Chlamydia trachomatis

VR-571B™

Description

Chlamydia trachomatis Trachoma type A strain HAR-13 [strain Har 13] is propagated in McCoy [McCoy B] cells (ATCC CRL-1696). This strain was isolated from the conjunctiva of a 4-year-old child with trachoma and was deposited by the Centers for Disease Control and Prevention.

Strain designation: Trachoma type A strain HAR-13 [strain Har 13]
Deposited As: Trachoma serotype a
Type strain: Yes
Serotype: A

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: McCoy [McCoy B] (ATCC CRL-1696)
Host Range: McCoy cells (ATCC CRL-1696) Chicken embryo, yolk sac; anti-metabolite treated L-929 cells (ATCC CCL-1); HeLa 229 cells (ATCC CCL-2.1)
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

Note that activities with high potential for aerosol production require BSL 3 facilities and practices. This preparation has tested positive for mycoplasma contamination.
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 or pretested against having Chlamydia antibodies and 2µg/mL cycloheximide. Incubate at 36°C for 3 days.
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; CO_2, Carbon dioxide; CDC, Centers for Disease Control and Prevention; DMEM, Dulbecco's Modified Eagle's Medium; FBS, Fetal bovine serum; HeLa, Human cervical carcinoma cells; HEPES, N-(2-Hydroxyethyl)piperazine-N'-(2-ethanesulfonic acid); TCID[50], Median tissue culture infective dose

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Chlamydia trachomatis* (ATCC VR-571B)

References

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

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