



# *Chlamydia pneumoniae* Grayston et al.

VR-1360™

## Description

*Chlamydia pneumoniae* strain CM-1 was isolated from the sputum of a pneumonia patient in Georgia, USA. This bacterial strain is propagated in HEp-2 cells (ATCC CCL-23) and has applications in respiratory disease research.

**Strain designation:** CM-1

**Deposited As:** *Chlamydia pneumoniae* Grayston et al.

**Type strain:** No

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## Storage Conditions

**Product format:** Frozen

**Storage conditions:** -70°C or colder

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## 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.

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## 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.

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## Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at [www.atcc.org](http://www.atcc.org).

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## Growth Conditions

**Host:** HEp-2 (ATCC CCL-23)

**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

**Recommendations for infection:** Plate cells 24 hours prior to infection and infect when cultures are 80-95% confluent. Vortex material with 1mm glass beads to disrupt cells. Remove cell growth medium and inoculate with disrupted material. Centrifuge at 1500 x g at 25°C for 1 hour. End adsorption by adding agent growth medium.

**Incubation:** 3 days

## Handling Procedures

**Mycoplasma contamination:** Not detected

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## Notes

**Key Abbreviations:** CO<sub>2</sub>, Carbon dioxide; °C, Degrees Celsius; DMEM, Dulbecco's Modified Eagle's Medium; FBS, Fetal bovine serum; HEPES, N-(2-Hydroxyethyl)piperazine-N'-(2-ethanesulfonic acid)

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## 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-1360)

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## References

References and other information relating to this material are available at [www.atcc.org](http://www.atcc.org).

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## **Revision**

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