



***Chlamydia suis* Everett et al.**

VR-1474™

Description

Strain designation: S45 (porcine isolate)

Deposited As: *Chlamydia suis* Everett et al.

Type strain: Yes

Storage Conditions

Product format: Frozen

Storage conditions: Vapor phase of liquid nitrogen

Intended Use

This product is intended for laboratory research use only. It is not intended for any animal or human therapeutic use, any human or animal consumption, or any diagnostic use.

BSL 2

ATCC determines the biosafety level of a material based on our risk assessment as guided by the current edition of *Biosafety in Microbiological and Biomedical Laboratories (BMBL)*, U.S. Department of Health and Human Services. It is your responsibility to understand the hazards associated with the material per your organization's policies and procedures as well as any other applicable regulations as enforced by your local or national agencies.

ATCC highly recommends that appropriate personal protective equipment is always used when handling vials. For cultures that require storage in liquid nitrogen, it is important to note that some vials may leak when submersed in liquid nitrogen and will slowly fill with liquid nitrogen. Upon thawing, the conversion of the liquid nitrogen back to its gas phase may result in the vial exploding or blowing off its cap with dangerous force creating flying debris. Unless necessary, ATCC recommends that these cultures be stored in the vapor phase of liquid nitrogen rather than submersed in liquid nitrogen.

Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at www.atcc.org.

Growth Conditions

Host: HEp-2 (ATCC CCL-23)

Effects: CPE; cytoplasmic inclusions

Complete medium:

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

Temperature: 37°C

Atmosphere: 95% Air, 5% CO₂

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.

Handling Procedures

Mycoplasma contamination: Not detected

Notes

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.

Key Abbreviations: EMEM, Eagle's Minimum Essential Medium; Prescreened FBS, Fetal bovine serum screened for *Chlamydia* inhibition due to antibody presence; g, Acceleration of gravity; HEPES, N-(2-Hydroxyethyl)piperazine-N'-(2-ethanesulfonic acid); SMM, Special maintenance medium

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Chlamydia suis* Everett et al. (ATCC VR-1474)

References

References and other information relating to this material are available at www.atcc.org.

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Contact Information

ATCC

10801 University Boulevard

Manassas, VA 20110-2209

USA

US telephone: 800-638-6597

Worldwide telephone: +1-703-365-2700

Email: tech@atcc.org or contact your local distributor