b|e|i RESOURCES

SUPPORTING INFECTIOUS DISEASE RESEARCH

Certificate of Analysis for NR-43938

Human Respiratory Syncytial Virus, A2001/2-20, Purified from HEp-2 Cells

Catalog No. NR-43938

Product Description:

Human respiratory syncytial virus (hRSV), A2001/2-20, was isolated from a nasal wash from an infant with hRSV bronchiolitis in Nashville, Tennessee, on February 20, 2001. NR-43938 was produced by infecting human epithelial carcinoma cells (HEp-2; ATCC® CCL-23™) with seed material (BEI Resources lot 60109226) 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: 70072729 **Manufacturing Date: 13FEB2025**

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 (~ 820 nucleotides)	≥ 98% sequence identity with hRSV, A2001/2-20 (GenBank: JX069798)	100% sequence identity with hRSV, A2001/2-20 (GenBank: JX069798)
Titer by $TCID_{50}$ Assay in HEp-2 Cells by Fluorescent Antibody Testing[1,2] (7 days at 37°C with 5% CO_2)	Report results	8.9×10^5 $TCID_{50}$/mL
SDS-PAGE Analysis	Consistent with expected bands for RSV	Consistent with expected bands for RSV Five bands of ~90 kDa, ~50 kDa, ~44 kDa, ~34 kDa and ~28 kDa
Sterility test (BacT/ALERT 3D)		
iAST bottle (aerobic) at 32.5°C, 14-day incubation	No growth	No growth
iNST bottle (anaerobic) at 32.5°C, 14-day incubation	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]Using goat anti-RSV (Bio-Rad 7950-0004) and rabbit anti-goat (BioRad STAR122f)

/Sonia Bjorum Brower/
Sonia Bjorum Brower 01 OCT 2025
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.

Support Provided by NIAID

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