




Product Sheet


# *Chlamydomphila pneumoniae* (ATCC® VR-2282™)

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: *Chlamydomphila pneumoniae* (ATCC® VR-2282™)

American Type Culture Collection  
PO Box 1549  
Manassas, VA 20108 USA  
[www.atcc.org](http://www.atcc.org)

800.638.6597 or 703.365.2700  
Fax: 703.365.2750  
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## Description

**Strain:** TWAR strain TW-183  
**Classification:** *Chlamydiaceae*, *Chlamydomphila*  
**Original Source:** Conjunctiva of a child, Taiwan, 1965  
**Depositor:** G Galloway, T Grayston

## 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 + 10% prescreened FBS + 10mM HEPES + 2 µg/mL Cycloheximide (Sigma C-4859 Ready-Made)

### Growth Conditions

**Recommendations for Infection:** For best results cells should be 24 to 48 hours old and 90% - 100% confluent

**Incubation:** 3 days at 35°C, a 5% CO<sub>2</sub> in air atmosphere is recommended

## Comments

Note that activities with high potential for aerosol production require BSL 3 facilities and practices. This preparation has tested positive for Mycoplasma contamination. For a time, prior to the acceptance of the *C. pneumoniae* strains as a separate species, the strains were referred to as TWAR, after the isolates TW-183 and AR-39. AR-39 is available as ATCC® 53592™. The inclusions are iodine stain negative (contain no glycogen). Suggested protocol for propagation: Add glassbeads 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 Chlamydia antibodies and 1-2 µg/mL cycloheximide. Incubate at 35°C for 3 days. Infection of TC is enhanced by subconfluent monolayer of cells. This preparation has been tested and found to be 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 degrees Celsius  
AR-39, TWAR Chlamydia strain  
CO<sub>2</sub> (CO<sub>2</sub>), carbon dioxide  
DMEM, Dulbeccos Modified Eagles Medium  
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  
mM(µM), micromolar  
mg, milligram  
mL, milliliter  
mM, millimolar  
rpm, revolutions per minute  
TW-183, TWAR Chlamydia strain  
TWAR, Taiwan Acute Respiratory



## Biosafety Level: 2



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***Chlamydomphila***  
***pneumoniae*** (ATCC® VR-  
2282™)

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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](http://www.atcc.org)

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

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