



Chlamydia trachomatis Serovar Ba

VR-347™

Description

Chlamydia trachomatis Serovar Ba strain Apache-2 is propagated in McCoy [McCoy B] cells (ATCC CRL-1696). This strain was isolated from the eye of a child from the Apache tribe in San Carlos, Arizona. This product has applications in sexually transmitted disease and trachoma research.

Strain designation: Apache-2

Deposited As: Trachoma serotype ba

Type strain: No

Serotype: Ba

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

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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)

Effects: CPE; cytoplasmic inclusions

Complete medium:

Special Maintenance Medium (SMM): DMEM (ATCC 30-2002) + 10% prescreened FBS + 10 mM HEPES (Gibco 15630) + 2 µg/mL Cycloheximide (Sigma C4859)

Temperature: 36°C

Atmosphere: 95% Air, 5% CO₂

Recommendations for infection: For best results, infection should be performed on a 80-100% confluent, 24-48 hour old cellular monolayer. Sonicate seed material for 20

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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 36°C in a humidified 5% CO₂ atmosphere.

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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. 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: DMEM, Dulbecco's Modified Eagle's Medium; FBS, Fetal bovine serum; 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 trachomatis* Serovar Ba (ATCC VR-347)

References

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

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Revision

This information on this document was last updated on 2022-10-22

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