

Human Respiratory Syncytial Virus, A1998/12-21

Catalog No. NR-28528

Product Description:

Human respiratory syncytial virus (RSV), A1998/12-21 was isolated from a nasal wash from an infant with RSV bronchiolitis in Tennessee, USA on December 12, 1998. NR-28528 lot 70047468 was produced by infecting *Homo sapiens* epithelial carcinoma cells (HEp-2; ATCC® CCL-23™) with seed material (BEI Resources lot 59927466) and incubating in Eagle's Minimum Essential Medium (ATCC® 30-2003™) supplemented with 2% fetal bovine serum (ATCC® 30-2020™) for 4 days at 37°C with 5% CO₂.

Passage History:

HE2/HE8 (Prior to deposit at BEI Resources/BEI Resources); HE = HEp-2 cells

Lot: 70047468

Manufacturing Date: 27SEP2021

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in HEp-2 Cells	Cell rounding and syncytia formation	Cell rounding and syncytia formation
Sequencing of Species-Specific Region (~ 850 nucleotides)	≥ 98% identity with RSV, A1998/12-21 (GenBank: JX069802.1)	99.9% identity with RSV, A1998/12-21 (GenBank: JX069802.1)
Titer by TCID₅₀ Assay in HEp-2 Cells by Direct Fluorescent Antibody^{1,2} (7 days at 37°C with 5% CO ₂)	Report results	2.8 × 10 ⁴ TCID ₅₀ per mL
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 anti-RSV (Light Diagnostics 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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13 DEC 2021

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