

Rhinovirus A40, 1794

Catalog No. NR-56516

Product Description:

Rhinovirus A40, 1794 was isolated from human throat washings prior to 1965. NR-56516 lot 70051824 was produced by infecting *Homo sapiens* lung fibroblasts (WI-38; ATCC® CCL-75™) with Rhinovirus A40, 1794 and incubating in Eagle's Minimum Essential Medium (EMEM; ATCC® 30-2003™) supplemented with 2% fetal bovine serum (ATCC® 30-2020™) for 8 days at 33°C with 5% CO₂.

Passage History:

H(9)/WI(1) (Prior to deposit/BEI Resources); H = HeLa; WI = WI-38 cells

Lot: 70051824

Manufacturing Date: 01JUL2022

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in WI-38 Cells	Cell rounding and detachment	Cell rounding and detachment
Sequencing of Species-Specific Region Polyprotein (~ 910 nucleotides)	≥ 98% identity with Rhinovirus A40, 1794 (GenBank: FJ445129.1)	99.9% identity with Rhinovirus A40, 1794 (GenBank: FJ445129.1)
Titer by TCID₅₀ Assay in WI-38 Cells by Cytopathic Effect and Immunofluorescence^{1,2} (8 days at 33°C with 5% CO ₂)	Report results	1.4 × 10 ⁵ TCID ₅₀ per mL
Sterility (21-day incubation) Harpo's HTYE broth, 37°C and 26°C, aerobic ³ 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.

²Pan-enterovirus Reagent (Blend) (Light Diagnostics cat no. 3360)

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

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