ATCC

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

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

800.638.6597 or 703.365.2700
Fax: 703.365.2750
Email: 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_2, 10% CO_2

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 in 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.

References

References and other information relating to this product are available online at 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.

ATCC Warranty

ATCC® products are warranted for 30 days from the date of shipment, and this warranty is valid only if the product is stored and handled according to the information included on this product information sheet. If the ATCC® product is a living cell or microorganism, ATCC lists the media formulation that has been found to be effective for this product. While other, unspecified media may also produce satisfactory results, a change in media or the absence of an additive from the ATCC recommended media may affect recovery, growth and/or function of this product. If an alternative medium formulation is used, the ATCC warranty for viability is no

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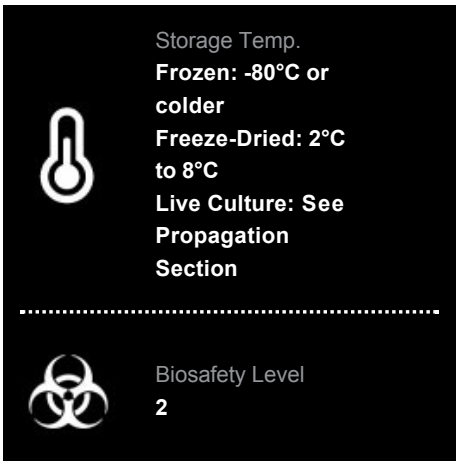

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longer valid.

Disclaimers

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

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