



Product Sheet

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

Please read this FIRST

Storage Temp.
Vapor phase of liquid nitrogen

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
PO Box 1549
Manassas, VA 20108 USA
www.atcc.org

800.638.6597 or 703.365.2700
Fax: 703.365.2750
Email: Tech@atcc.org

Or contact your local distributor

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 cm²). 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% CO₂ 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.

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



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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.

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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

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

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