



Product Sheet

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

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: *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% CO₂ 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% CO₂ 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.

Key Abbreviations

°C (C), degree Celsius

BSL, Biosafety Level

CO₂ (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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Additional information on this culture is available on the ATCC web site at www.atcc.org.

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