



# Human respiratory syncytial virus

VR-1580™

## Description

Human respiratory syncytial virus strain 18537 is propagated in HEp-2 cells (ATCC CCL-23). This strain was isolated in 1962 from the respiratory secretions of a child with acute respiratory disease seen at Children's National Hospital in Washington, DC, and was deposited by the National Institute of Allergy and Infectious Diseases (NIAID). It has applications in respiratory disease research.

**Strain designation:** 18537

**Deposited As:** Respiratory syncytial virus

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## Storage Conditions

**Product format:** Frozen

**Storage conditions:** -70°C or colder

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## Intended Use

This product is intended for laboratory research use only. It is not intended for any animal or human therapeutic use, any human or animal consumption, or any diagnostic use.

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## BSL 2

ATCC determines the biosafety level of a material based on our risk assessment as guided by the current edition of *Biosafety in Microbiological and Biomedical Laboratories (BMBL)*, U.S. Department of Health and Human Services. It is your responsibility to understand the hazards associated with the material per your organization's policies

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## Human respiratory syncytial virus

VR-1580

and procedures as well as any other applicable regulations as enforced by your local or national agencies.

ATCC highly recommends that appropriate personal protective equipment is always used when handling vials. For cultures that require storage in liquid nitrogen, it is important to note that some vials may leak when submerged in liquid nitrogen and will slowly fill with liquid nitrogen. Upon thawing, the conversion of the liquid nitrogen back to its gas phase may result in the vial exploding or blowing off its cap with dangerous force creating flying debris. Unless necessary, ATCC recommends that these cultures be stored in the vapor phase of liquid nitrogen rather than submerged in liquid nitrogen.

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### Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at [www.atcc.org](http://www.atcc.org).

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### Growth Conditions

**Host:** HEp-2 (ATCC CCL-23)

**Effects:** CPE; cell sloughing; syncytia

**Complete medium:**

EMEM (ATCC 30-2003) + 2 % FBS (ATCC 30-2020)

**Temperature:** 37°C

**Atmosphere:** 95% Air, 5% CO<sub>2</sub>

**Recommendations for infection:** Plate cells 24-48 hours prior to infection and infect when cultures are 70-90% confluent. Remove medium and inoculate with a small volume of virus (e.g. 1 mL per 25 cm<sup>2</sup>) diluted to provide an optimal MOI (e.g. 0.1). Adsorb 1-2 hours at 37°C in a humidified 5% CO<sub>2</sub> atmosphere, rocking every 20-30 minutes to redistribute inoculum. End adsorption by adding virus growth medium.

# Human respiratory syncytial virus

VR-1580

**Incubation:** 3-7 days

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## Handling Procedures

**Mycoplasma contamination:** Not detected

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## Notes

ATCC VR-1580 was prepared at ATCC by treating ATCC VR-1401 with Mycoplasma Removal Agent (MRA, MP Biomedicals catalog # 3050044) and verified that mycoplasma could no longer be detected in the progeny virus.

**Key Abbreviations:** °C, Degrees Celsius; CPE, Cytopathic effect; CO<sub>2</sub>, Carbon dioxide; EMEM, Eagle's Minimum Essential Medium; FBS, Fetal bovine serum

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## Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: Human respiratory syncytial virus (ATCC VR-1580)

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## References

References and other information relating to this material are available at [www.atcc.org](http://www.atcc.org).

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## Human respiratory syncytial virus

VR-1580

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## Human respiratory syncytial virus

VR-1580

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