



Influenza A virus (H1N1)

VR-1987™

Description

Influenza A virus (H1N1) strain A/Washington/10/2008 is cultured in MDCK (NBL-2) cells (ATCC CCL-34). This virus was isolated from a human in Washington, United States, in 2008.

Strain designation: A/Washington/10/2008

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.

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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 rounding; cell degeneration; cell sloughing; cell detachment

Complete medium: EMEM (ATCC 30-2003) + 10 mM HEPES (Gibco 15630-080) + 0.125% BSA Fraction V (Gibco 15260-037) + 10 BAEE/mL Trypsin, TPCK Treated (MilliporeSigma T1426)

Temperature: 35°C

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. 0.01). Adsorb 1-2 hours at 35°C in a humidified 5% CO₂ atmosphere. End adsorption by adding virus growth medium.

Incubation: 2-3 days at 35°C in a humidified 5% CO₂ atmosphere, until CPE is progressed through 70-90% of the monolayer.

Notes

This virus is an Antiviral Resistance (AVR) Reference Virus that contains an asparagine at position 31 in the matrix 2 (M2) protein (M2:S31N), a known marker of resistance to adamantanes (amantadine and rimantadine).

The neuraminidase (NA) protein contains no known markers of resistance to neuraminidase inhibitors, zanamivir and oseltamivir.

Key Abbreviations: °C, Degrees Celsius; CO₂, Carbon dioxide; EMEM, Eagle's Minimum Essential Medium; MOI, Multiplicity of infection

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: Influenza A virus (H1N1) (ATCC VR-1987)

References

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

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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
