

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

**Catalog No. NR-43939**

**Product Description:**

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. NR-43939 lot 70057941 was produced by infecting human epithelial carcinoma cells (HEp-2; ATCC® CCL-23™) with seed material and incubating in Eagle's Minimum Essential Medium (ATCC® 30-2003™) supplemented with 2% fetal bovine serum (ATCC® 30-2020™) for 6 days at 37°C with 5% CO<sub>2</sub>. The virus was purified from clarified supernatant by high speed centrifugation.

**Lot: 70057941**

**Manufacturing Date: 07FEB2023**

TEST	SPECIFICATIONS	RESULTS
<b>Identification by Infectivity in HEp-2 Cells</b>	Syncytia, cell rounding and detachment	Syncytia, cell rounding and detachment
<b>Sequencing of Species-Specific Region</b> (~800 nucleotides)	≥ 98% identity with human RSV, A1997/12-35 (GenBank: JX069800)	100% identity with human RSV, A1997/12-35 (GenBank: JX069800)
<b>Titer by TCID<sub>50</sub> Assay in HEp-2 Cells by Cytopathic Effect and IFA<sup>1,2</sup></b> (12 days at 37°C with 5% CO <sub>2</sub> )	Report results	2.8 × 10 <sup>7</sup> TCID <sub>50</sub> /mL
<b>SDS-PAGE Analysis</b>	Consistent with expected bands for RSV	Consistent with expected bands for RSV Four bands of ~90 kDa, ~50 kDa, ~44 kDa, ~34 kDa and ~28 kDa
<b>Sterility (21-day incubation)</b> Harpo's HTYE broth, 37°C and 26°C, aerobic <sup>3</sup> Trypticase Soy broth, 37°C and 26°C, aerobic Sabouraud broth, 37°C and 26°C, aerobic Sheep blood agar, 37°C, aerobic Sheep blood agar, 37°C, anaerobic Thioglycollate broth, 37°C, anaerobic DMEM with 10% FBS, 37°C, aerobic	No growth No growth No growth No growth No growth No growth No growth	No growth No growth No growth No growth No growth No growth No growth
<b>Mycoplasma Contamination</b> Agar and broth culture (14-day incubation at 37°C) DNA detection by PCR of extracted Test Article nucleic acid	None detected None detected	None detected None detected

<sup>1</sup>The Tissue Culture Infectious Dose 50% (TCID<sub>50</sub>) endpoint is the 50% infectious endpoint in cell culture. The TCID<sub>50</sub> is the dilution of virus that under the conditions of the assay can be expected to infect 50% of the culture vessels inoculated, just as a Lethal Dose 50% (LD<sub>50</sub>) is expected to kill half of the animals exposed. A reciprocal of the dilution required to yield the TCID<sub>50</sub> provides a measure of the titer (or infectivity) of a virus preparation.

<sup>2</sup>Using Light Diagnostics RSV FITC Reagent (5022)

<sup>3</sup>Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

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16 AUG 2023

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