

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

Catalog No. NR-52019

Product Description:

Recombinant respiratory syncytial virus (RSV), 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 was produced by infecting *Homo sapiens* epithelial carcinoma cells (HEp-2; ATCC® CCL-23™) with BEI Resources seed lot 70059815 and incubating in Dulbecco's Modified Eagle's Medium (ATCC® 30-2003™) containing Earle's Balanced Salt Solution with 25 mM HEPES and 1X Glutamax, supplemented with 10% fetal bovine serum, (ATCC® 30-2020™) for 3 days at 37°C with 5% CO₂. **Note:** The RFP designation on the vial label is incorrect. The correct RFP designation is rrRSV-BN1.

Passage History:

Hep-2(6)/Hep-2(3) (The Ohio State University/BEI Resources)

Lot: 70083484

Manufacturing Date: 10JUL2026

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
Sequencing of Species-Specific Region G/F gene (~ 880 nucleotides)	≥ 98% identity with RSV, A2 (GenBank: KT992094.1)	100% identity with RSV, A2 (GenBank: KT992094.1)
Titer by TCID ₅₀ Assay in Hep-2 Cells by Cytopathic Effect ¹ (8 days at 37°C with 5% CO ₂)	Report results	8.9 × 10 ⁷ TCID ₅₀ /mL
Sterility test (BacT/ALERT 3D) iAST bottle (aerobic) at 32.5°C, 14-day incubation iNST bottle (anaerobic) at 32.5°C, 14-day incubation	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.

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27 AUG 2026

Technical Manager or designee, ATCC Federal Solutions

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