

Human Respiratory Syncytial Virus, A2001/3-12

Catalog No. NR-28526

Product Description:

Human respiratory syncytial virus (RSV), A2001/3-12 was isolated from a nasal wash from an infant with RSV bronchiolitis in Nashville, Tennessee, USA, on March 12, 2001. NR-28526 lot 70063139 was produced by infecting *Homo sapiens* carcinoma cells (HEp-2; ATCC® CCL-23™) with seed material (BEI Resources lot 59927470) 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:

HEp-2(12)/HEp-2(7) (Prior to deposit at BEI Resources/BEI Resources); HEp-2 = *Homo sapiens* carcinoma cells

Lot: 70063139

Manufacturing Date: 02SEP2023

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in HEp-2 Cells	Cell rounding and detachment	Cell rounding and detachment
Identification by Fluorescent Antibody Assay ¹	Fluorescence observed	Fluorescence observed
Sequencing of Species-Specific Region (~ 710 nucleotides)	≥ 98% identity with RSV, A2001/3-12 (GenBank: JX069799.1)	99.9% identity with RSV, A2001/3-12 (GenBank: JX069799.1)
Titer by TCID ₅₀ Assay in HEp-2 Cells by Fluorescent Antibody Assay ^{1,2} (7 days at 37°C with 5% CO ₂)	Report results	8.9 × 10 ⁶ TCID ₅₀ /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

¹Using goat anti-respiratory syncytial virus primary antibody (BioRad® 7950-0004)

²The 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.

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

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03 DEC 2023

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