

Recombinant Respiratory Syncytial Virus, A2 Expressing Red Fluorescent Protein (RFP) (rgRSV-BNI)

Catalog No. NR-52019

Product Description:

Recombinant respiratory syncytial virus, A2 expressing red fluorescent protein (RFP) (rgRSV-BNI) was developed using a historical strain of RSV, A2, originally isolated in the 1950s in the USA. NR-52019 lot 70059816 was produced by infecting *Homo sapiens* epithelial carcinoma cells (HEp-2; ATCC® CCL-23™) and incubating in Dulbecco's Modified Eagle's Medium (ATCC® 30-2003™) containing Earle's Balanced Salt Solution with 25 mM HEPES, supplemented with 10% fetal bovine serum, (ATCC® 30-2020™) for 3 days at 37°C with 5% CO₂.

Passage History:

Hep-2(6)/Hep-2(2) (The Ohio State University/BEI Resources)

Lot: 70059816

Manufacturing Date: 30JUN2023

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in HEp-2 Cells	Syncytia formation and cell disruption	Syncytia formation and cell disruption
Confirmation of RFP Expression	Fluorescence observed	Fluorescence observed
Next-Generation Sequencing (NGS) of Complete Genome Using Illumina® MiSeq™	≥ 98% identity with RSV, A2 (GenBank: KT992094.1)	99.99% identity with RSV, A2 (GenBank: KT992094.1)
Titer by TCID₅₀ Assay in HEp-2 Cells by Cytopathic Effect and Fluorescence (RFP)¹ (7 days at 37°C with 5% CO ₂)	Report results	1.6 × 10 ⁷ TCID ₅₀ /mL
Sterility (21-day incubation) Harpo's HTYE broth, 37°C and 26°C, aerobic ² 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, aerobic	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

¹The 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.

²Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

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