

**Yellow Fever Virus (YFV), 17D**

**Catalog No. NR-115**

Derived from ATCC® VR-1268

**Product Description:** Cell lysate and supernatant from African green monkey kidney (Vero) cells<sup>1</sup> infected with YFV, 17D.

**Lot<sup>2</sup>: 7496108**

**Manufacturing Date: 03OCT2006**

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in Vero Cells <sup>1</sup>	Report results	Cell rounding and cell lysis
Identification by Indirect Fluorescent Antibody Assay <sup>3</sup>	Fluorescence observed	Fluorescence observed
Sequencing of YFV Specific Sequence (~ 275 bp)	Identical to GenBank X03700 (YFV, 17D vaccine strain)	Identical to GenBank X03700 (YFV, 17D vaccine strain) <sup>4</sup>
Titer by TCID <sub>50</sub> Assay <sup>5,6</sup> in Vero Cells <sup>1</sup>	Report results	8.9 x 10 <sup>7</sup> TCID <sub>50</sub> /mL
Functional Activity by RT-PCR Assay Using YFV Specific Primers	~ 350 and 450 bp amplicons	~ 350 and 450 bp amplicons
<b>Sterility (21-day incubation)</b> Harpo's HTYE broth <sup>7</sup> , 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 <sub>2</sub>	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
<b>Mycoplasma Contamination</b> 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

<sup>1</sup>Vero cells: ATCC® CCL-81™.

<sup>2</sup>The inoculum for NR-115 was ATCC® VR-1268 (Lot No. V-525-001-022, NIAID). 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® 14-471E), 2 mM L-glutamine (Invitrogen™ 25030-081), and 1 mM sodium pyruvate (Invitrogen™ 11360-070) for 7 days at 37°C and 5% CO<sub>2</sub>.

<sup>3</sup>Using monoclonal antibody specific to YFV, 17D (Chemicon MAB984).

<sup>4</sup>Also consistent with other strains/isolates of YFV.

<sup>5</sup>The Tissue Culture Infectious Dose 50% (TCID<sub>50</sub>) endpoint is the 50% infectious endpoint in cell culture. The TCID<sub>50</sub> 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% (LD<sub>50</sub>) is expected to kill half of the animals exposed. A reciprocal of the dilution required to yield the TCID<sub>50</sub> provides a measure of the titer (or infectivity) of a virus preparation.

<sup>6</sup>14 days at 37°C and 5% CO<sub>2</sub>.

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

**Date:** 11 DEC 2007

**Signature:** Signature on File

**Title:** Technical Manager, BEI Authentication or designee

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