

**Middle East Respiratory Syndrome Coronavirus, Recombinant Infectious Clone with T1015N Tissue Culture Adaptation Mutation (icMERS-CoV-T1015N)**

**Catalog No. NR-48812**

**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 T1015N tissue culture adaptation mutation (icMERS-CoV-T1015N)

**Passage History:** Submission laboratory: Vero (1); BEI Resources: Vero<sup>1</sup> (2)

**Lot<sup>2</sup>: 63541998**

**Manufacturing Date: 25JUN2015**

TEST	SPECIFICATIONS	RESULTS
<b>Identification by Infectivity in Vero Cells<sup>1</sup></b>	Refractile cell rounding and detachment	Refractile cell rounding and detachment
<b>Sequencing of Strain-Specific Region (728 nucleotides)</b>	Consistent with MERS-CoV  T1015N mutation confirmed	99% identity with MERS-CoV, EMC/2012 (GenBank: JX869059) T1015N mutation confirmed
<b>Titer by TCID<sub>50</sub> Assay in Vero Cells<sup>1,3,4</sup></b>	Report results	2.8 × 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
<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 2% fetal bovine serum (ATCC® 30-2020) for 2 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>8 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:** 06 OCT 2016

**Signature:** 

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