



Product Sheet

# *Chlamydomophila pneumoniae* (Grayston et al.) Everett et al. (ATCC® VR-1435™)

Please read this **FIRST**

Storage Temp.  
**-70°C or colder**

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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: *Chlamydomophila pneumoniae* (Grayston et al.) Everett et al. (ATCC® VR-1435™)

## Description

**Strain:** J-21

**Classification:** *Chlamydiaceae, Chlamydomophila*

**Original Source:** Throat culture of 12-year-old boy in Japan with pneumonia

**Depositor:** N Tsumura

## 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 (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<sub>2</sub> in air atmosphere is recommended

## Comments

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

Note that activities with high potential for aerosol production require BSL 3 facilities and practices. Rapid loss in titer when stored above -70°C. Suggested protocol for propagation: 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 for *Chlamydomophila* antibodies and 1-2 mg/mL Cycloheximide. Incubate at 35°C for 3 days, a 5% CO<sub>2</sub> in air atmosphere is recommended. This preparation has tested positive for Mycoplasma contamination.

## References

References and other information relating to this product are available online at [www.atcc.org](http://www.atcc.org).

## Key Abbreviations

°C (C), degree Celsius

BSL, Biosafety Level

CO<sub>2</sub> (CO2), carbon dioxide

DMEM, Dulbecco's Modified Eagles Medium

FA, fluorescent antibody

FBS, fetal bovine serum

g, acceleration of gravity

HEPES, N-(2-Hydroxyethyl)piperazine-N'-(2-ethanesulfonic acid)

## 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

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Product Sheet


***Chlamydomophila***  
***pneumoniae* (Grayston et**  
**al.) Everett et al. (ATCC® VR-**  
**1435™)**

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Additional information on this culture is available on the ATCC web site at [www.atcc.org](http://www.atcc.org).

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