. G., et al. "Antigenic and Genetic Variability of Human Metapneumoviruses." <u>Emerg. Infect.</u> Dis. 10 (2004): 658-666. PubMed: 15200856.
- Yang, C. F., et al. "Genetic Diversity and Evolution of Human Metapneumovirus Fusion Protein Over Twenty Years." <u>Virol. J.</u> 6 (2009): 138. PubMed: 19740442.

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