Chlamydia trachomatis

VR-886™

Description

Chlamydia trachomatis trachoma type J strain UW-36/Cx is propagated in HeLa 229 cells (ATCC CCL-2.1). This strain was isolated in 1971 from the cervix of a human patient with cervicitis in Seattle, Washington, and was deposited by the Centers for Disease Control and Prevention.

Strain designation: Trachoma type J strain UW-36/Cx
Deposited As: *Chlamydia trachomatis* (Busacca) Rake
Type strain: No
Serotype: J

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: HeLa 229 (ATCC CCL-2.1); McCoy [McCoy B] (ATCC CRL-1696)
HeLa 229 cells (ATCC CCL-2.1) are the recommended cells for propagation, but McCoy cells (ATCC CRL-1696) can be used as an alternative.
Effects: CPE; cytoplasmic inclusions
Complete medium:
DMEM (ATCC 30-2002) + 10% prescreened FBS + 10 mM HEPES + 2 µg/mL Cycloheximide (Sigma C-4859 Ready-Made)
Temperature: 36°C
Atmosphere: 95% Air, 5% CO_2
Recommendations for infection: For best results cells should be 24 to 48 hours old and 90-100% confluent.

Incubation: 3 days, a 5% CO_2 in air atmosphere is recommended

Handling Procedures

Mycoplasma contamination: Not 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.

Antigenically related to but distinct from type C. Note that activities with high potential for aerosol production require BSL 3 facilities and practices. Rapid loss in titer when stored above -70°C. Suggested protocol for propagation: Add glass beads and pulse vortex preparation for 45 seconds 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 1-2µg/mL Cycloheximide.

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; BSL, Biosafety level; CO_2, Carbon dioxide; DMEM, Dulbecco's Modified Eagle's Medium; FA, Fluorescent antibody assay; FBS, Fetal bovine serum; g, Acceleration of gravity

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Chlamydia trachomatis* (ATCC VR-886)

References

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

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