

Yellow Fever Virus, 17D

Catalog No. NR-116

Product Description:

Yellow fever virus (YFV), 17D was derived from the virulent Asibi strain of yellow fever virus (YFV) by *in vitro* passage in chicken embryo tissue. The Asibi strain was isolated in 1927 from the blood of a West African patient. NR-116 lot 70050752 was produced by infecting African green monkey kidney cells (Vero; ATCC CCL-81™) with BEI Resources seed lot 7496111 and incubating in EMEM (ATCC 30-2003™) supplemented with 2% fetal bovine serum (ATCC® 30-2020) for 6 days at 37°C with 5% CO₂.

Passage History:

Parent Strain (Asibi): MK53/MEmb(mince)(18)/CE(whole embryo mince)(50); Subline Strain (17D) (Prior to deposit at BEI Resources): CE(less CNS)(152)/CE(3)/CE(less CNS)(1)/CE(8)/V(2); Subline Strain (17D) (BEI Resources): V(3); MK = Monkey Kidney; MEmb = Mouse embryo; CE = Chicken embryo; CE(less CNS) = Chicken embryo (central nervous system removed); CE = Embryonated chicken eggs; V = Vero cells

Lot: 70050752

Manufacturing Date: 01MAR2022

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in Vero Cells	Cell rounding and detachment	Cell rounding and sloughing
Sequencing of Species-Specific Region (~ 890 nucleotides)	≥ 98% identity with YFV, 17D (GenBank: X03700.1)	99.8% identity with YFV, 17D (GenBank: X03700.1)
Titer by TCID₅₀ Assay in Vero Cells by Cytopathic Effect¹ (7 days at 37°C and 5% CO ₂)	Report results	1.6 × 10 ⁸ TCID ₅₀ per mL
Amplification of YFV Sequence by RT-PCR	~ 1000 base pair amplicon	~ 1000 base pair amplicon
Sterility (21-day incubation) Harpo's HTYE broth, 37°C and 26°C, aerobic ² 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, aerobic	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 extracted Test Article nucleic acid	None detected None detected	None detected None detected

¹The 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.

²Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

/Heather Couch/

Heather Couch

01 JUN 2022

Program Manager or designee, ATCC Federal Solutions

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