Strain: Trachoma type D strain UW-3/Cx
Classification: Chlamydiaceae, Chlamydia
Original Source: Human cervix, asymptomatic
Depositor: SP Wang

Refer to the Certificate of Analysis for batch-specific test results.

Propagation

Propagation Host:
McCoy cells (ATCC® CRL-1696™)

Effect on Host:
CPE, intracellular inclusion bodies

Medium:
DMEM (ATCC® 30-2002™) + 10% prescreened FBS + 10 mM HEPES + 2 µg/mL Cycloheximide (Sigma C-4859 Ready-Made)

Growth Conditions
Temperature: 36°C

Recommendations For Infection:
For best results cells should be 24 to 48 hours old and 90-100% confluent.

Incubation: 3 days, 5% CO₂ in air atmosphere is recommended

Comments
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.

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 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 1-2 µg/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.

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

Key Abbreviations
°C (C), degree Celsius
CO₂ (CO2), carbon dioxide
CPE, cytopathic effect
DMEM, Dulbecco's minimum essential medium
g, acceleration due to gravity
HEPES, N-(2-Hydroxyethyl)piperazine-N’-(2-ethanesulfonic acid)
McCoy, mouse line susceptible to Chlamydia
rpm, revolutions per minute

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.

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