

**Encephalomyocarditis Virus (Tissue Culture Adapted)**

**Catalog No. NR-15576**

**For research use only. Not for human use.**

**Contributor:**

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**Manufacturer:**

BEI Resources

**Product Description:**

Virus Classification: *Picornaviridae, Cardiovirus*

Species: Encephalomyocarditis virus (EMCV)

Comments: This isolate was deposited to ATCC® after five passages in weanling mice and two passages in suckling mice. It was adapted to growth in tissue culture by three passages in *Cercopithecus aethiops* (*C. aethiops*) kidney Vero cells (ATCC® CCL-81™).

**Material Provided:**

Each vial contains approximately 1 mL of cell lysate and supernatant from *C. aethiops* kidney Vero cells (ATCC® CCL-81™) infected with tissue culture adapted EMCV.

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

**Packaging/Storage:**

NR-15576 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: Vero cells (ATCC® CCL-81™)

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 80% to 90% confluent; thaw virus rapidly in a 37°C water bath; adsorb diluted virus to cells for one hour at 37°C; MOI = 0.01

Incubation: 1 to 4 days at 37°C and 5% CO<sub>2</sub>

Cytopathic Effect: Refractile rounding and sloughing

**Citation:**

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Encephalomyocarditis Virus (Tissue Culture Adapted), NR-15576."

**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. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see [www.cdc.gov/biosafety/publications/bmb15/index.htm](http://www.cdc.gov/biosafety/publications/bmb15/index.htm).

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**References:**

1. Helwig, F.C., and Schmidt, C.H. "A Filter-Passing Agent Producing Interstitial Myocarditis in Anthropoid Apes and Small Animals." Science. 102 (1945): 31-33. PubMed: 17787415.

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