

Human Astrovirus Type 1, Oxford

Catalog No. NR-51388

Product Description:

Human astrovirus type 1 (HAstV1), Oxford was isolated from the stool of a human with acute gastroenteritis in Oxford, United Kingdom. NR-51388 lot 70060066 was produced by infecting human colon adenocarcinoma cells (CaCO-2; ATCC® HTB-37™) and incubating in Eagle's Minimum Essential Medium (ATCC® 30-2003™) supplemented with 1 µg/mL trypsin type IX-S for 2 days at 37°C with 5% CO₂.

Passage History:

Unknown/Caco-2(6) (Prior to deposit at BEI Resources/BEI Resources)

Lot: 70060066

Manufacturing Date: 05MAY2023

TEST	SPECIFICATIONS	RESULTS
Identification by Indirect Fluorescent Antibody (IFA) Assay¹	Fluorescence observed	Fluorescence observed
Sequencing of Species-Specific Region (~ 420 nucleotides)	≥ 98% identity with HAstV1, Oxford (GenBank: MK059949)	99.8% identity with HAstV1, Oxford (GenBank: MK059949)
Titer by TCID₅₀ Assay in Caco-2 Cells by Immunofluorescent Antibody^{1,2} (6 days at 37°C with 5% CO ₂)	Report results	1.6 × 10 ⁷ TCID ₅₀ /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

¹Using Astrovirus Type 2 primary antibody 8E7 (Invitrogen MA5-16293) and secondary antibody anti-mouse FITC (Light Diagnostics 5008)

²The 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.

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

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