

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

Catalog No. NR-52019

## Product Description:

Recombinant respiratory syncytial virus, A2 expressing red fluorescent protein (RFP) (rrRSV-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% CO<sub>2</sub>. **Note: The RFP designation on the vial label is incorrect. The correct RFP designation is rrRSV-BN1.**

## 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 TCID <sub>50</sub> Assay in HEp-2 Cells by Cytopathic Effect and Fluorescence (RFP) <sup>1</sup> (7 days at 37°C with 5% CO <sub>2</sub> )	Report results	1.6 × 10 <sup>7</sup> TCID <sub>50</sub> /mL
<b>Sterility (21-day incubation)</b> Harpo's HTYE broth, 37°C and 26°C, aerobic <sup>2</sup> 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
<b>Mycoplasma Contamination</b> 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

<sup>1</sup>The Tissue Culture Infectious Dose 50% (TCID<sub>50</sub>) endpoint is the 50% infectious endpoint in cell culture. The TCID<sub>50</sub> 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<sub>50</sub>) is expected to kill half of the animals exposed. A reciprocal of the dilution required to yield the TCID<sub>50</sub> provides a measure of the titer (or infectivity) of a virus preparation.

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

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