

Zika Virus, PRVABC59

Catalog No. NR-50240

Product Description: Cell lysate and supernatant from *Cercopithecus aethiops* kidney epithelial cells¹ infected with Zika virus (ZIKV), PRVABC59

Passage History: V3/V2 (Centers for Disease Control/BEI Resources); V# = Number of passages in Vero cells

Lot²: 64202927

Manufacturing Date: 13APR2016

| TEST | SPECIFICATIONS | RESULTS |
|--|---|---|
| Infectivity in Vero E6 Cells ¹ | Report results | Cell rounding and detachment |
| Sequencing of Species-Specific Region (824 nucleotides) | Consistent with ZIKV, PRVABC59 | 99% identity with ZIKV, PRVABC59 (GenBank: KU501215) ³ |
| Titer by TCID ₅₀ Assay in Vero E6 Cells ^{1,4,5} | Report results | 1.6 × 10 ⁸ TCID ₅₀ per mL |
| Sterility (21-day incubation) Harpo's HTYE broth ⁶ , 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 ₂ | 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 |
| Mycoplasma Contamination 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 |

¹Vero 76, clone E6: ATCC® CRL-1586™

²Grown in Eagle's Minimum Essential Medium containing Earle's Balanced Salt Solution, non-essential amino acids, 2 mM L-glutamine, 1 mM sodium pyruvate (ATCC® 30-2003) and 2% fetal bovine serum (ATCC® 30-2020) for 5 days at 37°C with 5% CO₂

³The complete coding sequence of NR-50240, Lot No. 64112564 has also been determined (GenBank: KX087101).

⁴The Tissue Culture Infectious Dose 50% (TCID₅₀) is the 50% infectious endpoint in cell culture. The TCID₅₀ 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% (LD₅₀) is expected to kill half of the animals exposed. A reciprocal of the dilution required to yield the TCID₅₀ provides a measure of the titer (or infectivity) of a virus preparation.

⁵8 days at 37°C with 5% CO₂

⁶Atlas, 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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