

Yellow Fever Virus, 17D

Catalog No. NR-116

(Derived from ATCC® VR-1506™)

Product Description: Cell lysate and supernatant from African green monkey kidney (Vero) cells¹ infected with Yellow fever virus (YFV), 17D.

Lot²: 7496109

Manufacturing Date: 15JUL2006

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in Vero Cells ¹	Report results	Cell rounding and cell lysis
Identification by Indirect Fluorescent Antibody Assay ³	Fluorescence observed	Fluorescence observed
Sequencing of YFV Specific Sequence (~ 280 bp)	Identical to GenBank X03700 (YFV, 17D vaccine strain)	Identical to GenBank X03700 (YFV, 17D vaccine strain) ⁴
Titer by TCID ₅₀ Assay ^{5,6} in Vero Cells ¹	Report results	1.6 x 10 ⁷ TCID ₅₀ /mL
Functional Activity by RT-PCR Assay Using YFV Specific Primers	~ 350 and 450 bp amplicons	~ 350 and 450 bp amplicons
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
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 cells: ATCC® CCL-81™.

²The inoculum for NR-116 was ATCC® VR-1506™ (Lot 1918566). Cells were grown in Minimum Essential Medium containing Earle's salts and non-essential amino acids (Invitrogen™ 10370-021) supplemented with 2% irradiated fetal bovine serum (Cambrex® 14-471F), 2 mM L-glutamine (Invitrogen™ 25030-081), and 1 mM sodium pyruvate (Invitrogen™ 11360-070) for 10 days at 37°C and 5% CO₂.

³Using monoclonal antibody specific to YFV, 17D (Millipore MAB984).

⁴Also consistent with other strains/isolates of YFV.

⁵The 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.

⁶18 days at 37°C and 5% CO₂.

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

Date: 12 MAR 2008

Signature: Signature on File

Title: Technical Manager, BEI Authentication or designee

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