

**Middle East Respiratory Syndrome Coronavirus (MERS-CoV), EMC/2012, Heat-Inactivated**

**Catalog No. NR-50171**

**Product Description:** Clarified cell lysate and supernatant from Vero E6 cells infected with MERS-CoV, EMC/2012 that has been inactivated by heating to 65°C for 15 minutes.

**Lot: 64125986**

**Manufacturing Date: 01MAR2016**

TEST	SPECIFICATIONS	RESULTS
Pre-Inactivation Titer by TCID <sub>50</sub> Assay in Vero E6 Cells <sup>1,2</sup>	Report results	8.9 × 10 <sup>6</sup> TCID <sub>50</sub> per mL
Pre-Inactivation Sterility <sup>3</sup>	No growth	No growth
Pre-Inactivation Mycoplasma Contamination <sup>4</sup>	None detected	None detected
Viral Genome Copy Number by Quantitative Real-Time RT-PCR Pre-Inactivation Post-Inactivation	Report results Report results	2.11 × 10 <sup>8</sup> copies per µL 2.77 × 10 <sup>8</sup> copies per µL
Virus Inactivation 10% of total yield inoculated on Vero E6 cells and evaluated for cytopathic effect and presence of viral RNA by real-time RT-PCR <sup>5</sup>	No viable virus detected	No viable virus detected

<sup>1</sup>The Tissue Culture Infectious Dose 50% (TCID<sub>50</sub>) 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>5 days at 37°C and 5% CO<sub>2</sub>

<sup>3</sup>13 days at 37°C on Sheep Blood agar

<sup>4</sup>DNA detection by PCR of extracted Test Article nucleic acid

<sup>5</sup>The inactivated virus preparation was plated on Vero E6 cells and incubated for 7 days at 37°C and 5% CO<sub>2</sub>; cell lysate and supernatant from these cultures was blind passaged on fresh monolayers of Vero E6 cells and again incubated for 7 days at 37°C and 5% CO<sub>2</sub>.

**Date:** 12 AUG 2016

**Signature:** 

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