

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

**Catalog No. NR-48811**

**Product Description:**

NR-48811 is cell lysate and supernatant from *Cercopithecus aethiops* kidney epithelial cells (Vero cells: ATCC® CCL-81™) infected with Middle East respiratory syndrome coronavirus, EMC/2012, recombinant infectious clone [icMERS-CoV (WT)], and grown in Eagle's Minimum Essential Medium (ATCC® 30-2003™) supplemented with 2% fetal bovine serum (ATCC® 30-2020™) for 3 days at 37°C and 5% CO<sub>2</sub>.

**Passage History:**

V(1)/V(2) (Prior to deposit at BEI Resources/BEI Resources); V = Vero cells

**Lot: 63541995**

**Manufacturing Date: 26JUN2015**

TEST	SPECIFICATIONS	RESULTS
<b>Identification by Infectivity in Vero Cells</b>	Refractile cell rounding and detachment	Refractile cell rounding and detachment
<b>Sequencing of Strain-Specific Region</b> (~ 1110 nucleotides)	≥ 98% identity with MERS-CoV, EMC/2012 (GenBank: JX869059)	100% identity with MERS-CoV, EMC/2012 (GenBank: JX869059)
<b>Titer by TCID<sub>50</sub> Assay in Vero Cells<sup>1</sup></b> (4 days at 37°C and 5% CO <sub>2</sub> )	Report results	8.9 × 10 <sup>6</sup> TCID <sub>50</sub> per mL
<b>Sterility (21-day incubation)</b> Harpo's HTYE broth, 37°C and 26°C, aerobic <sup>2</sup> Trypticase soy broth, 37°C and 26°C, aerobic Sabouraud broth, 37°C and 26°C, aerobic Sheep blood agar, 37°C, aerobic Sheep blood agar, 37°C, anaerobic Thioglycollate broth, 37°C, anaerobic DMEM with 10% FBS, 37°C, aerobic	No growth No growth No growth No growth No growth No growth No growth	No growth No growth No growth No growth No growth No growth No growth
<b>Mycoplasma Contamination</b> Agar and broth culture (14-day incubation at 37°C) DNA detection by PCR of extracted Test Article nucleic acid	None detected None detected	None detected None detected

<sup>1</sup>The Tissue Culture Infectious Dose 50% (TCID<sub>50</sub>) endpoint is the 50% infectious endpoint in cell culture. The TCID<sub>50</sub> is the dilution of virus that under the conditions of the assay can be expected to infect 50% of the culture vessels inoculated, just as a Lethal Dose 50% (LD<sub>50</sub>) is expected to kill half of the animals exposed. A reciprocal of the dilution required to yield the TCID<sub>50</sub> provides a measure of the titer (or infectivity) of a virus preparation.

<sup>2</sup>Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

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Program Manager or designee, ATCC Federal Solutions

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