

Echovirus 23, Williamson

Catalog No. NR-51429

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Lot (NIAID Catalog) No. V-056-001-019

For research use only. Not for human use.

Contributor:

National Institute of Allergy and Infectious Diseases (NIAID),
National Institutes of Health (NIH)

Manufacturer:

Southwest Foundation for Research and Education, under
contract PH-43-63-1177

Product Description:

Reagent: Seed Virus

Virus Classification: *Picornaviridae, Parechovirus*

Species: Human parechovirus type 2 (formerly echovirus 23)¹

Strain/Isolate: Williamson

NIAID Class: Research Reference Reagent

Source: Dr. Joseph L. Melnick, WHO International Reference
Centre for Enteroviruses

Donor Passage History (# of passages):

Not available

Producer Passage History (# of passages):

Baboon kidney cells (1)

Material Provided:

Composition: Baboon kidney cells infected with echovirus
23, Williamson in Melnick's Medium B

Volume: 1.0 mL

Packaging/Storage:

Packaging: Glass ampoule

Storage Temperature: -20°C or colder

Functional Activity:

Infectivity:

Conditions: Rhesus Monkey Kidney cells (RhMK)

TCID₅₀: 2 × 10⁵ per mL

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.

Date of Last Test: February 1976

Purity:

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:
Echovirus 23, Williamson, NR-51429."

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/bmbl5/index.htm.

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References:

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3. Sabin, A. B. "Properties and Behavior of Orally
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4. Wigand, R. and A. B. Sabin. "Properties of ECHO Types 22, 23, and 24 Viruses." Archiv. F. Virusforschung 11 (1961): 224-247. PubMed: 13785166.
 5. Melnick, J. L. "Enteroviruses." Ann. N. Y. Acad. Sci. 101 (1962): 331-342.
 6. Melnick, J. L., et al. "Classification of Human Enteroviruses." Virology 16 (1962): 501-504.
 7. Melnick, J. L., et al. "Picornaviruses: Classification of Nine New Types." Science 141 (1963): 153-154. PubMed: 13934731.
 8. Melnick, Joseph L., Herbert A Wenner and Leon Rosen. "The Enteroviruses." Diagnostic Procedures for Viral and Rickettsial Diseases, edited by E. H. Lennette and Schmidt, N. J., 3rd edition, New York City, American Public Health Association, 1964.

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