

Zika Virus, PLCal_ZV

Catalog No. NR-50234

Product Description: Cell lysate and supernatant from *Cercopithecus aethiops* kidney epithelial cells (Vero 76, clone E6) infected with Zika virus (ZIKV), PLCal_ZV

Passage History: V5/V5¹ (Public Health Agency of Canada/BEI Resources); V# = Number of passages in Vero cells

Lot²: 64103045

Manufacturing Date: 22JUN2016

TEST	SPECIFICATIONS	RESULTS
Infectivity in Vero E6 Cells	Report results	Cell rounding and detachment
Sequencing of Species-Specific Region (1656 nucleotides)	Consistent with ZIKV, PLCal_ZV	99% identity with ZIKV, PLCal_ZV (GenBank: KF993678)
Titer by TCID₅₀ Assay in Vero E6 Cells^{3,4}	Report results	1.6 × 10 ⁷ TCID ₅₀ per mL
Sterility (21-day incubation) Harpo's HTYE broth ⁵ , 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

¹Removal of contaminating mycoplasma required three additional virus passages at BEI Resources.

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 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.

⁴7 days at 37°C with 5% CO₂

⁵Atlas, 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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