Human Respiratory Syncytial Virus, A1998/3-2, Purified from HEp-2 Cells

Catalog No. NR-44233

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:** Paramyxoviridae, Pneumovirinae, Pneumovirus, Human respiratory syncytial virus

**Species:** Human respiratory syncytial virus

**Strain:** A1998/3-2

**Original Source:** Human respiratory syncytial virus (RSV), A1998/3-2 was isolated from a nasal wash from an infant with RSV bronchiolitis in Nashville, Tennessee, USA on March 2, 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.2

NR-44233 was prepared by inoculation of HEp-2 cells (ATCC® CCL-23™) with RSV, A1998/3-2. 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-43974.

Material Provided:

Each vial contains approximately 0.5 mL of NR-44233 in TBS (0.15 M sodium chloride, 0.05 M Tris-HCl, pH 7.6).

Packaging/Storage:

NR-44233 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:** 6 to 7 days at 37°C and 5% CO₂

**Cytopathic Effect:** Rounding and syncytia formation

Citation:

Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: Human Respiratory Syncytial Virus, A1998/3-2, Purified from HEp-2 Cells, NR-44233.”

Biosafety Level: 2


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