Human Respiratory Syncytial Virus, A1997/12-35, Purified from HEp-2 Cells

Catalog No. NR-43939

For research use only. Not for human use.

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**Manufacturer:**
BEI Resources

**Product Description:**

**Strain:** A1997/12-35

**Original Source:** Human respiratory syncytial virus (RSV), A1997/12-35 was isolated from a nasal wash from an infant with RSV bronchiolitis in Nashville, Tennessee on December 22, 1997.

**Comments:** A1997/12-35 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 production and gob-5 is a calcium-activated chloride channel family member implicated in airway inflammation. Compared to mock infection, RSV A1997/12-35 infection led to relatively high levels of gob-5 and significantly elevated levels of IL-13 in lung tissue, and late weight loss in infected mice.

NR-43939 was prepared by inoculation of HEp-2 cells (ATCC® CCL-23™) with RSV, A1997/12-35. 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-43939 in TBS (0.15 M sodium chloride, 0.05 M Tris-HCl, pH 7.6).

**Packaging/Storage:**
NR-43939 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 80% confluent
- **Incubation:** 4 to 6 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, A1997/12-35, Purified from HEp-2 Cells, NR-43939.”

**Biosafety Level:**
2

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