

Rhinovirus A50, A2 #58

Catalog No. NR-56515

Product Description:

Rhinovirus A50, A2 #58 was isolated from human throat washings prior to 1965. NR-56515 lot 70051821 was produced by infecting *Homo sapiens* lung fibroblasts (WI-38; ATCC® CCL-75™) with Rhinovirus A50, A2 #58 (BEI Resources lot 224878) and incubating in Eagle's Minimum Essential Medium (EMEM; ATCC® 30-2003™) supplemented with 2% fetal bovine serum (ATCC® 30-2020™) for 6 days at 33°C with 5% CO₂. The harvested cells were freeze-thawed twice and recombined with the spin-clarified supernatant.

Passage History:

H(3)/H(7)WI(4)/WI(1) (Prior to deposit/Abbott Laboratories/BEI Resources); H = HeLa; WI = WI-38 cells

Lot: 70051821

Manufacturing Date: 04MAY2022

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in WI-38 Cells	Cell rounding and detachment	Cell rounding and detachment
Sequencing of Species-Specific Region Polyprotein (~ 900 nucleotides)	≥ 98% identity with RHV A50, A2 #58 (GenBank: FJ445135.1)	99.8% identity with RHV A50, A2 #58 (GenBank: FJ445135.1)
Titer by TCID₅₀ Assay in WI-38 Cells by Cytopathic Effect¹ (8 days at 33°C with 5% CO ₂)	Report results	5.0 × 10 ⁶ TCID ₅₀ per mL
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.

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