Middle East Respiratory Syndrome Coronavirus (MERS-CoV), EMC/2012

Catalog No. NR-44260

For research use only. Not for human use.

Contributor: Ron A. M. Fouchier, Ph.D. and Bart L. Haagmans, Ph.D., Viroscience Lab, Erasmus Medical Center, Rotterdam, the Netherlands

Manufacturer: BEI Resources

Product Description:

Virus Classification: Nodovirales, Coronaviridae, Coronavirinae, Betacoronavirus

Agent: Middle East respiratory syndrome coronavirus (MERS-CoV)

Strain/Isolate: EMC/2012

Original Source: MERS-CoV, EMC/2012 was isolated in 2012 from an elderly man with fatal pneumonia in Saudi Arabia.1

Comments: The complete genome of MERS-CoV, EMC/2012 has been sequenced (GenBank: JX869059).2

Material Provided:

Each vial contains approximately 1 mL of cell lysate and supernatant from Cercopithecus aethiops kidney epithelial cells infected with MERS-CoV, EMC/2012.

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

Packaging/Storage:

NR-44260 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: Cercopithecus aethiops kidney epithelial cells (Vero 76, clone E6; ATCC® CRL-1586™ or equivalent)

Growth Medium: Dulbecco’s Modified Eagle’s Medium containing 4 mM L-glutamine, 1 mM sodium pyruvate, 4.5 g per L L-glucose and 1.5 g per L sodium bicarbonate, supplemented with 10% fetal bovine serum or equivalent

Infection: Cells should be approximately 80% confluent

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

Cytopathic Effect: Refractile cell rounding, clumping and detachment

Citation:

Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: Middle East Respiratory Syndrome Coronavirus (MERS-CoV), EMC/2012, NR-44260.”

Biosafety Level: 3


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.

While BEI Resources uses reasonable efforts to include accurate and up-to-date information on this product sheet, neither ATCC® 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® 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® 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®, 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:


ATCC® is a trademark of the American Type Culture Collection.