Human parainfluenza virus 1

VR-94™

Description

Human parainfluenza virus 1 strain C35 is propagated in LLC-MK2 Derivative cells (ATCC CCL-7.1). This strain was isolated in 1957 from the throat swab of a 3-year-old human male with acute laryngitis in Washinton, DC. This product is whole-genome sequenced and has applications in respiratory disease research.

Strain designation: C35

Deposited As: Parainfluenza 1

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: LLC-MK2 Derivative (ATCC CCL-7.1)
Effects: cell rounding; cell sloughing; CPE
Complete medium:
EMEM (ATCC 30-2003) + 1 µg/mL Gibco Trypsin (catalog # 27250018)
Temperature: 37°C
Atmosphere: 95% Air, 5% CO_2
Recommendations for infection: For best results, infection should be performed on a 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: 5-7 days

continuously rocking at 37°C in a humidified 5% CO_2 atmosphere.
Incubation: 5-7 days continuously rocking at 37°C in a humidified 5% CO_2 atmosphere.

Handling Procedures

Mycoplasma contamination: Not detected

Notes

Addition of 1 µg/mL trypsin (1:250 Gibco trypsin catalog #27250018) to culture medium is required for optimal growth. Based on electron microscopic evidence, this product may also contain an as yet unidentified polyoma virus.

Virus presence can be detected with Millipore #5019 Parainfluenza 1 Antibody FITC Reagent
Key Abbreviations: °C, Degrees Celsius; CO_2, Carbon dioxide; CPE, Cytopathic effect; EMEM, Eagle's Minimum Essential Medium

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: Human parainfluenza virus 1 (ATCC VR-94)

References

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

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