ATCC

Product Sheet

Chlamydophila pneumoniae (ATCC® VR-2282™)

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: *Chlamydophila pneumoniae* (ATCC® VR-2282™)

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: TWAR strain TW-183
Classification: *Chlamydiaceae, Chlamydophila*
Original Source:
conjunctiva of a child, Taiwan, 1965
Depositor: G Galloway, T Grayston

Batch-Specific Information

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

Propagation

Propagation Host:
HEp-2 cells (ATCC CCL-23)
chicken embryo; HeLa 229 cells (ATCC CCL-2.1)

Effect on Host:
Intracellular inclusion bodies visualized by fluorescent staining with genus or species specific monoclonal antibodies
Intracellular inclusion bodies visualized by fluorescent staining with genus or species specific conjugated antibodies

Medium:
Agent growth medium: DMEM + 10% prescreened FBS + 10mM HEPES + 2µg/mL Cycloheximide (Sigma C-4859 Ready-Made)

Growth Conditions
Atmosphere: 5% CO_2 in air recommended
Temperature: 35°C
Incubation: 3 days at 35°C

Comments

Note that activities with high potential for aerosol production require BSL 3 facilities and practices. This preparation has tested positive for Mycoplasma contamination. For a time, prior to the acceptance of the *C. pneumoniae* strains as a separate species, the strains were referred to as TWAR, after the isolates TW-183 and AR-39. AR-39 is available as ATCC® 53592. The inclusions are iodine stain negative (contain no glycogen). Suggested protocol for propagation: Add glassbeads and vortex preparation to disrupt cells. Infect monolayer with disrupted material. Centrifuge at 3000 x rpm (750 x *g*) for 1 hour. Feed with fresh growth medium containing FBS prescreened for Chlamydia antibodies and 1-2 mg/mL cycloheximide. Incubate at 35°C for 3 days. Infection of TC is enhanced by subconfluent monolayer of cells. This preparation has been tested and found to be positive for Mycoplasma contamination.

References

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

Key Abbreviations

AR-39, TWAR Chlamydia strain
BSL, Biosafety Level
CDC, Centers for Disease Control and Prevention
CE, chicken embryo
CO_2 (CO2), carbon dioxide
DMEM, Dulbeccos Modified Eagles Medium
FA, fluorescent antibody
FBS, fetal bovine serum
g, acceleration of gravity
HeLa, human cervical carcinoma cells
HEp-2, human laryngeal tumor cells
HEPES, N-(2-Hydroxyethyl)piperazine-N-(2-ethanesulfonic acid)

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M, Molar
MAB, monoclonal antibody
mg(ug), microgram
mM(uM), micromolar
mg, milligram
mL, milliliter
mM, millimolar
rpm, revolutions per minute
SMM, special maintenance medium
TC, tissue culture
$TCID_{50}$ (TCID[50]), The Tissue Culture Infectious Dose
50% endpoint is the 50% infectious endpoint in cell culture. The $TCID_{50}$ is the dilution of agent that under the conditions of the assay can be expected to infect 50% of the culture vessels inoculated, just as a Lethal Dose 50% (LD_{50}) is expected to kill half of the animals exposed. A reciprocal of the dilution required to yield the $TCID_{50}$ provides a measure of the titer (or infectivity) of an agent preparation.
TW-183, TWAR Chlamydia strain
TWAR, Taiwan Acute Respiratory

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.

While ATCC uses reasonable efforts to include accurate and up-to-date information on this product sheet, ATCC makes no warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. ATCC does not warrant that such information has been confirmed to be accurate.

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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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