Influenza A virus (H3N2)

VR-1680™

Description

Influenza A virus (H3N2) strain A/Aichi/2/68 is propagated in MDCK (NBL-2) cells (ATCC CCL-34). This strain was isolated in 1968 from a sailor on an Israeli ship docking in Aichi, Japan, and was deposited by the Centers for Disease Control and Prevention. It can be used in respiratory disease and influenza research.

Strain designation: A/Aichi/2/68

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: MDCK (NBL-2) (ATCC CCL-34)
Effects: CPE; cell degeneration; cell rounding
Complete medium:
EMEM (ATCC 30-2003) + 10 mM HEPES + 0.125% BSA fraction V + 1 µg/mL TPCK-treated Trypsin
Temperature: 35°C
Atmosphere: 95% Air, 5% CO_2
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 cm^2) diluted to provide an optimal MOI (e.g. 0.1). Adsorb 1-2 hours at 35°C in a humidified 5% CO_2 atmosphere, rocking every 20-30 minutes to redistribute inoculum. End adsorption by adding virus growth medium.
Incubation: 2-4 days

Handling Procedures

Mycoplasma contamination: Not detected

Notes

Key Abbreviations: °C, Degrees Celsius; BSA, Bovine serum albumin; CO_2, Carbon dioxide; CPE, Cytopathic effect; EMEM, Eagle's Minimum Essential Medium; HEPES, N-(2-Hydroxyethyl)piperazine-N'-(2-ethanesulfonic acid); MOI, Multiplicity of infection; TPCK, L-1-tosylamido-2-phenylethyl chloromethyl ketone

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: Influenza A virus (H3N2) (ATCC VR-1680)

References

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

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Revision

This information on this document was last updated on 2024-05-18

Contact Information

ATCC
10801 University Boulevard
Manassas, VA 20110-2209
USA
US telephone: 800-638-6597
Worldwide telephone: +1-703-365-2700
Email: tech@atcc.org or contact your local distributor