



Product Sheet

# Moorella thermoacetica (ATCC® 49707™)

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: *Moorella thermoacetica* (ATCC® 49707™)

## Description

**Designation:** Improved/mutant strain

**Deposited Name:** *Clostridium thermoaceticum* Fontaine et al.

## Propagation

### Medium

ATCC® Medium 1053: Reinforced Clostridial medium (Oxoid CM149)

### Growth Conditions

**Temperature:** 60.0°C

**Atmosphere:** Anaerobic

### Propagation Procedure

1. Open vial according to enclosed instructions.
2. Under anaerobic conditions, withdraw 0.5 ml of #1053 from a single test tube (5 to 6 ml) and rehydrate the vial contents.
3. Aseptically transfer this aliquot back into the broth tube. Additional tubes may be inoculated with 0.5 ml each from the suspension. A slant of #1053 may also be inoculated with 0.2 ml. Streak several blood plates to check for colonial morphology and purity.
4. Incubate tubes under an anaerobic atmosphere at 60°C. Incubate one agar plate anaerobically for colony formation, and one aerobically for aerobic contamination check.
5. Within 48 hours, growth should be evident by turbidity in the broth and by large, circular, undulate colonies on the anaerobic agar surfaces. No growth should occur on agar plates incubated aerobically.

### ANAEROBIC CONDITIONS:

Anaerobic conditions for transfer may be obtained by either of the following:

- Use of an anaerobic gas chamber, or
- Placement of test tubes under a gassing cannula system hooked to anaerobic gas.

Anaerobic conditions for incubation may be obtained by any of the following:

- Loose screw caps on test tubes in anaerobic chamber,
- Loose screw caps on test tubes in an activated anaerobic gas pack jar, or
- Use of sterile butyl rubber stoppers on test tubes so that an anaerobic gas headspace is retained.

## Notes

Colonies on #260 agar are raised, translucent, round, and darker in the center of the colony.

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

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Please see the enclosed Material Transfer Agreement (MTA) for further details regarding the use of this product. The MTA is also available on our Web site at [www.atcc.org](http://www.atcc.org)

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

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