ATCC

Product Sheet

Influenza A virus (H1N1) (ATCC® VR-1682™)

Please read this FIRST

Storage Temp.
-70°C or colder

Biosafety Level
2

Intended Use

This product is intended for research use only. It is not intended for any animal or human therapeutic or diagnostic use.

Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: Influenza A virus (H1N1) (ATCC® VR-1682™)

American Type Culture Collection
PO Box 1549
Manassas, VA 20108 USA
www.atcc.org

800.638.6597 or 703.365.2700
Fax: 703.365.2750
Email: Tech@atcc.org

Or contact your local distributor

Description

Strain: A/Swine/1976/31 (TC-adapted)
Classification: *Orthomyxoviridae, Influenzavirus A*
Original Source:
Hog in Iowa, 1931.
Depositor: M.T. Coleman and ATCC

Batch-Specific Information

Refer to the Certificate of Analysis for batch-specific test results.

Propagation

Propagation Host:
Production Host: MDCK (ATCC CCL-34)
Alternate Hosts: Chicken embryo; MDCK and monkey kidney cells (MkK)
Recommended Host: MDCK (ATCC® CCL-34)

Effect on Host:
CPE (cell rounding, degeneration, sloughing)
CPE (cell rounding, degeneration, sloughing)

Medium:
Virus growth medium: EMEM (ATCC® 30-2003) + BSA (Invitrogen 15260-037) + HEPES (Gibco 15630-106) + Trypsin [TPCK Treated] (USB 22725)

Growth Conditions
For best results, plate cells 24-48 hours in advance. Infect at 80%-90% confluent (not 100% confluent) using a multiplicity of infection (MOI) of 0.01 to 1.0. Incubate at 35.0°C in a humidified, 5% CO2 atmosphere for 2-4 days, until CPE are well advanced in 100% of the culture. In TC, ATCC VR-1682 should be grown in serum free media that contains 1 ug/ml TPCK-treated trypsin, 0.125% BSA and 1% HEPES (1 molar stock).

Comments

Derived by adaptation of egg-passage A/Swine/1976/31 (ATCC® VR-99) to MDCK (ATCC® CCL-34) cells. (Note: ATCC® VR-99 and ATCC® VR-1682 have not been compared with respect to sequence or infectivity in chick embryo and tissue culture).

References

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

Key Abbreviations

BSA, bovine serum albumin
CE, chicken embryo
CO_2 (CO2), carbon dioxide
CPE, cytopathic effect
EMEM, Eagles minimum essential medium
HEPES, N-2-Hydroxyethylpiperazine-N-2-Ethane Sulfonic acid
MDCK, Madin-Darby canine kidney cells
mg (ug), microgram
mg, milligram
MkK, monkey kidney cells
mL, milliliter
RBC, red blood cells
TC, tissue culture
TPCK, 1(Tosylamide-2 phenyl) ethyl chloromethyl
ketone
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Biosafety Level: 2

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the current publication of the *Biosafety in Microbiological and Biomedical Laboratories* from the U.S. Department of Health and Human Services Centers for Disease Control and Prevention and National Institutes for Health.

ATCC Warranty

The viability of ATCC® products is warranted for 30 days from the date of shipment, and is valid only if the product is stored and cultured according to the information included on this product information sheet. ATCC lists the media formulation that has been found to be effective for this strain. While other, unspecified media may also produce satisfactory results, a change in media or the absence of an additive from the ATCC recommended media may affect recovery, growth and/or function of this strain. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

Disclaimers

This product is intended for laboratory research purposes only. It is not intended for use in humans.

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This product is sent with the condition that you are responsible for its safe storage, handling, and use. ATCC is not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to insure authenticity and reliability of strains on deposit, ATCC is not liable for damages arising from the misidentification or misrepresentation of cultures.

Please see the enclosed Material Transfer Agreement (MTA) for further details regarding the use of this product. The MTA is also available on our Web site at www.atcc.org

Additional information on this culture is available on the ATCC web site at www.atcc.org.

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