

Certificate of Analysis for NR-51813

Zika Virus, DAK AR 41524

Catalog No. NR-51813

Product Description:

Zika virus (ZIKV), DAK AR 41524 was isolated from a mosquito (Aedes africanus) in Kédougou, Senegal, on November 17, 1984.

Passage History:

A1C1V2C1/C2 (Prior to deposit at BEI Resources/BEI Resources); A = Aedes pseudoscutellaris (AP61) cells; V = Vero cells; C = Aedes albopictus (C6/36) cells¹

Lot: 70029217² Manufacturing Date: 10OCT2019

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in C6/36 cells ¹	Report results	Cell rounding and detachment
Identification by Indirect Fluorescent Antibody (IFA) Assay³	Fluorescence observed	Fluorescence observed
Sequencing of Species-Specific Region (~ 850 nucleotides)	≥ 98% identity with ZIKV, DAK AR 41524 (GenBank: KX601166.2)	100% identity with ZIKV, DAK AR 41524 (GenBank: KX601166.2)
Titer by TCID ₅₀ Assay in C6/36 cells with IFA Readout ^{1,3,4,5}	Report results	2.8 × 10 ⁸ TCID ₅₀ per mL
Genome Copy Number by ddPCR ⁶	Report results	7.3 × 10 ⁷ genome copies per mL
Amplification of ZIKV Sequence by RT-PCR	~ 1080 base pair amplicon	~ 1080 base pair amplicon
Endotoxin Content (Limulus Amoebocyte Lysate Assay)	Report results	2.5 EU per mL
Sterility (21-day incubation) Harpo's HTYE broth, 37°C and 26°C, aerobic ⁷ 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 ₂	No growth	No growth
Mycoplasma Contamination Agar and broth culture (14-day incubation at 37°C) DNA detection by PCR of extracted Test Article nucleic acid	None detected None detected	None detected None detected

¹Aedes albopictus clone C6/36 cells (ATCC® CRL-1660™)

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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 and 1.5 g/L of sodium bicarbonate (ATCC[®] 30-2003) supplemented with 2% fetal bovine serum (ATCC[®] 30-2020) for 9 days at 28°C with 5% CO₂.

³Using Anti-Zika NS1 Monoclonal Antibody (Aalto Bio Reagents AZ 1225)

⁴The Tissue Culture Infectious Dose 50% (TCID₅₀) endpoint 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.

⁵Assay plates were incubated 9 days at 28°C and 5% CO₂

⁶ddPCR data was obtained post-vial from 9 replicates on the BioRad QX200 Droplet Digital PCR (ddPCR™) System.

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



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/Heather Couch/ Heather Couch

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Program Manager or designee, ATCC Federal Solutions

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