

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: 64112564

Manufacturing Date: 15MAR2016

TEST	SPECIFICATIONS	RESULTS
Infectivity in Vero E6 Cells ¹	Report results	Cell rounding and detachment
Sequencing of Species-Specific Region (1716 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
Viral Genome Copy Number by Droplet Digital RT-PCR ⁶	Report results	~8 × 10 ⁶ copies per μL
Sterility (21-day incubation) Harpo's HTYE broth ⁷ , 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 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.

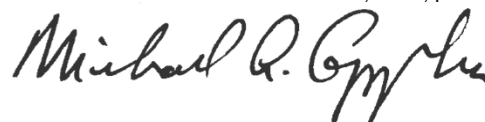
⁵7 days at 37°C with 5% CO₂

⁶Estimated from viral RNA content of NR-50244, Lot No. 64112564, without accounting for efficiency of nucleic acid extraction; presented for information only; users should verify copy number in their own assays before using either NR-50240 or NR-50244 as quantitative standards.

⁷Atlas, 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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