ATCC

Product Sheet

Campylobacter hominis (ATCC® BAA-381™)

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: *Campylobacter hominis* (ATCC® BAA-381™)

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: LMG 19568 [CH001A, NCTC 13146]
Deposited Name: *Campylobacter hominis* Lawson et al.
Product Description: Type strain.

Propagation

Medium
ATCC® Medium 1645: Trypticase soy agar with 5% defibrinated sheep blood, formate and fumarate
ATCC® Medium 260: Trypticase soy agar/broth with defibrinated sheep blood

Growth Conditions
Temperature: 37°C
Atmosphere: Anaerobic gas mixture, 80% N_2-10% CO_2-10% H_2

Propagation Procedure

1. Add Formate/Fumarate Supplement to all media to be used as described in the notes section.
2. Open vial according to enclosed instructions.
3. Under anaerobic conditions, withdraw 0.5 mL from a single tube of #1115 broth and rehydrate the pellet.
4. Aseptically transfer this aliquot back into the broth tube. Additional broth can be inoculated using 0.2 mL of this cell suspension per tube. A slant and plate of Medium #1645 may also be inoculated with 0.1 mL each of the cell suspension. An aerobic blood plate may also be streaked to check for purity.
5. Incubate the broth tubes, slants, and plates at 37°C under anaerobic conditions. You may use an anaerobe jar with catalyst and gas generator pack or other suitable means of producing anaerobic conditions. Be sure caps are loose to facilitate gas exchange. Incubate aerobic blood plate aerobically at 37°C.
6. Initially, 7 days of incubation are required before visible growth is evident. No growth should be seen on the aerobic plate.

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

- Use of an anaerobic gas chamber.
- 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.
- Use of sterile butyl rubber stoppers on test tubes so that an anaerobic gas headspace is retained.

Notes

*Formate/Fumarate Supplement:
Prepare a solution containing sodium formate and fumaric acid at a concentration of 6% each in distilled water; adjust pH to 7.0, and filter sterilize.

Prior to inoculation, add 0.25 mL of this solution to each 5.0 mL broth tube. Also add 0.25 mL to each agar slant and agar plate. Use a loop to spread the Formate and Fumarate solution over the agar surface of the plate until dry, and then inoculate with the organism.

Colonies on #260 agar are minute, circular, entire and flat.

This culture may grow well biphasically. To achieve this, inoculate a slant with 0.5 mL of cell suspension. Cells will grow in the liquid portion. To observe growth, examine a wet mount of the broth under phase microscopy. The organism is a thread-like, curved to longer spiral, Gram negative non-motile rod. The cells do not Gram stain well using traditional procedures. To obtain the best results, use a basic fuchsin counterstain in place of the safranin.

Storage at liquid nitrogen temperatures, with 10% glycerol as the cryoprotectant, is recommended for long-term preservation.
Additional information on this culture is available on the ATCC® web site at www.atcc.org.

References

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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

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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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