

Human Respiratory Syncytial Virus, B1

Catalog No. NR-4052

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Product Description: Cell lysate and supernatant from *Cercopithecus aethiops* cells infected with human respiratory syncytial virus (RSV), B1

Lot¹: 0671

Manufacturing Date: 22JUL1999

TEST	SPECIFICATIONS	RESULTS (NOV 2014)
Identification by Infectivity Using Vero Cells ²	Report results	Cell rounding and detachment
Identification by Indirect Fluorescent Antibody (IFA) Assay ³	Fluorescence observed	Fluorescence observed
Sequencing of Species-Specific Region (1035 nucleotides)	Consistent with human RSV, B1	99% identity with human RSV, B1 (GenBank: AF013254)
Titer by TCID ₅₀ Assay ^{4,5} in Vero Cells ² with IFA Readout ³	Report results	8.9 × 10 ⁵ TCID ₅₀ per mL
Functional Activity by RT-PCR Assay	~ 1200 bp amplicon	~ 1200 bp 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 Sheep blood agar, 37°C, aerobic Sheep 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

¹NIAID Catalog No. MISC082

²Vero cells (ATCC® CCL-81™)

³Using Light Diagnostics™ Respiratory Syncytial Virus FITC Reagent (Millipore 5022)

⁴The 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.

⁵7 days at 37°C and 5% CO₂

⁶Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

Date: 27 JAN 2015

Signature: 

Title: Technical Manager, BEI Authentication or designee

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