

Rhinovirus 20, 15-CV19

Catalog No. NR-56501

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Contributor:

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

Manufacturer:

BEI Resources

Product Description:

Virus Classification: *Picornaviridae, Enterovirus*

Species: Human Rhinovirus 20

Strain/Isolate: 15-CV19

Original Source: Human Rhinovirus (HRV) 20, 15-CV19 does not have a precise isolation history. The freeze-dried preparation used to produce this item was prepared by Abbott Laboratories prior to 1977.

Comments: NR-56501 replaces NR-51439. HRV 20, 15-CV19 was prepared from a freeze-dried preparation of NIAID V-135-002-021. The complete genome of Rhinovirus 20 has been sequenced (GenBank: [FJ445120](#)).

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 HRV is involved in the development and exacerbation of respiratory diseases such as asthma, and is responsible for more severe disease states involving the lower respiratory tract in young children and in the immunosuppressed.¹ 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 fibroblast cells (WI-38) infected with Rhinovirus 20, 15-CV19.

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

Packaging/Storage:

NR-56501 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 fibroblast cells (WI-38; ATCC® CCL-75™)

Growth Medium: Eagle's Minimum Essential Medium containing Earle's Balanced Salt Solution, non-essential

amino acids, 2 mM L-glutamine, 1 mM sodium pyruvate and 1.5 g/L of sodium bicarbonate supplemented with 2% fetal bovine serum, or equivalent

Infection: Cells should be 70% to 80% confluent

Incubation: 4 to 6 days at 33°C and 5% CO₂

Cytopathic Effect: Cell rounding and sloughing

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Rhinovirus 20, 15-CV19, NR-56501."

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 \(BMBL\)](#), 6th ed. Washington, DC: U.S. Government Printing Office, 2020.

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References:

1. 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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