b|e|i RESOURCES
SUPPORTING INFECTIOUS DISEASE RESEARCH

Certificate of Analysis for NR-42515

Parainfluenza Virus 5, 21005-2WR (Tissue Culture Adapted) (formerly Simian Virus 5; formerly Parainfluenza Virus 2, SV-5)

Catalog No. NR-42515

This reagent is the property of the U. S. Government.

Product Description: Cell lysate and supernatant from rhesus monkey kidney epithelial cells[1] infected with tissue culture adapted parainfluenza virus 5, 21005-2WR

Lot[2,3]: 61389533 **Manufacturing Date: 19DEC2012**

TEST	SPECIFICATIONS	RESULTS
Identification by Infectivity in LLC-MK2 Cells[1]	Cell rounding and sloughing	Cell rounding and sloughing
Sequencing of Species-Specific Region (778 nucleotides)	Consistent with parainfluenza virus 5	97% identity with parainfluenza virus 5 (GenBank: AF052755)
Titer by $TCID_{50}$ Assay[4,5] in LLC-MK2 Cells[1]	Report results	8.9×10^4 $TCID_{50}$ per mL
Sterility (21-day incubation)		
Harpo's HTYE broth[6], 37°C and 26°C, aerobic	No growth	No growth
Trypticase soy broth, 37°C and 26°C, aerobic	No growth	No growth
Sabouraud broth, 37°C and 26°C, aerobic	No growth	No growth
Sheep blood agar, 37°C, aerobic	No growth	No growth
Sheep blood agar, 37°C, anaerobic	No growth	No growth
Thioglycollate broth, 37°C, anaerobic	No growth	No growth
DMEM with 10% FBS, 37°C and 5% CO_2	No growth	No growth
Mycoplasma Contamination		
Agar and broth culture (14-day incubation at 37°C)	None detected	None detected
DNA Detection by PCR of Test Article nucleic acid	None detected	None detected

[1]LLC-MK2 cells (ATCC® CCL-7.1™)
[2]Derived from NIAID Catalog No. V-322-011-000
[3]Grown in Eagle's Minimum Essential Medium (ATCC® 30-2003™) supplemented with 10% fetal bovine serum (ATCC® 30-2020™) for 5 days at 37°C and 5% CO_2
[4]The Tissue Culture Infectious Dose 50% ($TCID_{50}$) endpoint is the 50% infectious endpoint in cell culture. The $TCID_{50}$ 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_{50}) is expected to kill half of the animals exposed. A reciprocal of the dilution required to yield the $TCID_{50}$ provides a measure of the titer (or infectivity) of a virus preparation.
[5]5 days at 37°C and 5% CO_2
[6]Atlas, Ronald M. Handbook of Microbiological Media. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

Date: 19 JUN 2013 **Signature:** Michael R. Gyrla

Title: Technical Manager, BEI Authentication or designee

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