

Human Parainfluenza Virus 4B, 19503

Catalog No. NR-3238

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Contributor:

National Institutes of Allergy and Infectious Disease, National Institutes of Health

Manufacturer:

Lederle Laboratories, NIH-69-2043

Product Description:

Reagent: Seed Virus

Virus Classification: *Paramyxoviridae, Rubulavirus*

Agent: Human parainfluenza virus 4B

Strain/Isolate: 19503

NIAID Class: Research Reference Reagent

Donor: D. R. M. Chanock

Donor Passage History (# of passages):

Rhesus monkey kidney (6)

Producer Passage History (# of passages):

African green monkey kidney (8)

Note: BEI Resources was asked to distribute this virus preparation from NIAID's historical repository. Historical characterization information is shown below in the Functional Activity and Purity sections (tests performed in June 1971). Recent characterization information is shown on the Certificate of Analysis.

Material Provided/Storage:

Composition: Tissue culture media containing 0.5% lactal, 4% sorbitol, 4% N-Z amine, and antibiotics

Volume: 1.0 mL

Storage Temperature: -60°C or colder

Note: If homogeneity is required for your intended use, please purify prior to initiating work.

Functional Activity (June 1971):

Infectivity:

Conditions: African green monkey kidney

TCID₅₀: 1.0 × 10³ per mL

Purity (June 1971):

Serum Neutralization Breakthrough: Negative

Bacterial Sterility: Negative

Mycoplasma: Negative

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Human Parainfluenza Virus 4B, 19503, NR-3238."

Biosafety Level: 2

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see www.cdc.gov/biosafety/publications/bmb15/index.htm.

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References:

1. The Tissue Culture Infectious Dose 50% (TCID₅₀) endpoint is the 50% infectious endpoint in tissue culture. The TCID₅₀ is the dilution of virus that under the conditions of the assay can be expected to infect 50% of the cultures 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.

2. Canchola, J. G., et al. "Recovery and Identification of Human Myxoviruses." Bacteriol. Rev. 29 (1965): 496-503. PubMed: 4285160.
3. Aguilar, J. C., et al. "Detection and Identification of Human Parainfluenza Viruses 1, 2, 3, and 4 in Clinical Samples of Pediatric Patients by Multiplex Reverse Transcription-PCR." J. Clin. Microbiol. 38 (2000): 1191-1195. PubMed: 10699020.

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