




Product Sheet


# *Chlamydia suis* Everett et al. (ATCC® VR-1474™)

Please read this FIRST



Storage Temp.  
**Vapor phase of liquid nitrogen**

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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: *Chlamydia suis* Everett et al. (ATCC® VR-1474™)

American Type Culture Collection  
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Manassas, VA 20108 USA  
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## Description

**Strain:** S45 (porcine isolate)  
**Classification:** Chlamydiaceae  
**Original Source:** Swine intestine, feces, and diarrhea fluid  
**Depositor:** J Storz

## 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

**Medium:**  
Special Maintenance Medium (SMM): EMEM (ATCC® 30-2003) + 10% prescreened FBS + 10 mM HEPES (Gibco 15630) + 2 µg/ml Cycloheximide (SIGMA C4859)

## Growth Conditions

**Temperature:** 37°C

**Recommendations for Infection:** For best results, infection should be performed on an 80-100% confluent, 24-48 hour old cellular monolayer. Sonicate seed material for 20 seconds at approximately 240W to disrupt cells. Prepare dilution of chlamydia in minimum amount of volume (e.g. 1 mL per 25 cm<sup>2</sup>). Remove cell growth medium and inoculate with disrupted material. For adsorption, centrifuge at 1500 x g at 25°C for 1 hour. End adsorption by adding agent growth medium.

**Incubation:** Incubate infected culture for 72 hours at 37°C in a humidified 5% CO<sub>2</sub> atmosphere.

**Preservation:** Perform slow controlled rate freeze.

## Comments

Cytoplasmic, iodine-positive inclusions in infected L or BGMk cells, elementary bodies in Gimenez-stained impression smears from infected yolk sacs of chicken embryos - biovar 5 and serovar 5 of animal chlamydiae - MOMP gene sequences of *Chlamydia trachomatis* - proposed for classification as *Chlamydia suis* sp. nov.

## References

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

## Key Abbreviations

EMEM, Eagle's Minimum Essential Medium (ATCC® 30-2003)  
Prescreened FBS, Fetal bovine serum screened for *Chlamydia* inhibition due to antibody presence  
g, acceleration due to gravity  
HEPES, N-(2-Hydroxyethyl)piperazine-N'-(2-ethanesulfonic acid)  
SMM, Special maintenance medium

## 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



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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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