Human Respiratory Syncytial Virus, A2001/3-12, Purified from HEP-2 Cells

Catalog No. NR-44231

For research use only. Not for human use.

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Manufacturer: BEI Resources

Product Description:

**Viruses Classification:** Paramyxoviridae, Pneumovirinae, Pneumovirus, Human respiratory syncytial virus  
**Species:** Human respiratory syncytial virus  
**Strain:** A2001/3-12  
**Original Source:** Human respiratory syncytial virus (RSV), A2001/3-12 was isolated from a nasal wash from an infant with RSV bronchiolitis in Nashville, Tennessee on March 12, 2001.  
**Comments:** A2001/3-12 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. IL-13 is a cytokine linked to mucus channel family member implicated in airway inflammation. Compared to mock infection, RSV A2001/3-12 infection led to relatively low levels of gob-5 in lung tissue, and no significant elevation in IL-13 expression, but did induce early weight loss and lung damage in infected mice.  

NR-44231 was prepared by inoculation of HEP-2 cells (ATCC® CCL-23™) with RSV, A2001/3-12. The virus was purified from clarified supernatant by high speed centrifugation. A similarly processed preparation of mock-infected HEP-2 cell clarified supernatant, suitable for use as a control, is available as BEI Resources NR-49974.

Material Provided:  
Each vial contains approximately 0.5 mL of NR-44231 in TBS (0.15 M sodium chloride, 0.05 M Tris-HCl, pH 7.6).

Packaging/Storage:  
NR-44231 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen and should be stored at -80°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 90% confluent  
**Incubation:** 3 to 8 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, A2001/3-12, Purified from HEP-2 Cells, NR-44231.”

Biosafety Level: 2


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**References:**


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