

SUPPORTING INFECTIOUS DISEASE RESEARCH

# **Product Information Sheet for NR-50415**

Middle East Respiratory Syndrome Coronavirus, Florida/USA-2\_Saudi Arabia 2014

Catalog No. NR-50415

For research use only. Not for human use.

## **Contributor:**

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#### Manufacturer:

**BEI Resources** 

### **Product Description:**

<u>Virus Classification</u>: *Nodovirales*, *Coronaviridae*, *Coronavirinae*. *Betacoronavirus* 

<u>Agent</u>: Middle East respiratory syndrome coronavirus (MERS-CoV)

Strain/Isolate: Florida/USA-2\_Saudi Arabia\_2014

Original Source: MERS-CoV, Florida/USA-2\_Saudi Arabia\_2014, was isolated on May 10, 2014 from a human who had travelled to Florida, USA from Saudi Arabia<sup>1-3</sup>

<u>Comments</u>: The complete genomic sequence of MERS-CoV, Florida/USA-2\_Saudi Arabia\_2014 has been determined (GenBank: KJ829365; KP223131)<sup>2,3</sup>

#### **Material Provided:**

Each vial contains approximately 1 mL of cell lysate and supernatant from *Cercopithecus aethiops* kidney epithelial cells (Vero: ATCC<sup>®</sup> CCL-81™) infected with MERS-CoV, Florida/USA-2\_Saudi Arabia\_2014.

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

## Packaging/Storage:

NR-50415 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: 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 5% fetal bovine serum, or equivalent Infection: Cells should be approximately 80% confluent

Incubation: 3 to 5 days at 37°C and 5% CO<sub>2</sub>

<u>Cytopathic Effect</u>: 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, Florida/USA-2\_Saudi Arabia\_2014, NR-50415."

## Biosafety Level: 3

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.

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#### References:

- Bialek, S. R., et al. "First Confirmed Cases of Middle East Respiratory Syndrome Coronavirus (MERS-CoV) Infection in the United States, Updated Information on the Epidemiology of MERS-CoV Infection, and Guidance for the Public, Clinicians, and Public Health Authorities – May 2014." MMWR Morb. Mortal. Wkly. Rep. 63 (2014): 431-436. PubMed: 24827411.
- Tao, Y., et al. Division of Viral Diseases, Centers for Disease Control and Prevention, 1600 Clifton Road, Atlanta, Georgia 30333, USA. 14 MAY 2014. Direct Submission.
- Tao, Y., et al. Division of Viral Diseases, Centers for Disease Control and Prevention, 1600 Clifton Road, Atlanta, Georgia 30333, USA. 01 DEC 2014. Direct Submission.

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