Human Respiratory Syncytial Virus, A1998/3-2

Catalog No. NR-28529

For research use only. Not for human use.

Contributor:
Martin L. Moore, Ph. D., Department of Pediatrics, Emory University, Atlanta, Georgia, USA

Manufacturer:
BEI Resources

Product Description:
Virus Classification: Pneumoviridae, Orthopneumovirus
Species: Human Respiratory Syncytial Virus
Original Source: Human respiratory syncytial virus (RSV), A1998/3-2 was isolated from nasal wash from an infant with RSV bronchiolitis in Tennessee, USA in 1998.1
Comments: A1998/3-2 is one of six clinical RSV isolates that recently were shown to induce variable disease severity, lung interleukin-13 (IL-13) levels, and gob-5 levels in BALB/cJ mice.2 IL-13 is a cytokine linked to mucus production and gob-5 is a calcium-activated chloride channel family member implicated in airway inflammation.3,4 Compared to mock infection, RSV A1998/3-2 infection led to low levels of gob-5 in lung tissue, no significant elevation in IL-13 expression, and no weight loss in infected mice.5 The complete genome of RSV, A1998/3-2 has been sequenced (GenBank: JX069801.1).

RSV was first isolated from infants in 1957 and is recognized as the primary cause of hospitalization for lower respiratory tract illnesses among infants and young children worldwide.5,6 RSV has a negative-sense RNA genome encoding for 10 proteins, of which 2 are nonstructural.6 RSV envelope glycoprotein (G protein) is integral to the immunity and pathogenesis of the virus, and depending on its sequence variation, RSV is divided into two groups, A and B.6 No vaccine for RSV is available however, intravenous prophylaxis with RSV immune globulins has been shown to be effective.7

Material Provided:
Each vial contains approximately 1 mL of cell lysate and supernatant from HEP-2 cells (ATCC® CCL-23™) infected with human respiratory syncytial virus, A1998/3-2.

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

Packaging/Storage:
NR-28529 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 supplemented with 2% fetal bovine serum
Infection: Cells should be 60% to 80% confluent
Incubation: 3 to 7 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 Respiratory Syncytial Virus, A1998/3-2, NR-28529."

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,

BEI Resources
www.beiresources.org

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

© 2012/2018 American Type Culture Collection (ATCC). All rights reserved.
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:

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