



Chlamydia trachomatis

VR-1477™

Description

Chlamydia trachomatis strain TW-3 [Trachoma type C strain TW-3] is propagated in HEp-2 cells (ATCC CCL-23). This strain was isolated in Taiwan from a specimen taken from the human conjunctiva. Use this bacterium in your sexually transmitted disease research.

Strain designation: TW-3 [Trachoma type C strain TW-3]

Deposited As: *Chlamydia trachomatis* (Busacca) Rake

Type strain: No

Serotype: C

Storage Conditions

Product format: Frozen

Storage conditions: -70°C or colder

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: No CPE; requires IFA for visualization of inclusion bodies

Complete medium:

DMEM (ATCC 30-2002) + 10% prescreened FBS + 10 mM HEPES + 2 µg/mL

Cycloheximide (Sigma C-4859 Ready-Made)

Temperature: 37°C

Atmosphere: 95% Air, 5% CO₂

Recommendations for infection: 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 for Chlamydia antibodies and 1-2mg/mL cycloheximide. Incubate at 37°C for 48 to 72

hours, a 5% CO₂ in air atmosphere is recommended. Incubation: 48 to 72 hours, a 5% CO₂ in air atmosphere is recommended.

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Handling Procedures

Mycoplasma contamination: Detected

Notes

FBS used to culture *Chlamydia* must be prescreened to verify that the serum does not contain antibodies to *Chlamydia* or other factors that would interfere with growth.

ATCC VR-1477 is a TC-adapted version of the TW-3 strain that was previously grown in embryonated chicken eggs (ATCC VR-578). Biosafety level 3 facilities and practices are indicated for activities with high potential for droplet or aerosol production, CDC BMBL 4th edition.

Next-generation sequencing (NGS) at ATCC on the McCoy cell line (ATCC CRL-1696) used as the host has shown the presence of Mus Musculus mobilized endogenous polytropic provirus and Murine leukemia virus.

Key Abbreviations: °C, Degrees Celsius; CO₂, Carbon dioxide; DMEM, Dulbecco's Modified Eagle's Medium; FA, Fluorescent antibody assay; FBS, Fetal bovine serum; g, Acceleration of gravity; HEPES, N-(2-Hydroxyethyl)piperazine-N'-(2-ethanesulfonic acid)

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Chlamydia trachomatis* (ATCC VR-1477)

References

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

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