

Human Parainfluenza Virus 4a, M-25

Catalog No. NR-3237

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Product Description: Basal Medium Eagle with 0.2% SV-5 rabbit antiserum harvested from cultures of rhesus monkey kidney cells infected with human parainfluenza virus 4a (HPIV-4a), M-25, with 10% sucrose gelatin added

Lot: V-324-001-010

Manufacturing Date: ~ 1969

TEST	SPECIFICATIONS	RESULTS (FEB 2012)
Infectivity in LLC-MK2 Cells by Direct Fluorescent Antibody Staining Readout ^{1,2}	Report results	Fluorescence observed
Sequencing of HPIV-3-Specific Sequence (806 nucleotides)	Report results	97% identity with HPIV-4a, M-25 (GenBank: AB543336)
Titer by TCID₅₀ Assay in Vero Cells with Direct Fluorescent Antibody Staining Readout ¹⁻⁴	Report results	1.6 x 10 ⁴ TCID ₅₀ per mL
Sterility (21-day incubation) Harpo's HTYE broth ⁵ , 37°C and 26°C, aerobic 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 ₂	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 Test Article nucleic acid	None detected None detected	None detected None detected

¹LLC-MK2 Rhesus Monkey Kidney (ATCC® CCL-7.1™)

²Using Light Diagnostics™ Parainfluenza 4 FITC Reagent (Millipore 5034)

³Grown in Eagle's Minimum Essential Medium containing Earle's Balanced Salt Solution, non-essential amino acids, 2 mM L-glutamine, 1 mM sodium pyruvate (ATCC® 30-2003) and 2% fetal bovine serum (ATCC® 30-2020) for 9 days at 36°C with 5% CO₂

⁴The Tissue Culture Infectious Dose 50% (TCID₅₀) 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.

⁵Atlas, Ronald M. Handbook of Microbiological Media. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

Date: 14 AUG 2012

Signature: *Dorothy C. Young*

Title: Technical Manager, BEI Authentication or designee

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