

**Zika Virus, PRVABC59, Infected Cell Lysate, Gamma-Irradiated**

**Catalog No. NR-50547**

**Product Description:** A crude preparation of Vero E6<sup>1</sup> cells infected with Zika virus (ZIKV), PRVABC59 was gamma-irradiated (5 x 10<sup>6</sup> RADs) on dry ice.

**Lot<sup>2,3</sup>: 70003287**

**Manufacturing Date: 02MAR2017**

TEST	SPECIFICATIONS	RESULTS
<b>Pre-Inactivation Titer by TCID<sub>50</sub> Assay in Vero E6 cells<sup>4,5</sup></b>	Report results	2.8 x 10 <sup>7</sup> TCID <sub>50</sub> per mL
<b>Pre-Inactivation Sterility (21-day incubation)</b> Harpo's HTYE broth <sup>6</sup> , 37°C and 26°C, aerobic Trypticase soy broth, 37°C and 26°C, aerobic Sabouraud broth, 37°C and 26°C, aerobic Blood agar, 37°C, aerobic 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>Pre-Inactivation Mycoplasma Contamination</b> Agar and broth culture (14-day incubation at 37°C) DNA detection by PCR of extracted Test Article nucleic	None detected None detected	None detected None detected
<b>Viral Genome Copy Number</b> Droplet Digital RT-PCR <sup>7</sup> Quantitative Real-Time RT-PCR	Report results Report results	1.1 x 10 <sup>7</sup> genome copies per µL 3.0 x 10 <sup>7</sup> genome copies per µL
<b>Amplification of Zika Virus NS3/NS4 Coding Region by RT-PCR</b>	~ 1100 base pair amplicon	~ 1100 base pair amplicon
<b>Virus Inactivation</b> Cell culture safety test for residual virus <sup>8</sup> NR-50547 was inoculated on Vero E6 cells and evaluated for cytopathic effect and viral antigen expression by indirect immunofluorescence assay after serial passage <sup>9</sup>	No recovered virus No viable virus detected	No recovered virus No viable virus detected

<sup>1</sup>*Cercopithecus aethiops* kidney, ATCC® CRL-1586™

<sup>2</sup>Source of irradiated antigen: BEI Resources NR-50240 lot 70002764

<sup>3</sup>All tests were completed post-inactivation unless specified

<sup>4</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>5</sup>7 days at 28°C and 5% CO<sub>2</sub>

<sup>6</sup>Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

<sup>7</sup>ddPCR data was obtained post-vial from 9 replicates on the BioRad QX200 Droplet Digital PCR (ddPCR™) System

<sup>8</sup>Performed at University of Texas Medical Branch, Galveston, Texas, USA

<sup>9</sup>The inactivated virus preparation was plated on Vero E6 cells and incubated for 14 days at 37°C and 5% CO<sub>2</sub>; cell lysate and supernatant from these cultures was passaged on fresh monolayers of Vero E6 cells and again incubated for 14 days at 37°C and 5% CO<sub>2</sub>.

/Heather Couch/

Heather Couch

29 OCT 2018

Program Manager or designee, ATCC Federal Solutions

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

ATCC® is a trademark of the American Type Culture Collection.

You are authorized to use this product for research use only. It is not intended for human use.

