

Human Respiratory Syncytial Virus A, A2023/06-12NSMM

Catalog No. NR-59660

For research use only. Not for use in humans.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Virus Classification: *Pneumoviridae, Orthopneumovirus*

Species: Human Respiratory Syncytial Virus A

Strain/Isolate: A2023/06-12NSMM

Original Source: Human respiratory syncytial virus A (hRSV A), A2023/06-12NSMM was isolated from a nasopharyngeal swab from a pediatric patient June 12, 2023 in Atlanta, Georgia, USA.¹

Comments: The complete genome of hRSV A, A2023/06-12NSMM has been sequenced (GenBank: [OR987486](#)).²

Human RSV is a negative sense, single-stranded RNA virus. It is known to cause widespread illness, with a propensity for nosocomial transmission. It generally causes mild cold-like symptoms, but can cause more severe life-threatening illness in infants and the elderly.

Material Provided:

Each vial contains approximately 1 mL of cell lysate and supernatant from human epithelial carcinoma cells (HEp-2; ATCC® CCL-23™) infected with hRSV A, A2023/06-12NSMM.

Note: If homogeneity is required for your intended use, please purify prior to initiating work.

Packaging/Storage:

NR-59660 was packaged aseptically in cryovials. The product is provided frozen and should be stored at -60°C or colder immediately upon arrival. For long-term storage, the vapor phase of a liquid nitrogen freezer is recommended. Freeze-thaw cycles should be avoided.

Growth Conditions:

Host: Human epithelial carcinoma cells (HEp-2; ATCC® CCL-23™)

Growth Medium: Eagle's Minimum Essential Medium containing Earle's Balanced Salt Solution, non-essential amino acids, 2 mM L-glutamine, 1 mM sodium pyruvate and 1.5 g/L of sodium bicarbonate supplemented with 2% fetal bovine serum, or equivalent

Infection: Cells should be 60% to 80% confluent

Incubation: 3 to 6 days at 37°C and 5% CO₂

Cytopathic Effect: Cell rounding and syncytia formation

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Human Respiratory Syncytial Virus A, A2023/06-12NSMM, NR-59660."

Biosafety Level: 2

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories (BMBL). Current Edition. Washington, DC: U.S. Government Printing Office.

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References:

1. Greenleaf, M., Personal Communication.
2. Maida, T.F., et al. "Whole-Genome Sequencing and Genetic Diversity of Human Respiratory Syncytial Virus in Patients with Influenza-like Illness in Sicily (Italy) from 2017 to 2023." *Viruses* 16 (2024):851. PubMed: 38932144.

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