Middle East Respiratory Syndrome Coronavirus, EMC/2012, Recombinant Infectious Clone [icMERS-CoV (WT)]

Catalog No. NR-48811

For research use only. Not for use in humans.

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Manufacturer: BEI Resources

Product Description:

Virus Classification: Nodovirales, Coronaviridae, Coronavirinae, Betacoronavirus

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

Strain/Isolate: Recombinant infectious clone of wild type EMC/2012 [icMERS-CoV (WT)]

NR-48811 is a recombinant human group 2c betacoronavirus assembled from the MERS-CoV, EMC/2012 genomic sequence.

Material Provided:

Each vial contains approximately 1 mL of cell lysate and supernatant from Cercopithecus aethiops kidney epithelial cells (Vero: ATCC® CCL-81™) infected with icMERS-CoV (WT).

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

Packaging/Storage:

NR-48811 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. Freezethaw 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 per L sodium bicarbonate supplemented with 2% fetal bovine serum, or equivalent

Infection: Cells should be 80% to 90% confluent

Incubation: 3 to 4 days at 37°C and 5% CO2

Cytopathic Effect: Refractile cell rounding and detachment, with some syncytia formation

Citation: Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: Middle East Respiratory Syndrome Coronavirus, EMC/2012, Recombinant Infectious Clone [icMERS-CoV (WT)]. NR-48811.”

Biosafety Level: 3


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References:
1. Baric, R. S., Personal Communication.

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