

**Zika Virus, DAK AR 41524**

**Catalog No. NR-50338**

**Product Description:** Cell lysate and supernatant from *Cercopithecus aethiops* kidney epithelial cells (Vero)<sup>1</sup> infected with Zika virus (ZIKV), DAK AR 41524

**Passage History:** A1C1/V5<sup>2</sup> (Prior to deposit at BEI/BEI); A# = Number of passages in *Aedes pseudocutellaris* (AP61) cells; C# = Number of passages in *Aedes albopictus* (C6/36) cells; V# = Number of passages in Vero cells

**Lot<sup>3</sup>: 64237873**

**Manufacturing Date: 30JUL2016**

TEST	SPECIFICATIONS	RESULTS
<b>Infectivity in Vero Cells<sup>1</sup></b>	Report results	Cell rounding and detachment
<b>Sequencing of Species-Specific Region (975 nucleotides)</b>	Consistent with ZIKV, DAK AR 41524	100% identity with ZIKV, DAK AR 41524 (GenBank: KX601166) <sup>4</sup>
<b>Titer by TCID<sub>50</sub> Assay in Vero Cells<sup>1,5,6</sup></b>	Report results	1.6 × 10 <sup>9</sup> TCID <sub>50</sub> per mL
<b>Sterility (21-day incubation)</b> Harpo's HTYE broth <sup>7</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 Test Article nucleic acid	None detected None detected	None detected None detected

<sup>1</sup>Vero cells: ATCC® CCL-81™

<sup>2</sup>Removal of a contaminating insect virus (Dezidougou virus) required three additional virus passages at BEI Resources.

<sup>3</sup>Grown in Eagle's Minimum Essential Medium containing Earle's Balanced Salt Solution, non-essential amino acids, 2 mM L-glutamine, and 1 mM sodium pyruvate (ATCC® 30-2003), supplemented with 2% fetal bovine serum (ATCC® 30-2020) for 4 days at 37°C with 5% CO<sub>2</sub>

<sup>4</sup>The complete coding sequence of NR-50338, Lot No. 64237873 has also been determined (GenBank: KY348860).

<sup>5</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>6</sup>9 days at 37°C with 5% CO<sub>2</sub>

<sup>7</sup>Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

**Date:** 15 MAR 2017

**Signature:**



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