

# **Product Information Sheet for NR-22243**

## **Human Metapneumovirus, TN/96-213**

# Catalog No. NR-22243

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

#### Contributor:

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#### Manufacturer:

**BEI Resources** 

### **Product Description:**

<u>Virus Classification</u>: Paramyxoviridae, Pneumovirinae, Metapneumovirus

Species: Human metapneumovirus

Strain/Isolate: TN/96-213

Original Source: Human metapneumovirus (HMPV), TN/96-213 was isolated from a human specimen collected in Tennessee, USA, in 1996.<sup>1,2</sup>

<u>Comments</u>: Additional information for HMPV TN/96-213 is available at the <u>Bacterial and Viral Bioinformatics Resource</u>
<u>Center</u>. The complete genome of the TN/96-213 isolate has been sequenced (GenBank: <u>KC562229</u>). HMPV, TN/96-213 is classified as a type B2 virus.<sup>2</sup>

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>

## **Material Provided:**

Each vial contains approximately 1.0 mL of cell lysate and supernatant from LLC-MK2 derivative cells infected with HMPV, TN/96-213.

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

## Packaging/Storage:

NR-22243 was packaged aseptically in 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:**

<u>Host</u>: *Macaca mulatta* kidney cells (LLC-MK2 Derivative; ATCC $^{\otimes}$  CCL-7.1 $^{\text{TM}}$ )

Growth Medium: Opti-MEM<sup>®</sup> Minimal Essential Medium supplemented with 2 mM L-glutamine, 100 μg per mL CaCl<sub>2</sub>, and 5 μg per mL trypsin

Infection: Cells should be 70% to 90% confluent Incubation: 6 to 12 days at 37°C and 5% CO<sub>2</sub>
Cytopathic Effect: Rounding and sloughing

## Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Human Metapneumovirus, TN/96-213, NR-22243."

# 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 (BMBL). 6th ed. Washington, DC: U.S. Government Printing Office, 2020.

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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.
- 5. van den Hoogen, B. G., et al. "Antigenic and Genetic Variability of Human Metapneumoviruses." <u>Emerg. Infect. Dis.</u> 10 (2004): 658-666. PubMed: 15200856.

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