ATCC

Product Sheet

Chlamydophila pneumoniae (ATCC® VR-1355™)

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-1355™)

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 2043
Classification: *Chlamydiaceae, Chlamydophila*
Original Source: Nasopharynx of human patient with pneumonia
Depositor: MR Hammerschlag

Batch-Specific Information

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

Propagation

Propagation Host:
HEp-2 cells (ATCC® CCL-23™)

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

Medium:
DMEM + 10% prescreened FBS + 10 mM HEPES + 2 µg/mL Ready-Made Cycloheximide (Sigma C-4859 100 mg/mL)

Growth Conditions
Temperature: 35°C
Incubation: 3 days at 35°C, a 5% CO_2 in air atmosphere is recommended
Recommendations for Infection: For best results cells should be 24 to 48 hours old and 90% - 100% confluent.

Comments

Note that activities with high potential for aerosol production require BSL 3 facilities and practices. This preparation has tested positive for Mycoplasma contamination. Forms intracellular inclusions which react with specific anti-C. pneumoniae monoclonal antibodies directed against the chlamydia LPS. Will not stain with iodine or monoclonal antibodies against the MOMP of C. trachomatis. Suggested protocol for preparation: Add glass beads 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 or pretested against having Chlamydia antibodies and 1-2 µg/mL cycloheximide. Incubate at 35°C for 3 days, a 5% CO_2 in air atmosphere is recommended.

References

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

Key Abbreviations

°C, degrees Celsius
CDC, Centers for Disease Control and Prevention
CE, chicken embryo
CO_2 (CO2), carbon dioxide
DMEM, Dulbeccos Minimum Essential Medium
FA, fluorescent antibody
FBS, fetal bovine serum
g, acceleration due to gravity
HEp-2, human laryngeal tumor cells
HEPES, N-(2-Hydroxyethyl)piperazine-N-(2-ethanesulfonic acid)
hr, hour
LPS, lipopolysaccharide
M, molar
MAB, monoclonal antibody
µg (ug), microgram
µM (uM), micromolar

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mg, milligram
mL, milliliter
mM, millimolar
MOMP, major outer membrane protein
RPM, revolutions per minute

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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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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