b|e|i RESOURCES

SUPPORTING INFECTIOUS DISEASE RESEARCH

Certificate of Analysis for NR-56243

Human Respiratory Syncytial Virus, B1

Catalog No. NR-56243

Product Description:

Human respiratory syncytial virus (RSV), B1 was developed by multiple passages in Vero cells from an original human isolate in 1985, in West Virginia, USA. NR-56243 lot 70062310 was produced by infecting *Chlorocebus* (formerly *Cercopithecus) aethiops* kidney epithelial cells (Vero; ATCC® CCL-81™) and incubating in Eagle's Minimum Essential Medium (ATCC® 30-2003™) supplemented with 2% fetal bovine serum (ATCC® 30-2020™) for 6 days at 37°C with 5% CO_2.

Passage History:

V(Unk)/V(2) (Prior to BEI Resources/BEI Resources); V= *Cercopithecus aethiops* kidney cells; Unk = Unknown

Lot: 70062310 **Manufacturing Date: 14AUG2023**

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in Vero Cells	Cell rounding and detachment	Cell rounding and detachment
Identification by Fluorescent Antibody (FA) Assay[1]	Fluorescence observed	Fluorescence observed
Sequencing of Species-Specific Region (~ 810 nucleotides)	≥ 98% identity with RSV, B1 (GenBank: AF013254)	99.9% identity with RSV, B1 (GenBank: AF013254)
Titer by $TCID_{50}$ Assay in Vero Cells by Fluorescent Antibody Assay[1,2] (8 days at 37°C with 5% CO_2)	Report results	1.6×10^6 $TCID_{50}$/mL
Sterility (21-day incubation)		
Harpo's HTYE broth, 37°C and 26°C, aerobic[3]	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]Goat anti-RSV fluorescent antibody (BioRad 7950-0004)

[2]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.

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

/Sonia Bjorum Brower/
Sonia Bjorum Brower 10 JAN 2023
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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