

# **Product Information Sheet for NR-22232**

## **Human Metapneumovirus, TN/91-316**

# Catalog No. NR-22232

## For research use only. Not for use in humans.

#### **Contributor:**

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#### Manufacturer:

**BEI Resources** 

### **Product Description:**

Note: The organism name on the vial label for lot 70040318 is incorrect. The correct name is human metapneumovirus.

Virus Classification: Pneumoviridae, Metapneumovirus

Species: Human metapneumovirus

Strain/Isolate: TN/91-316

<u>Original Source</u>: Human metapneumovirus (HMPV), TN/91-316 was isolated in 1991 from a human specimen collected in Tennessee, USA.<sup>1,2</sup>

<u>Comments</u>: Additional information for HMPV, TN/91-316 is available at the <u>Virus Pathogen Resource</u>. The complete genome of the TN/91-316 isolate has been sequenced (GenBank: <u>KC403971</u>).

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.<sup>3,4</sup> 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.<sup>5</sup> TN/91-316 is classified as a type B2 virus.<sup>5</sup>

#### **Material Provided:**

Each vial contains approximately 1 mL of cell lysate and supernatant from *Macaca mulatta* kidney epithelial cells (LLC-MK2 Derivative; ATCC<sup>®</sup> CCL-7.1™) infected with HMPV, TN/91-316.

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

## Packaging/Storage:

NR-22232 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:**

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 CaCl<sub>2</sub> and 5 μg per mL trypsin

<u>Infection</u>: Cells should be 70% to 80% confluent <u>Incubation</u>: 3 to 13 days at 37°C and 5% CO<sub>2</sub>

<u>Cytopathic Effect</u>: <u>Rounding</u> and dissociation from the monolayer

# Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Human Metapneumovirus, TN/91-316, NR-22232."

## **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 <a href="https://www.cdc.gov/biosafety/publications/bmbl5/index.htm">www.cdc.gov/biosafety/publications/bmbl5/index.htm</a>.

#### **Disclaimers:**

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#### References:

- 1. Williams, J. V., Personal Communication.
- Yang, C. F., et al. "Human Metapneumovirus G Protein is Highly Conserved within but not between Genetic Lineages." <u>Arch. Virol.</u> 158 (2013): 1245-1252. PubMed: 23385328.
- 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> <u>Dis.</u> 10 (2004): 658-666. PubMed: 15200856.

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