Human respiratory syncytial virus

VR-1540™

Description

Human respiratory syncytial virus strain A2 is propagated in HEp-2 cells (ATCC CCL-23). This strain was isolated in 1961 from the lower respiratory tract of an infant with bronchiolitis and bronchopneumonia in Melbourne, Australia. It has applications in respiratory disease research.

Strain designation: A2

Deposited As: Respiratory syncytial virus

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: HEp-2 (ATCC CCL-23)
Effects: CPE; syncytia formation; cell rounding; cell sloughing
Complete medium: EMEM (ATCC 30-2003) + 2% FBS (ATCC 30-2020)
Temperature: 37°C
Recommendations for infection: For best results, infection should be performed on an 80-90% confluent, 18-48 hour old cellular monolayer. Prepare dilution of virus in minimum amount of volume (e.g. 1 mL per 25 cm^2). Wash monolayer with PBS or serum free medium prior to inoculation. Adsorb virus dilution for 1-2 hours at 37°C in a humidified 5% CO_2 atmosphere, rocking every 20-30 minutes to redistribute inoculum. End adsorption by adding virus growth medium.
Incubation: 3-7 days at 37°C in a humidified 5% CO_2 atmosphere, until CPE is progressed through 80% of the monolayer.

Handling Procedures

Mycoplasma contamination: Not detected

Notes

ATCC VR-1540 was prepared from ATCC VR-1302 by growth in the presence of neutralizing serum to remove contaminating Human adenovirus 1.

Key Abbreviations: °C, Degrees Celsius; CO_2, Carbon dioxide; CPE, Cytopathic effect; EMEM, Eagle's Minimum Essential Medium; FBS, Fetal bovine serum; MOI, Multiplicity of infection; PBS, Phosphate-buffered saline

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-1540)

References

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

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Revision

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