

## Rhinovirus A40, 1794

### Catalog No. NR-56516

**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 A40

Strain/Isolate: 1794

Original Source: Rhinovirus A40, 1794 was isolated from  
pediatric human throat washings prior to 1965.<sup>1</sup>

Comments: NR-56516 replaces NR-51453. Rhinovirus (HRV)  
A40, 1794 was prepared from a freeze-dried preparation.  
The complete genome of Rhinovirus A40, 1794 has been  
sequenced (GenBank: [FJ445129](https://www.ncbi.nlm.nih.gov/nuclseq/FJ445129)).

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.<sup>2,3</sup> 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 A40, 1794.

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

#### Packaging/Storage:

NR-56516 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% CO<sub>2</sub>, rocking

Cytopathic Effect: Cell rounding and sloughing

#### Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Rhinovirus A40, 1794, NR-56516."

#### 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/bmb15/index.htm](https://www.cdc.gov/biosafety/publications/bmb15/index.htm).

#### Disclaimers:

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#### References:

- Kapikian, A. Z., et al. "Rhinoviruses: A Numbering System." Nature 213 (1967): 761-762. PubMed: 4291698.
- Mufson, M. A., et al. "A Description of Six New Rhinoviruses of Human Origin." Am. J. Epidemiol. 81 (1965): 32-43. PubMed: 14246079.

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. 94 (2013): 1791-1806. PubMed: 23677786.

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