





Product Sheet

Chlamydomonas *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: *Chlamydomonas 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*, *Chlamydomonas*

Original Source: Coronary atheroma of human with atherosclerosis

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% CO₂ in air atmosphere is recommended

Comments

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

First coronary isolate of *Chlamydomonas 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 *Chlamydomonas* antibodies and 1-2µg/mL cycloheximide. Incubate at 35°C for 3 days, a 5% CO₂ 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

CO₂ (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 (µg), microgram

mL, milliliter

mM, millimolar

rpm, revolutions per minute

SMM, special maintenance medium

TC, tissue culture

TCID₅₀ (TCID[50]), The Tissue Culture Infectious Dose


50% endpoint is the 50% infectious endpoint in cell culture. The TCID₅₀ is the dilution of agent that under the




Product Sheet

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

conditions of the assay can be expected to infect 50% of the culture vessels inoculated, just as a Lethal Dose 50% (LD₅₀) is expected to kill half of the animals exposed. A reciprocal of the dilution required to yield the TCID₅₀ 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

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.

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.

© ATCC 2013. All rights reserved. ATCC is a registered trademark of the American Type Culture Collection. [08/12]

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