

**Human Astrovirus Type 5, Oxford**

**Catalog No. NR-51392**

**Product Description:**

Human astrovirus type 5 (HAstV5), Oxford was isolated from the stool of a human with acute gastroenteritis in Oxford, United Kingdom. HAstV5, Oxford was grown in human colon adenocarcinoma cells (CaCO-2; ATCC® HTB-37™) in Eagle's Minimum Essential Medium (EMEM; ATCC® 30-2003) supplemented with 1 µg/mL trypsin type IX-S for 2 days at 37°C with 5% CO<sub>2</sub>. Virus was activated by incubating with 5 µg/mL trypsin type IX-S in EMEM for 30 minutes at 37°C before infecting the cells.

**Passage History:**

X(?)/C(3) (Prior to deposit /BEI Resources); X = Unknown; C = CaCO-2 cells

**Lot: 70029443**

**Manufacturing Date: 07NOV2019**

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in CaCO-2 Cells	Report results	Cell rounding and detachment
Identification by Indirect Fluorescent Antibody (IFA) Assay <sup>1</sup>	Fluorescence observed	Fluorescence observed
Sequencing of Species-Specific Region (~420 nucleotides)	≥ 98% identity with HAstV5, Oxford (GenBank: MK059953.1)	100% identity with HAstV5, Oxford (GenBank: MK059953.1)
Titer by TCID <sub>50</sub> Assay in CaCO-2 cells with IFA Readout <sup>1,2</sup>	Report results	2.8 × 10 <sup>8</sup> TCID <sub>50</sub> per mL after 6 days at 37°C and 5% CO <sub>2</sub>
Amplification of HAstV5 Capsid Sequence by RT-PCR	~ 450 base pair amplicon	~ 450 base pair amplicon
<b>Sterility (21-day incubation)</b> Harpo's HTYE broth, 37°C and 26°C, aerobic <sup>3</sup> 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 and 5% CO <sub>2</sub>	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
<b>Mycoplasma Contamination</b> 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

<sup>1</sup>Using monoclonal Astrovirus Type 1-5, Clone J12H (ThermoFisher Scientific™ MA5-18174)

<sup>2</sup>The Tissue Culture Infectious Dose 50% (TCID<sub>50</sub>) endpoint is the 50% infectious endpoint in cell culture. The TCID<sub>50</sub> 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% (LD<sub>50</sub>) is expected to kill half of the animals exposed. A reciprocal of the dilution required to yield the TCID<sub>50</sub> provides a measure of the titer (or infectivity) of a virus preparation.

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

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24 FEB 2020

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