

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 70039170 was produced by infecting *Homo sapiens* 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 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: 70039170

Manufacturing Date: 20OCT2020

| TEST | SPECIFICATIONS | RESULTS |
|---|---|---|
| Identification by Infectivity in HEp-2 Cells | Cell rounding, syncytia formation and detachment | Cell rounding, syncytia formation and detachment |
| Identification by Direct Fluorescent Antibody (DFA) Assay ¹ | Fluorescence observed | Fluorescence observed |
| Sequencing of Species-Specific Region (~ 630 nucleotides) | ≥ 98% identity with RSV, A2001/3-12 (GenBank: JX069799.1) | 99.8% identity with RSV, A2001/3-12 (GenBank: JX069799.1) |
| Titer by TCID ₅₀ Assay in HEp-2 Cells by DFA Readout ^{1,2} (8 days at 37°C with 5% CO ₂) | Report results | 2.8 × 10 ⁶ TCID ₅₀ per mL |
| Amplification of RSV Sequence by RT-PCR | ~ 900 base pair amplicon | ~ 900 base pair amplicon |
| 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 Light Diagnostics™ Anti-Respiratory Syncytial Virus FITC Reagent (Millipore® 5022)

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.

/Heather Couch/

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04 MAR 2021

Program Manager or designee, ATCC Federal Solutions

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