



VR-1377

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Description

Human parainfluenza virus 4b strain CH 19503 was isolated from a child with a respiratory tract infection in Washington, DC, and was deposited by the Centers for Disease Control and Prevention. This animal virus can be propagated in NCI-H292 [H292] cells (ATCC CRL-1848) and has applications in infectious disease and respiratory disease research.

Strain designation: CH 19503

Deposited As: Parainfluenza 4b

Storage Conditions

Product format: Frozen

Storage conditions: -70°C or colder

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.

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 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 submersed 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 submersed in liquid nitrogen.

Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at www.atcc.org.

Growth Conditions

Host: NCI-H292 [H292] (ATCC CRL-1848)

Effects: CPE; cell clustering; cell degeneration; cell sloughing

Complete medium:

RPMI-1640 (ATCC 30-2001) + 1.5 µg/mL Trypsin

Temperature: 37°C

Atmosphere: 95% Air, 5% CO₂

Recommendations for infection: Plate cells 24-48 hours prior to infection and infect when cultures are 80-90% confluent. Remove medium and inoculate with a small volume of virus (e.g. 1 mL per 25 cm²) diluted to provide an optimal MOI (e.g. 0.1). Adsorb 1-2 hours at 37°C in a humidified 5% CO₂ atmosphere while rocking continuously. End adsorption by adding virus growth medium.

Incubation: 6-11 days

Handling Procedures

Mycoplasma contamination: Not detected

Notes

After adsorbing virus, feed with medium containing trypsin but NO serum.

Key Abbreviations: °C, Degrees Celsius; CO₂, Carbon dioxide; CPE, Cytopathic effect

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: VR-1377 (ATCC VR-1377)

References

References and other information relating to this material are available at www.atcc.org.

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