

Human Respiratory Syncytial Virus, A1998/3-2

Catalog No. NR-28529

Product Description: Human respiratory syncytial virus (RSV), A1998/3-2 was isolated from nasal wash from an infant with RSV bronchiolitis in Tennessee, USA in 1998. Vial contains cell lysate and supernatant from HEp-2 cells¹ infected with RSV, A1998/3-2.

Passage History: HE11/HE11 (Prior to deposit at BEI Resources/BEI Resources); HE = HEp-2 cells¹

Lot²: 70017162

Manufacturing Date: 13AUG2018

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in HEp-2 cells¹	Cell rounding and sloughing	Cell rounding and sloughing
Sequencing of Species-Specific Region (860 nucleotides)	≥ 98% identity with RSV, A1998/3-2 (GenBank: JX069801.1)	100% identity with RSV, A1998/3-2 (GenBank: JX069801.1)
Titer by TCID₅₀ Assay^{3,4} in HEp-2 cells¹ with Indirect Fluorescent Antibody (IFA) Readout⁵	Report results	1.6 × 10 ⁶ TCID ₅₀ per mL
Amplification of RSV Sequence by RT-PCR	~ 920 base pair amplicon	~ 920 base pair amplicon
Sterility (21-day incubation) Harpo's HTYE broth ⁶ , 37°C and 26°C, aerobic Trypticase soy broth, 37°C and 26°C, aerobic Sabouraud broth, 37°C and 26°C, aerobic Blood agar, 37°C, aerobic Blood agar, 37°C, anaerobic Thioglycollate broth, 37°C, anaerobic DMEM with 10% FBS, 37°C and 5% CO ₂	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

¹HEp-2 cells: ATCC® CCL-23™

²Grown in Eagle's Minimum Essential Medium containing Earle's Balanced Salt Solution, non-essential amino acids, 2 mM L-glutamine, 1 mM sodium pyruvate and 1.5 g/L of sodium bicarbonate (ATCC® 30-2003) supplemented with 2% fetal bovine serum (ATCC® 30-2020) for 5 days at 37°C with 5% CO₂

³The 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.

⁴7 days at 37°C and 5% CO₂

⁵Using Respiratory Syncytial Virus FITC reagent (Light Diagnostics™ 5022)

⁶Atlas, 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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