Mycoplasma genitalium Tully et al.

49898™

Description

Mycoplasma genitalium strain TW48-5G is a whole-genome sequenced bacterium that was isolated in South Carolina from a human throat.

Strain designation: TW48-5G
Deposited As: *Mycoplasma genitalium* Tully et al.
Type strain: No

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: 95% Air, 5% CO_2

Handling Procedures

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

PROCEDURES FOR PROPAGATING MOLLICUTES:

a. Allow the vial to thaw on bench top.
b. Using a Pasteur or 1.0 mL pipette, withdraw the entire contents of the

vial.

c. Aseptically transfer this aliquot back into the maintenance media tube. Mix well.
d. Make serial dilutions by transferring 0.5 mL from the original tube to a tube containing 4.5 mL. Repeat process by transferring 0.5 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 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. This strain starts to show turbidity in the first few dilution tubes after 3 to 7 days.
3. Subsequent, fresh transfers grow more rapidly than the original culture. This strain produces moderate turbidity.

Notes

This strain has been shown to not grow well on agar.

Commercially available SP4 with Glucose (Remel catalog # R112585 or R20057 or R20376) may yield the best growth.

This strain requires an additional 5% heat-inactivated fetal bovine serum for growth.

Growth is best achieved in T-Flasks.

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: *Mycoplasma genitalium* Tully et al. (ATCC 49898)

References

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

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