

**Genomic RNA from Middle East Respiratory Syndrome Coronavirus (MERS-CoV), EMC/2012**

**Catalog No. NR-45843**

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

**Contributor:**

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**Manufacturer:**

BEI Resources

**Product Description:**

Genomic RNA was isolated from a preparation of cell lysate and supernatant from Vero E6 (C1008) cells (ATCC® CRL-1586™) infected with MERS-CoV, EMC/2012.

MERS-CoV, EMC/2012 was isolated from a man with pneumonia in Saudi Arabia in 2012.<sup>1</sup> The complete genome of MERS-CoV, EMC/2012 has been sequenced (GenBank: [JX869059](https://www.ncbi.nlm.nih.gov/nuclseq/JX869059)).<sup>2</sup>

NR-45843 has been qualified for PCR applications by amplification of an approximately 1300 nucleotide sequence. Recommended dilutions for successful RT-PCR amplification are indicated on the Certificate of Analysis for each lot.

**Material Provided:**

Each vial contains approximately 100 µL of viral genomic RNA in TE buffer (10 mM Tris-HCl, 1 mM EDTA, pH 7.0). The viral genomic RNA is in a background of cellular nucleic acid and carrier RNA. The vial should be centrifuged prior to opening.

**Packaging/Storage:**

NR-45843 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen on dry ice and should be stored at -60°C or colder immediately upon arrival. Freeze-thaw cycles should be minimized.

**Citation:**

Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: Genomic RNA from Middle East Respiratory Syndrome Coronavirus (MERS-CoV), EMC/2012, NR-45843.”

**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/bmbl5/index.htm](http://www.cdc.gov/biosafety/publications/bmbl5/index.htm).

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**References:**

1. Zaki, A. M., et al. “Isolation of a Novel Coronavirus from a Man with Pneumonia in Saudi Arabia.” [N. Engl. J. Med.](#) 367 (2012): 1814-1820. PubMed: 23075143.
2. van Boheemen, S., et al. “Genomic Characterization of a Newly Discovered Coronavirus Associated with Acute Respiratory Distress Syndrome in Humans.” [mBio.](#) 6 (2012): e00473-12. PubMed: 23170002.

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