

Dengue Virus Type 2, New Guinea C

Catalog No. NR-84

(Derived from ATCC® VR-1584™)

Product Description:

Dengue virus type 2 (DEN-2), New Guinea C (NGC) was isolated from the serum of a febrile human in New Guinea in 1944. NR-84 was produced by infecting *Macaca mulatta* kidney epithelial cells (LLC-MK2; ATCC® CCL-7.1™) with [BEI Resources seed lot NRS-84 70020139 and incubating in Eagle’s Minimum Essential Medium (ATCC® 30-2003) supplemented with 2% fetal bovine serum, or equivalent supplemented with 2% fetal bovine serum (ATCC® 30-2020™) for 6 days at 37°C with 5% CO₂ to produce this lot.

Passage History:

Homo sapiens(4)SM(25)LLC-MK2(3)/LLC-MK2(5) (Prior to deposit at ATCC/BEI Resources); SM = suckling mouse; LLC-MK2 = *Macaca mulatta* kidney epithelial cells

Lot: 70079522

Manufacturing Date: 28OCT2025

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in LLC-MK2 Cells	Cell rounding and detachment	Cell rounding and detachment
Sequencing of Species-Specific Region Polyprotein gene (~ 880 nucleotides)	≥ 98% sequence identity with DEN-2, NGC (GenBank: KM204118)	99.7% sequence identity with DEN-2, NGC (GenBank: KM204118.1)
Titer by TCID₅₀ Assay in LLC-MK2 Cells by Immunofluorescent Antibody^{1,2} (9 days at 37°C with 5% CO ₂)	Report results	2.8 × 10 ⁶ TCID ₅₀ /mL
Sterility test (Bact/ALERT 3D) iAST bottle (aerobic) at 32.5°C, 14-day incubation iNST bottle (anaerobic) at 32.5°C, 14-day incubation	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.

²Using Mouse anti-Dengue Complex (Millipore Cat. No. MAB8705) and Goat anti-Mouse IgG FITC (Millipore Cat. No. AP124F)

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21 JAN 2026

Technical Manager or designee, ATCC Federal Solutions

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