

Rhinovirus A50, A2 #58

Catalog No. NR-56515

For research use only. Not for use in humans.

Contributor:

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

Manufacturer:

BEI Resources

Product Description:

Virus Classification: *Picornaviridae, Enterovirus*

Species: Rhinovirus A50 (also referred to as Rhinovirus 50)

Strain/Isolate: A2 #58

Original Source: Rhinovirus A50, A2 #58 was isolated from human throat washings prior to 1965.^{1,2}

Comments: NR-56515 replaces NR-51455. Rhinovirus A50 (HRV), A2 #58 was prepared from a freeze-dried preparation of ATCC® VR-518™. The reconstituted material was treated to remove contaminating *Mycoplasma orale*. The complete genome of Rhinovirus A50, A2 #58 has been sequenced (GenBank: [FJ445135](https://www.ncbi.nlm.nih.gov/nuccore/FJ445135)).

Human rhinoviruses (HRV) are primarily inhabitants of the upper respiratory tract, traditionally associated with mild upper respiratory tract infections. Due to recent advances in identification, it has been shown that HRVs are involved in the development and exacerbation of respiratory diseases such as asthma, and are responsible for more severe disease states involving the lower respiratory tract in young children and in the immunosuppressed.³ None of the human rhinoviruses are known to be pathogenic in any animal.

Material Provided:

Each vial contains approximately 1.0 mL of cell lysate and supernatant from *Homo sapiens* lung fibroblasts (WI-38; ATCC® CCL-75™) infected with Rhinovirus A50, A2 #58.

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

Packaging/Storage:

NR-56515 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen and should be stored at -60°C or colder immediately upon arrival. For long-term storage, the vapor phase of a liquid nitrogen freezer is recommended. Freeze-thaw cycles should be avoided.

Growth Conditions:

Host: *Homo sapiens* lung fibroblasts (WI-38; ATCC® CCL-75™)

Growth Medium: Eagle's Minimum Essential Medium (EMEM; ATCC® 30-2003™) supplemented with 2% fetal bovine serum (ATCC® 30-2020™), or equivalent

Infection: Cells should be 70% to 80% confluent

Incubation: 6 to 8 days at 33°C and 5% CO₂, rocking

Cytopathic Effect: Cell rounding and sloughing

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Rhinovirus A50, A2 #58, NR-56515."

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. 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

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References:

1. Conant, R. M. and V. V. Hamparian, Personal Communication.

2. "Rhinoviruses: A Numbering System." Nature 213 (1967): 761-763. PubMed: 4291698.
3. McIntyre, C. L., N. J. Knowles and P. Simmonds. "Proposals for the Classification of Human Rhinovirus Species A, B and C into Genotypically Assigned Types." J. Gen. Virol. (2013): 1791-1806. PubMed: 23677786.

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