Product Information Sheet for NR-48680

Human Parainfluenza Virus Type 1, HPIV1/FRA/29221106/2009

Catalog No. NR-48680

For research use only. Not for use in humans.

Contributor:
Kelly J. Henrickson, M.D., Professor, Departments of Pediatrics and Microbiology, Medical College of Wisconsin, Milwaukee, Wisconsin, USA

Manufacturer:
BEI Resources

Product Description:
Virus Classification: *Paramyxoviridae*, *Respirovirus, Respirovirus laryngotracheitidis*
Species: Human parainfluenza virus type 1 (also referred to as human respirovirus type 1)
Strain/Isolate: HPIV1/FRA/29221106/2009
Original Source: Human parainfluenza virus type 1 (HPIV1), HPIV1/FRA/29221106/2009 was isolated from the nasal cavity of a human in Caen, France, on May 25, 2009.[1,2] The strain was obtained by Dr. Henrickson from Professor Astrid Vabret of the Laboratory of Virology, University Hospital of Caen, France.
Comments: The complete genome of HPIV1, HPIV1/FRA/29221106/2009 has been sequenced (GenBank: KF687313).[2]

HPIV1 causes upper and lower respiratory tract infections in infants, young children and the elderly. The virus also causes more severe disease in immunocompromised individuals and those with chronic medical conditions. HPIV1 is one of four distinct HPIV serotypes, all of which are enveloped, negative single-stranded RNA viruses belonging to the family *Paramyxoviridae*.[3,4]

Material Provided:
Each vial contains approximately 1.0 mL of *Macaca mulatta* kidney epithelial cells (LLC-MK2 derivative; ATCC® CCL-7.1™) infected with HPIV1, HPIV1/FRA/29221106/2009.

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

Packaging/Storage:
NR-48680 was packaged aseptically in 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: *Macaca mulatta* kidney epithelial cells (LLC-MK2 derivative; ATCC® CCL-7.1™)
Growth Medium: Dulbecco's Modified Eagle's Medium containing 4 mM L-glutamine, 4500 milligrams per liter glucose, 1 mM sodium pyruvate, and 1500 milligrams per liter sodium bicarbonate, supplemented with 4 micrograms per milliliter trypsin
Infection: Cells should be 60% to 70% confluent
Incubation: 6 to 10 days at 37°C and 5% CO_2
Cytopathic Effect: Cell rounding and sloughing

Citation:
Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Human Parainfluenza Virus Type 1, HPIV1/FRA/29221106/2009, NR-48680."

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). Current Edition. Washington, DC: U.S. Government Printing Office.

Disclaimers:
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References:

1. Henrickson, K., Personal Communication.
2. Lorenzi, H., et al. J. Craig Venter Institute, Rockville, MD, USA. Direct Submission.
3. Beck, E. T., et al. "Genome Sequencing and Phylogenetic Analysis of 39 Human Parainfluenza Virus Type 1 Strains Isolated from 1997-2010." PLoS One 7 (2012): e46048. PubMed: 23029382.
4. Henrickson, K. J. "Parainfluenza Viruses." Clin. Microbiol. Rev. 16 (2003): 242-264. PubMed: 12692097.

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www.beiresources.org

E-mail: contact@beiresources.org
Tel: 800-359-7370
Fax: 703-365-2898