



# *Mycoplasma hominis* (Freundt) Edward

23114™

## Description

*Mycoplasma hominis* strain PG21 [H 50, NCTC 10111] is a whole-genome sequenced bacterial type strain isolated from a rectal swab. This strain produces arginine deiminase.

**Strain designation:** PG21 [H 50, NCTC 10111]

**Deposited As:** *Mycoplasma hominis* (Freundt) Edward

**Type strain:** Yes

**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.

**Serotype:** 5

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## Storage Conditions

**Product format:** Freeze-dried

**Storage conditions:** 2°C to 8°C

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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**

**Medium:**

ATCC Medium 243: Mycoplasma medium

**Temperature:** 37°C

**Atmosphere:** Broth: Aerobic; Plates: 5% CO<sub>2</sub>

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## Handling Procedures

1. Follow instructions as suggested for the culturing of Mollicutes:

### PROCEDURES FOR PROPAGATING MOLLICUTES:

- a. Open the vial according to the enclosed instructions.
  - b. Using a Pasteur or 1.0 mL pipette, withdraw approximately 0.5 to 1.0 mL from a tube containing 2.5 mL. Rehydrate the pellet.
  - c. Aseptically transfer this aliquot back into the tube. Mix well.
  - d. Make serial dilutions by transferring 0.5 mL from the original tube to a tube containing 2.25 mL. Repeat process by transferring 0.25 mL from the second to a third tube, etc. Dilutions are important, not only for titration purposes, but also to keep culture in varying stages of growth. Many strains will die out rapidly once acid or alkaline conditions are reached. It is recommended to prepare several dilutions from the initial tube as the cryoprotectant used in the freeze drying process often inhibits growth.
  - e. Use an uninoculated tube of broth to serve as a control.
  - f. Plates may be inoculated to check colonial morphology. You can also spot each dilution on the surface of plate (4 or more/plate) to determine the number of colony-forming units. However, not all strains do well on solid medium.
  - g. Incubate all tubes and plates under the recommended conditions and appropriate temperature. The time necessary for growth will vary from strain to strain. Growth on plates generally requires additional incubation.
  - h. Depending on the medium used, growth will be indicated by increased turbidity, a color change or both.
2. Tubes may be incubated aerobically, but plates are incubated under 5% CO<sub>2</sub>. The incubation temperature is 37°C.
  3. Growth is usually inhibited in the first few dilution tubes. Turbidity the third

tube and colonies on solid medium will appear in within 3-7 days.

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## Notes

Store vials at freezer temperature until ready to use.

Purified genomic DNA of this strain is available as ATCC® 23114D™.

Additional information on this culture is available on the ATCC® web site at [www.atcc.org](http://www.atcc.org).

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## Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Mycoplasma hominis* (Freundt) Edward (ATCC 23114)

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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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