

## Measles Virus, Edmonston

### Catalog No. NR-44362

This reagent is the property of the U.S. Government.  
Derived from NIAID Catalog No. V-328-001-020

**For research use only. Not for use in humans.**

#### Contributor:

National Institute of Allergy and Infectious Diseases (NIAID),  
National Institutes of Health (NIH)

#### Manufacturer:

BEI Resources

#### Product Description:

Virus Classification: *Paramyxoviridae, Morbillivirus*

Species: Measles virus

Strain/Isolate: Edmonston

Original Source: Measles virus (MeV), Edmonston was isolated from the blood of a human in the acute phase of typical measles in Massachusetts, USA, in 1954.<sup>1</sup>

Comments: NR-44362 was derived from BEI Resources NR-3847, a virus preparation from NIAID's historical repository. NR-3847 was passaged four times in MRC-5 cells (ATCC<sup>®</sup> CCL-171™) to produce NR-44362. The complete genome of the Edmonston strain has been sequenced (GenBank: [K01711](#)).

#### Material Provided:

Each vial contains approximately 1 mL of cell lysate and supernatant from human lung fibroblast cells (MRC-5, ATCC<sup>®</sup> CCL-171™) infected with MeV, Edmonston.

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

#### Packaging/Storage:

NR-44362 was packaged aseptically in screw-capped plastic 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 lung fibroblast cells (MRC-5; ATCC<sup>®</sup> CCL-171™)

Growth Medium: Eagle's Minimum Essential Medium with Earle's Balanced Salt Solution, non-essential amino acids, 2 mM L-glutamine, 1 mM sodium pyruvate, and 1500 mg/L sodium bicarbonate, supplemented with 2% fetal bovine serum.

Infection: Cells should be 80% to 100% confluent

Incubation: 8 to 14 days at 37°C and 5% CO<sub>2</sub>

Cytopathic Effect: Shrinking and detachment

#### Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Measles Virus, Edmonston, NR-44362."

#### 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. 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see [www.cdc.gov/biosafety/publications/bmb15/index.htm](http://www.cdc.gov/biosafety/publications/bmb15/index.htm).

#### Disclaimers:

You are authorized to use this product for research use only. It is not intended for human use.

Use of this product is subject to the terms and conditions of the BEI Resources Material Transfer Agreement (MTA). The MTA is available on our Web site at [www.beiresources.org](http://www.beiresources.org).

While BEI Resources uses reasonable efforts to include accurate and up-to-date information on this product sheet, neither ATCC<sup>®</sup> nor the U.S. Government makes any warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. Neither ATCC<sup>®</sup> nor the U.S. Government warrants that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, use and disposal. ATCC<sup>®</sup> and the U.S. Government are not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to ensure authenticity and reliability of materials on deposit, the U.S. Government, ATCC<sup>®</sup>, their suppliers and contributors to BEI Resources are not liable for damages arising from the misidentification or misrepresentation of products.

#### Use Restrictions:

**This material is distributed for internal research, non-commercial purposes only.** This material, its product or its derivatives may not be distributed to third parties. Except as performed under a U.S. Government contract, individuals contemplating commercial use of the material, its products or its derivatives must contact the contributor to determine if a license is required. U.S. Government contractors may need a license before first commercial sale.

#### References:

- Enders, J. F. and T. C. Peebles. "Propagation in Tissue Cultures of the Cytopathogenic Agents from Patients with Measles." Proc. Soc. Exp. Biol. Med. 86 (1954): 277-286. PubMed: 13177653.

ATCC<sup>®</sup> is a trademark of the American Type Culture Collection.

