Human respiratory syncytial virus, High titer

VR-1580PQ™

Description

Human respiratory syncytial virus strain 18537 is a high-titer preparation that 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 Hospital in Washington, DC, and was deposited by the National Institute of Allergy and Infectious Diseases (NIAID). It has applications in virucide testing, respiratory research, assay development and vaccine development.

Strain designation: 18537
Deposited As: Respiratory syncytial virus
Shipping information:

Titer and genome copy number reported on Certificate of Analysis

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; cell rounding; cell sloughing; syncytia
Complete medium:
EMEM (ATCC 30-2003) + 2% FBS (ATCC 30-2020)
Temperature: 37°C
Atmosphere: 95% Air, 5% CO_2
Recommendations for infection: Plate cells 24-48 hours prior to infection and infect

when cultures are 70-85% confluent. Remove medium and inoculate with a small volume of virus (e.g. 1 mL per 25 cm^2) diluted to provide an optimal MOI (e.g. 0.01 to 0.1). Adsorb 1-2 hours at 37°C in a humidified 5% CO_2 atmosphere. End adsorption by adding virus growth medium.
Incubation: 3-10 days at 37°C in a humidified 5% CO_2 atmosphere, until CPE is progressed through 80% of the monolayer.

Notes

ATCC VR-1580PQ is a high-titer, live virus suspended in 50 mM Tris-HCl + 150 mM NaCl + 1 mM EDTA + dH_2O. This product was prepared from ATCC VR-1580 via concentration through a sucrose cushion.

The early passage history of this item is unknown.
Key Abbreviations: °C, Degrees Celsius; CO_2, Carbon dioxide; EDTA, Disodium ethylene-diaminetetraacetate; EMEM, Eagle's Minimum Essential Medium; FBS, Fetal bovine serum; MOI, Multiplicity of infection

Material Citation

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

References

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

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Revision

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