b|e|i RESOURCES

SUPPORTING INFECTIOUS DISEASE RESEARCH

Certificate of Analysis for NR-44233

Human Respiratory Syncytial Virus, A1998/3-2, Purified from HEp-2 Cells

Catalog No. NR-44233

Product Description:
Human respiratory syncytial virus (RSV), A1998/3-2 was isolated from a nasal wash from an infant with RSV bronchiolitis in Nashville, Tennessee, USA, on March 2, 1998. NR-44233 lot 70059817 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 7 days at 37°C with 5% CO_2. The virus was purified from clarified supernatant by high speed centrifugation.

Lot: 70059817 **Manufacturing Date: 12APR2023**

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 (~ 830 nucleotides)	≥ 98% identity with RSV, A1998/3-2 (GenBank: JX069801)	100% identity with RSV, A1998/3-2 (GenBank: JX069801)
Titer by $TCID_{50}$ Assay in HEp-2 Cells by Cytopathic Effect[1] (8 days at 37°C with 5% CO_2)	Report results	2.8×10^6 $TCID_{50}$/mL
SDS-PAGE Analysis	Report results	Three bands of ~90 kDa, ~50 kDa and ~44 kDa
Sterility (21-day incubation)		
Harpo's HTYE broth, 37°C and 26°C, aerobic[2]	No growth	No growth
Trypticase Soy broth, 37°C and 26°C, aerobic	No growth	No growth
Sabouraud broth, 37°C and 26°C, aerobic	No growth	No growth
Sheep blood agar, 37°C, aerobic	No growth	No growth
Sheep blood agar, 37°C, anaerobic	No growth	No growth
Thioglycollate broth, 37°C, anaerobic	No growth	No growth
DMEM with 10% FBS, 37°C, aerobic	No growth	No growth
Mycoplasma Contamination		
Agar and broth culture (14-day incubation at 37°C)	None detected	None detected
DNA detection by PCR of extracted Test Article nucleic acid	None detected	None detected

[1]The Tissue Culture Infectious Dose 50% ($TCID_{50}$) endpoint is the 50% infectious endpoint in cell culture. The $TCID_{50}$ 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% (LD_{50}) is expected to kill half of the animals exposed. A reciprocal of the dilution required to yield the $TCID_{50}$ provides a measure of the titer (or infectivity) of a virus preparation.
[2]Atlas, Ronald M. Handbook of Microbiological Media. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

/Sonia Bjorum Brower/
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Technical Manager or designee, ATCC Federal Solutions

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

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