



Product Sheet

# *Heliobacillus mobilis* (ATCC® 43427™)

Please read this FIRST



## Intended Use

This product is intended for research use only. It is not intended for any animal or human therapeutic or diagnostic use.

## Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: *Heliobacillus mobilis* (ATCC® 43427™)

## Description

**Designation:** Romero/Gest 6

**Deposited Name:** *Heliobacillus mobilis* Beer-Romero and Gest

## Propagation

### Medium

ATCC® Medium 2694: PYE Medium for 43427

### Growth Conditions

**Temperature:** 37.0°C

**Atmosphere:** Anaerobic

### Propagation Procedure

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<sub>2</sub>.
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 37°C. Use 0.5 ml of the inoculated culture to inoculate an additional tube of #2694 broth. Incubate the anaerobic tube at 37°C 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](http://www.atcc.org).

## References

References and other information relating to this product are available online at [www.atcc.org](http://www.atcc.org).

## Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the current publication of the *Biosafety in Microbiological and Biomedical Laboratories* from the U.S. Department of Health and Human Services Centers for Disease Control and Prevention and National Institutes for Health.

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## Disclaimers

This product is intended for laboratory research purposes only. It is not intended for use in humans.

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**(ATCC® 43427™)**

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

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