Human Respiratory Syncytial Virus, A/Homo sapiens/ARG/177/2006

Catalog No. NR-48671

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: Pneumoviridae, Orthopneumovirus
Species: Human respiratory syncytial virus
Original Source: Human respiratory syncytial virus (RSV), A/Homo sapiens/ARG/177/2006 was isolated from the nasal cavity of a human in Buenos Aires, Argentina on June 6, 2006. The strain was obtained by Dr. Henrickson from Cristina Videla of the Clinical Virology Laboratory, Centro de Educación Médica e Investigaciones Clínicas, University Hospital, Buenos Aires, Argentina.

Comments: RSV, A/Homo sapiens/ARG/177/2006 is a clade GA5 virus. The complete genome of RSV, A/Homo sapiens/ARG/177/2006 strain has been sequenced (GenBank: KF826838). RSV is an enveloped, negative-sense, non-segmented, single-stranded RNA virus first isolated in 1955 from chimpanzees suffering from respiratory illness. RSV is a major pathogen in children causing severe lower respiratory tract disease in infants and young children. RSV can also infect adults causing severe illness in the elderly. RSV genome contains 10 genes encoding for 11 proteins including G and F surface glycoproteins with important roles in entry. RSV is divided into two distinct subtypes, A and B, with each divided into multiple genotypes. Most genetic studies in RSV are focused on G glycoprotein which is the most variable structural protein among RSV isolates.

Material Provided:
Each vial contains approximately 1 mL of cell lysate and supernatant from HEp-2 cells infected with human respiratory syncytial virus, A/Homo sapiens/ARG/177/2006.

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

Packaging/Storage:
NR-48671 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: HEp-2 cells (ATCC® CCL-23™)
Growth Medium: Eagle’s Minimum Essential Medium containing Earle’s Balanced Salt Solution, non-essential amino acids, 2 mM L-glutamine, 1 mM sodium pyruvate and 1500 mg/L of sodium bicarbonate supplemented with 2% fetal bovine serum, or equivalent
Infection: Cells should be 60% to 95% confluent
Incubation: 3 to 7 days at 37°C and 5% CO2
Cytopathic Effect: Cell rounding, syncytia formation, and detachment

Citation:
Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Human Respiratory Syncytial Virus, A/Homo sapiens/ARG/177/2006, NR-48671."

Biosafety Level: 2

Disclaimers:
You are authorized to use this product for research use only. It is not intended for human use.

Use of this product is subject to the terms and conditions of the BEI Resources Material Transfer Agreement (MTA). The MTA is available on our Web site at www.beiresources.org.

While BEI Resources uses reasonable efforts to include accurate and up-to-date information on this product sheet, neither ATCC® nor the U.S. Government makes any warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. Neither ATCC® nor the U.S. Government warrants that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, use and disposal. ATCC® and the U.S. Government are not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to ensure authenticity and reliability of materials on deposit, the U.S. Government, ATCC®, their suppliers and contributors to BEI Resources are not liable for damages arising from the misidentification or misrepresentation of products.

Use Restrictions:
This material is distributed for internal research, non-commercial purposes only. This material, its product or its derivatives may not be distributed to third parties. Except as
performed under a U.S. Government contract, individuals contemplating commercial use of the material, its products or its derivatives must contact the contributor to determine if a license is required. U.S. Government contractors may need a license before first commercial sale.

**References:**

2. Lorenzi, H., et al. J. Craig Venter Institute, Rockville, Maryland, USA. Direct Submission.

ATCC® is a trademark of the American Type Culture Collection.