ATCC

Product Sheet

Helicobacter pylori (ATCC® 43504™)

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 pylori* (ATCC® 43504™)

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: NCTC 11637 [JCM 7653, RPH 13487]
Deposited Name: *Campylobacter pyloridis* Marshall et al.
Product Description: Type strain. Quality control strain for API products. CLSI control strain for susceptibility testing.

Propagation

Medium
ATCC® Medium 18: Trypticase Soy Agar/Broth
ATCC® Medium 260: Trypticase soy agar/broth with 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 in dry ice and should be stored in vapor phase liquid nitrogen until ready for use. Just prior to use, thaw vial in water bath at approximately 37°C with gentle agitation until no ice remains. 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 entire thawed suspension into a fresh #18 broth (3-5 mL). Mix well. This suspension can now be used to inoculate agar slant(s), plate(s), or the preferred biphasic culture. Two #260 plates should be inoculated, one for microaerophilic growth and the second for aerobic growth. No growth should occur on the plate incubated aerobically.
3. To obtain a biphasic culture, add 0.6 mL of the suspension to a #260 slant. The resulting pool at the bottom of the slant is where the best, most rapid growth will occur.
4. 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 tubes with caps loose.
5. Within 3 days, good growth should be obtained in the broth pool at the bottom of the slant. Additional incubation may be required for colonies to appear on the agar plate. Further subcultures can be made using the broth pool as the inoculum source. Subcultures to biphasic cultures will require only 24 to 48 hours of incubation for good growth.

Notes

Colonies on #260 agar are small, entire, glistening, circular, smooth, and raised.
This is a slowing organism that requires moist conditions for best growth. Growth at the broth/agar interface of the biphasic slant should occur within 3 days, but only light turbidity will be seen. To observe growth, examine a wet mount of the broth under phase microscopy. This organism displays motile corkscrew rods arranged singles.
Growth on agar takes longer than in the biphasic culture. 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 "ultralow temperature" freezer is recommended.
Purified genomic DNA of this strain is available as ATCC® 43504D-5™.
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.

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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 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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