



Mycoplasma arginini Barile et al.

23838-TTR™

Description

Mycoplasma arginini strain G230 [NCTC 10129] is a bacterial type strain that was isolated from a mouse brain that was experimentally infected with scrapies. This titered product has applications in assay development, quality control and mycoplasma testing.

Strain designation: G230 [NCTC 10129]

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 243: Mycoplasma medium

Temperature: 37°C**Atmosphere:** Broth: Aerobic; Plates: 5% CO₂

Handling Procedures

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

PROCEDURES FOR PROPAGATING MOLLICUTES:

- a. Open the thawed vial.
- b. Make serial dilutions by transferring the entire contents of the vial to a

tube containing 4.5 mL of the appropriate broth. 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.

- c. Use an uninoculated tube of broth to serve as a control.
 - d. 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.
 - e. 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.
 - f. Depending on the medium used, growth will be indicated by increased turbidity, a color change, or both.
2. In #243 (HI+ broth), growth is indicated by increased turbidity within 24-48 hours. In #484 (PPLO broth), this strain will start to show a color change by a darkening of the medium's red color due to alkaline formation in the first few dilution tubes within 24 to 48 hours. Additional incubation will be required for growth on solid agar.
 3. Subsequent, fresh transfers will grow more rapidly than the original culture.

Notes

Alternative medium: #484 PPLO broth with additives for *Mycoplasma* (for solid medium, add Noble Agar (BD 214230)).

Broth tubes may be incubated aerobically, but plates should be under 5% CO₂.

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 arginini* Barile et al. (ATCC 23838-TTR)

References

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

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