ATCC

Product Sheet

Helicobacter hepaticus (ATCC® 51448™)

Please read this FIRST

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® 51448™)

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

Designation: Hh-2 [CCUG 33637, CIP 104100, LMG 16316]

Propagation

Medium
ATCC® Medium 1705: Brucella broth with 5% defibrinated sheep blood

Growth Conditions
Temperature: 37°C
Atmosphere: Microaerophilic (3-5% O_2-10% CO_2)

Propagation Procedure
1. This organism is shipped frozen on dry ice. Just prior to use, thaw vial in water at approximately 37ºC. When thawed, a drop of the suspension may be used to do an immediate wet mount to observe the unique morphology of this organism and verify its viability by checking for motility.
2. Aseptically transfer the thawed suspension into a #1705 broth tube (5-6 ml). This broth can now be used to inoculate an agar slant(s), plate(s), additional broth tube(s), or the preferred biphasic culture.
2.
3. 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.
4. Incubate at 37ºC 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.
5. Within 5 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.
5.

Notes

This organism requires moist conditions for best growth. No growth was observed on agar. Growth at the broth/agar interface of the biphasic slant should occur within 5 days, but little turbidity will be seen. To observe growth, examine a wet mount of the broth under phase microscopy. This organism is a very small, thin, long, spiral Gram negative bacillus with wriggling motility.

Growth on agar takes longer than the biphasic culture. Colonies are flat with spreading over the surface of the agar. It is essential to use fresh, moist plates.

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

The viability of ATCC® products is warranted for 30 days from the date of shipment, and is valid only if the product is stored and cultured according to the information included on this product information sheet. ATCC lists the media formulation that has been found to be effective for this strain. 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 strain. If an alternative medium

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formulation is used, the ATCC warranty for viability is no 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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