



Product Sheet

# *Helicobacter hepaticus* (ATCC® 51449™)

Please read this **FIRST**



Storage Temp.  
**Frozen: -80°C or colder**  
**Freeze-Dried: 2°C to 8°C**  
**Live Culture: See Propagation Section**

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Biosafety Level  
**2**

## 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: *Helicobacter hepaticus* (ATCC® 51449™)

American Type Culture Collection  
PO Box 1549  
Manassas, VA 20108 USA  
[www.atcc.org](http://www.atcc.org)

800.638.6597 or 703.365.2700  
Fax: 703.365.2750  
Email: [Tech@atcc.org](mailto:Tech@atcc.org)

Or contact your local distributor

## Description

Deposited Name: *Helicobacter hepaticus*

## Propagation

### Medium

ATCC® Medium 1705: Brucella Agar/Broth w/ 5% Defibrinated Sheep Blood

### Growth Conditions

**Temperature:** 37°C

**Atmosphere:** Microaerophilic, 3-5% O<sub>2</sub>, 10% CO<sub>2</sub>

### Propagation Procedure

1. Open vial according to enclosed instructions.
2. Using a single tube of #1705 broth (5 to 6 mL), withdraw approximately 0.5 to 1.0 mL with a Pasteur or 1.0 mL pipette. Rehydrate the entire pellet.
3. Aseptically transfer this aliquot back into the #1705 broth tube. Mix well. This broth can now be used to inoculate an agar slant(s), plate(s), additional broth tube(s), or the preferred biphasic culture.
4. To obtain a biphasic culture, add 0.6 mL of the suspension to a medium #1705 slant. The resulting pool at the bottom of the slant is where the best, most rapid growth will occur.
5. Incubate at 37°C under microaerophilic conditions using an anaerobe jar with an active catalyst and a microaerophilic gas generator pack, or other acceptable method, to obtain microaerophilic conditions. Incubate slant with cap loose.
6. Within 3 days of incubation, good growth should be obtained in the broth pool at the bottom of the slant. Further subcultures can be made using broth pool as the inoculum source.

## Notes

Colonies on #1705 agar are smallest, entire, glistening, circular, smooth, and flat.

This organism requires moist conditions for best growth. Growth at the broth/agar interface of the biphasic slant should occur within 3 days, but little turbidity will be seen. To observe growth, examine a wet mount of the broth under phase microscopy.

The cells do not Gram stain well using traditional procedures. For best results, use a basic fuchsin counterstain in place of the safranin.

Once good growth is obtained, transfer or freeze the culture. Adding an equal amount of 20% sterile glycerol to pooled broth from several biphasic slants, followed by freezing in liquid nitrogen or "ultra-low temperature" freezer is recommended.

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: 2

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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longer valid.

### **Disclaimers**

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