SUPPORTING INFECTIOUS DISEASE RESEARCH

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* <u>Species</u>: Human metapneumovirus

Strain/Isolate: TN/96-213

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

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

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[®] CCL-7.1[™]) <u>Growth Medium</u>: Opti-MEM[®] Minimal Essential Medium supplemented with 2 mM L-glutamine, 100 μg per mL CaCl₂, and 5 μg per mL trypsin <u>Infection</u>: Cells should be 70% to 90% confluent <u>Incubation</u>: 6 to 12 days at 37°C and 5% CO₂ 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. <u>Biosafety in Microbiological and Biomedical Laboratories (BMBL)</u>. 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.</u> <u>Infect. Dis.</u> 10 (2004): 658-666. PubMed: 15200856.

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