



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™)

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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



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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.

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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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