Mycoplasmoides genitalium (Tully et al.) Gupta et al.

33530™

Description

Mycoplasmoides genitalium strain G37 is a bacterial type strain that was isolated from the urethra of a human male with non-gonococcal urethritis. This bacterial culture has applications in infectious disease and sexually transmitted disease research. This culture produces a surface attachment protein.

Strain designation: G37
Deposited As: *Mycoplasma genitalium* Tully et al.
Type strain: Yes

Storage Conditions

Product format: Frozen
Storage conditions: -80°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

Medium:
ATCC Medium 0988: Spiroplasma medium SP-4
Temperature: 37°C
Atmosphere: Aerobic

Handling Procedures

1. We recommend that you use T-flasks in the propagation of *Mycoplasmoides*

genitalium so that a larger surface area will be available for the cells to adhere to the glass or plastic surface. Approximately 10 mL of Medium #988 is placed in 25 cm^2 flasks, and 200 mL can be placed in 125 cm^2 flasks if larger amounts are desired.

2. Add an additional 5% heat-inactivated fetal bovine serum to medium #988. Open the vial according to enclosed instructions.
3. Transfer the contents of the vial to a 25 cm^2 flask.
4. Incubate the flask in a horizontal position at 37°C for 7-14 days. Note: This strain can be slow to establish growth, however subsequent transfers should grow faster once primary growth is established.
5. After the incubation period, observe the flask for flocs in the medium and for cells adhering to the bottom of the flask. Growth is also indicated by an indicator change from red to yellow.
6. To prepare the culture for subculturing and/or scaling-up to larger volumes, loosen adherent cells with a suitable, sterile scraper. Centrifuge the culture and remove the supernatant (spent growth media). Resuspend the pellet with fresh medium and place into a new 25 cm^2 flask with the appropriate volume of fresh medium.
7. Incubate the flask in a horizontal position at 37°C for 7-14 days.
8. When the medium has turned yellow, loosen adherent cells with a suitable, sterile scraper. Use a 10% inoculum when subculturing this item and/or scaling-up to larger volumes to ensure healthy growth in subcultures.

Notes

This strain requires an additional 5% heat-inactivated fetal bovine serum be added to ATCC Medium #988 to sustain growth of this strain. Growth is best acheived in T-25 flasks with 10 mL of medium and a 10% inoculum.

The depositor has suggested that the initial slow, poor adherent growth may be due to the cryoprotectant used in the freeze-drying process. Subsequent transfers show improvement in growth times.

This strain may need to have growth established first before sub-culturing.

Purified genomic DNA of this strain is available as ATCC® 33530D™.

Additional information on this culture is available on the ATCC® web site at www.atcc.org.

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Mycoplasmoides genitalium* (Tully et al.) Gupta et al. (ATCC 33530)

References

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

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