Heliobacillus mobilis Beer-Romero and Gest

43427™

Description

Strain designation: Romero/Gest 6
Deposited As: *Heliobacillus mobilis* Beer-Romero and Gest
Type strain: Yes

Storage Conditions

Product format: Frozen

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 1

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 2694: PYE Medium for 43427
Temperature: 37°C
Atmosphere: Anaerobic

Handling Procedures

1. Sterilize the top of the Balch tube by spraying it with 70% ethanol and then flaming the top. Exchange the head space with 100% N_2.

3. When the Balch tube is ready to inoculate, allow the vial to thaw at room temperature under a gentle stream of anaerobic gas or place the vial in an anaerobic chamber

4. For inoculation, use an anaerobic (see c below) 1.0 ml syringe tipped with needle,

withdraw the entire cell suspension from the vial and transfer it to the primary broth. Plate 0.1 ml of the inoculated culture onto a non-selective medium and incubate aerobically at 37ºC. Use 0.5 ml of the inoculated culture to inoculate an additional tube of #2694 broth. Incubate the anaerobic tube at 37ºC under approximately 1000 lux light (4 to 6 inches from a 40W 120V bulb).

ANAEROBIC CONDITIONS:

a. Resazurin is a commonly used redox indicator that is pink when the redox potential is above 50 mv., and colorless when the redox potential is below 110 mv. i.e. highly reducing. Most strict anaerobes require this low redox potential for optimum growth.

b. To obtain a fully reduced medium, it is necessary that the medium be anoxic and that a reducing agent be added. Common reducing agents are sodium sulfide, cysteine, coenzyme, dithiothreitol, and titanium citrate.

c. Syringes can be made anaerobic by one of two methods.

1. Displace the dead space in the syringe with a sterile oxygen-free gas.

Notes

The cells are medium to long rods in singles and pairs. This strain will not produce colonies on agar surfaces.

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: *Heliobacillus mobilis* Beer-Romero and Gest (ATCC 43427)

References

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

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Revision

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