ATCC

Product Sheet

Chlamydophila pneumoniae (Grayston et al.) Everett et al. (ATCC® VR-1452™)

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* (Grayston et al.) Everett et al. (ATCC® VR-1452™)

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: AO3
Classification: *Chlamydiaceae, Chlamydophila*
Original Source: Coronary atheroma of human with athcroslerosis
Depositor: JT Summersgill

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 monoclonal antibodies.

Medium:
DMEM (ATCC® 30-2002™) + 10% prescreened FBS + 10 mM HEPES + 2 mg/mL Cycloheximide (Sigma C-4859 Ready-Made)

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

Comments

FBS used to culture *Chlamydia* must be prescreened to verify that the serum does not contain antibodies to *Chlamydia* or other factors that would interfere with growth.

First coronary isolace of *Chlamydia pneumoniae*. Note that activities with high potential for aerosol production require BSL 3 facilities and practices. 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 1-2µg/mL cycloheximide. Incubate at 35°C for 3 days, a 5% CO_2 in air atmosphere is recommended. This preparation has tested positive for *Mycoplasma hominis*.

References

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

Key Abbreviations

BSL, Biosafety Level
CDC, Centers for Disease Control and Prevention
CO_2 (CO2), carbon dioxide
DMEM, Dulbeccos Modified Eagles Medium
FA, fluorescent antibody
FBS, fetal bovine serum
g, acceleration of gravity
HEp-2, human laryngeal tumor cells
HEPES, N-(2-Hydroxyethyl)piperazine-N-(2-ethanesulfonic acid)
mg (ug), microgram
mL, milliliter
mM, millimolar
rpm, revolutions per minute
SMM, special maintenance medium
TC, tissue culture

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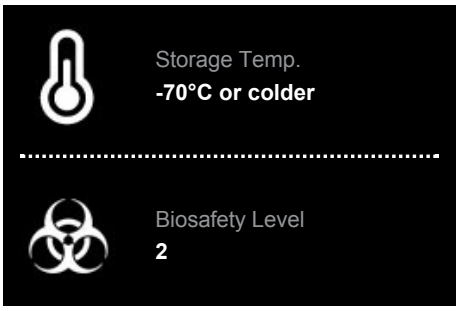

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$TCID_{50}$ (TCID[50]), The Tissue Culture Infectious Dose 50% endpoint is the 50% infectious endpoint in cell culture. The $TCID_{50}$ is the dilution of agent that under the conditions of the assay can be expected to infect 50% of the culture vessels 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.

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

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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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