



Product Sheet

# *Chlamydomphila pneumoniae* (ATCC® 53592™)

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® 53592™)

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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Or contact your local distributor

## Description

**Strain:** AR-39

**Classification:** *Chlamydiaceae*, *Chlamydomphila*

**Original Source:** Throat of university student with acute pharyngitis, Seattle, WA, 1983

**Depositor:** Washington Research Foundation

## Batch-Specific Information

Refer to the Certificate of Analysis for batch-specific test results.

## Propagation

### Propagation Host:

HEp-2 (ATCC® CCL-23™)

### Effect on Host:

Intracellular inclusion bodies visualized by fluorescent staining with genus or species specific monoclonal antibodies or Giemsa.

**Medium:** DMEM (ATCC® 30-2002™) + 10% prescreened FBS + 10 mM HEPES + 2 µg/mL cycloheximide

### Growth Conditions

**Temperature:** 35°C

**Recommendations for Infection:** Plate cells 24 hours prior to infection and infect when cultures are 80-90% confluent. Sonicate inoculum for 20 seconds at approximately 240W to disrupt cells. Remove cell growth medium and inoculate with disrupted material. Centrifuge at 1500 x g at 25°C for 1 hour. End adsorption by adding agent growth medium. Incubate infected culture in a humidified 5% CO<sub>2</sub> atmosphere.

**Incubation:** 3 days

## Comments

Note that activities with high potential for aerosol production require BSL 3 facilities and practices.

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 or pretested against having Chlamydia antibodies and 2 g/mL cycloheximide. Incubate at 35°C for 3 days.

Activities with high potential for aerosol production requires Biosafety Level 3 facilities and practices.

The inclusions are iodine stain negative (contain no glycogen). The TWAR strains of Chlamydia are named after TW183 and AR39. This material is cited in a U.S. and/or other Patent Applications and may not be used to infringe the patent claims.

## 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

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

DMEM, Dulbecco's Modified Eagles' Medium

FBS, fetal bovine serum

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



Product Sheet

***Chlamydomophila***  
***pneumoniae*** (ATCC®  
53592™)

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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**

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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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