Chlamydia pneumoniae Grayston et al.

VR-1310™

Description

Chlamydia pneumoniae strain CWL-029 is propagated in HEp-2 cells (ATCC CCL-23). It was isolated from the throat swab of a pneumonia patient and deposited by the Centers for Disease Control and Prevention. This strain can be used in respiratory disease research.

Strain designation: CWL-029
Deposited As: *Chlamydia pneumoniae*, strain TWAR (CDC/CWL-029)
Type strain: No
Patent depository: This material was deposited with the ATCC Patent Depository to fulfill U.S. or international patent requirements. This material may not have been produced or characterized by ATCC. As an International Depository Authority (IDA) for patent deposits, ATCC is required to complete viability testing only at time of initial deposit of patent material. Patent deposits are made available on behalf of the Depositor when the pertinent U.S. or international patent is issued, but material may not be used to infringe the patent claims.
Technical information: ATCC Technical Services does not have technical information on patent deposits that are not produced or characterized by ATCC. Additional information can be found in the corresponding patent available from the patent holder or with the U.S. and/or international patent office.

Storage Conditions

Product format: Frozen
Storage conditions: Vapor phase of liquid nitrogen

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.

Activities with high potential for aerosol production requires Biosafety Level 3 facilities and practices.

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: CPE; cytoplasmic inclusions
Complete medium:
Special Maintenance Medium (SMM): DMEM (ATCC 30-2002) + 10% FBS (ATCC 30-2020) + 10 mM HEPES (Gibco 15630) + 2 µg/mL Cycloheximide (SIGMA C4859)
Temperature: 35°C
Atmosphere: 95% Air, 5% CO_2
Recommendations for infection: For best results, infection should be performed on an 80-100% confluent, 24-48 hour old cellular monolayer.Sonicate seed material for 20 seconds at approximately 240W to disrupt cells. Prepare dilution of chlamydia in minimum amount of volume (e.g. 1 mL per 25 cm^2). 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 35°C in a humidified 5% CO_2 atmosphere.

Handling Procedures

Mycoplasma contamination: Not detected

Notes

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); HEp-2, Human laryngeal tumor cells; 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 pneumoniae* Grayston et al. (ATCC VR-1310)

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 2024-08-23

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