

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

Catalog No. NR-44231

Product Description:

Human respiratory syncytial virus (hRSV), A2001/3-12 was isolated from a nasal wash from an infant with hRSV bronchiolitis in Nashville, Tennessee, on March 12, 2001. NR-44231 lot 70057940 was produced by infecting human epithelial carcinoma cells (HEp-2; ATCC® CCL-23™) 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% CO₂. The virus was purified from clarified supernatant by high speed centrifugation.

Lot: 70057940

Manufacturing Date: 15FEB2023

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in HEp-2 Cells	Syncytia, cell rounding and detachment	Syncytia, cell rounding and detachment
Sequencing of Species-Specific Region (~ 780 nucleotides)	≥ 98% identity with hRSV, A2001/3-12 (GenBank: JX069799)	98.2% identity with hRSV A2001/3-12 (GenBank: JX069799)
Titer by TCID₅₀ Assay in HEp-2 Cells by Fluorescent Antibody Testing^{1,2} (8 days at 37°C with 5% CO ₂)	Report results	2.8 × 10 ⁵ TCID ₅₀ /mL
SDS-PAGE Analysis	Consistent with expected bands for hRSV	Consistent with expected bands for hRSV Four bands of ~90 kDa, ~50 kDa, ~45 kDa, ~34 kDa and ~28 kDa
Sterility (21-day incubation) Harpo's HTYE broth, 37°C and 26°C, aerobic ³ 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
Mycoplasma Contamination 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

¹The Tissue Culture Infectious Dose 50% (TCID₅₀) endpoint is the 50% infectious endpoint in cell culture. The TCID₅₀ 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% (LD₅₀) is expected to kill half of the animals exposed. A reciprocal of the dilution required to yield the TCID₅₀ provides a measure of the titer (or infectivity) of a virus preparation.

²Using RSV DFA reagent (Millipore 5022)

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

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