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
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Manassas, VA 20108 USA
www.atcc.org

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*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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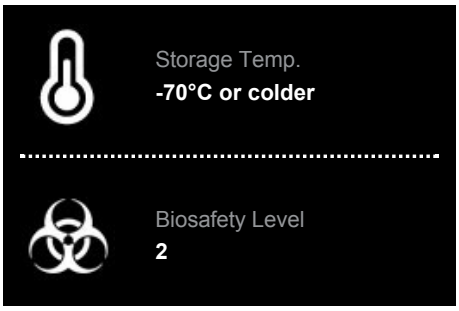


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$TCID_{50}$ (TCID[50]), The Tissue Culture Infectious Dose 50% endpoint is the 50% infectious endpoint in cell culture. The $TCID_{50}$ is the dilution of agent that under the conditions of the assay can be expected to infect 50% of the culture vessels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

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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