

**Middle East Respiratory Syndrome Coronavirus, Recombinant Infectious Clone with ORF5 Red Fluorescent Protein Replacement (icMERS-CoV-RFP-ΔORF5)**

**Catalog No. NR-48813**

**Product Description:** Cell lysate and supernatant from *Cercopithecus aethiops* kidney epithelial cells<sup>1</sup> infected with Middle East respiratory syndrome coronavirus, recombinant infectious clone with ORF5 red fluorescent protein replacement (icMERS-CoV-RFP-ΔORF5)

**Passage History:** Submission laboratory: Vero (3); BEI Resources: Vero<sup>1</sup> (7)

**Lot<sup>2</sup>: 63140603**

**Manufacturing Date: 27SEP2015**

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in Vero Cells <sup>1</sup>	Syncytial rounding and sloughing	Syncytial rounding and sloughing
Identification by Direct Red Fluorescence	Fluorescence observed	Fluorescence observed
Sequencing of Strain-Specific Region (1132 nucleotides)	Consistent with MERS-CoV	100% identity with MERS-CoV, EMC/2012 (GenBank: JX869059)
Titer by TCID <sub>50</sub> Assay in Vero Cells <sup>1,3,4</sup>	Report results	8.9 × 10 <sup>7</sup> TCID <sub>50</sub> per mL
<b>Sterility (21-day incubation)</b> Harpo's HTYE broth <sup>5</sup> , 37°C and 26°C, aerobic 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 and 5% CO <sub>2</sub>	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 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>Vero cells: ATCC® CCL-81™


<sup>2</sup>Grown in Dulbecco's Modified Eagle's Medium (ATCC® 30-2002) supplemented with 5% fetal bovine serum (ATCC® 30-2020) for 3 days at 37°C and 5% CO<sub>2</sub>

<sup>3</sup>TCID<sub>50</sub> (50% tissue culture infectious dose): The TCID<sub>50</sub> is the 50% infectious endpoint in tissue 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. A reciprocal of the dilution required to yield the TCID<sub>50</sub> provides a measure of the titer of a virus preparation.

<sup>4</sup>6 days at 37°C and 5% CO<sub>2</sub>

<sup>5</sup>Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

**Date:** 18 DEC 2015

**Signature:** 

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