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

Catalog No. NR-43939

For research use only. Not for use in humans.

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Manufacturer: BEI Resources

Product Description:

Virus Classification: Pneumoviridae, Orthopneumovirus, human Orthopneumovirus
Species: Human respiratory syncytial virus
Strain/Isolate: 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, 1997.1

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.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 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.5 The complete genome of RSV, A1997/12-35 has been sequenced (GenBank: JX069800).

NR-43939 was prepared by inoculation of human epithelial carcinoma cells (HEp-2; 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 tris-buffered saline (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 -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: Human epithelial carcinoma cells (HEp-2; 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 1.5 g/L of sodium bicarbonate supplemented with 2% fetal bovine serum, or equivalent

Infection: Cells should be 60% to 80% confluent

Incubation: 5 to 7 days at 37°C and 5% CO2

Cytopathic Effect: Cell 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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References:

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